Documents of the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the MF band in Region 1

(Geneva, 1985)

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RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Document 101-F/E/S
11 mars 1985
Original: français/anglais/espagnol

COMMISSION 5
COMMITTEE 5
COMISION 5

PROJET DE PLAN D'ASSIGNATIONS DE FREQUENCE AUX STATIONS DU SERVICE MOBILE MARITIME DE LA REGION 1 DANS LES BANDES 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz 1 635 - 1 800 kHz et 2 045 -2 160 kHz

DRAFT FREQUENCY ASSIGNMENT PLAN FOR STATIONS IN THE MARITIME MOBILE SERVICE IN REGION 1 IN THE BANDS 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

PROYECTO DE PLAN DE ASIGNACIONES DE FRECUENCIA A ESTACIONES DEL SERVICIO MOVIL MARITIMO DE LA REGION 1 EN LAS BANDAS 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz 1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Annexe/Annex/Anexo: 1

Renseignements inclus dans les colonnes du Plan (Région 1)
pour le service mobile maritime dans
les bandes 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz,
1 635 - 1 800 kHz et 2 045 - 2 160 kHz

Colonne

0. Numéro de série de l'IFRB

1. Fréquence assignée (kHz)/(fréquence porteuse (kHz) pour J3E)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station côtière d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude (degrés et minutes) de la station d'émission

7. Zone de service:

   7A: Longitude et latitude (degrés et minutes) du centre de la zone de service et rayon (km) de la zone de service circulaire; ou

   7B: Longitude et latitude (degrés et minutes) de 6 points au maximum délimitant la zone de service.

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance d'émission nécessaire

   10A: puissance apparente rayonnée sur une antenne verticale courte (p.a.r.v.) (dBW)
   (valeur calculée sur la base du champ minimum à protéger et de la portée de service dans les conditions de propagation par onde de sol)

   10B: puissance fournie à la ligne d'alimentation de l'antenne (dBW)
   (valeur calculée: p.a.r.v. + 7 dB (pour la bande des 500 kHz)
   p.a.r.v. + 4 dB (pour la bande des 2 MHz))

11. Caractéristiques de l'antenne

   11A: azimut du rayonnement maximum (ND pour les antennes non directives) (degrés)

   11B: gain maximum de l'antenne (dB)

   11C: angle d'ouverture du lobe principal (degrés)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

Information included in the columns of the Plan (Region 1) for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Column

0. IFRB Serial No.

1. Assigned frequency (kHz)/(carrier frequency (kHz) for J3E)

2. Channel number

3. Country symbol

4. Transmitting coast station name

5. Symbol of the geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Service area:

7a) Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area; or

7b) Longitude and latitude (degrees and minutes) of (maximum six) points limiting the service area

8. Nature of service

9. Necessary bandwidth and class of emission

10. Necessary transmitting power:

10A: effective monopole radiated power (e.m.r.p.) (dBW)

(calculated value on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

10B: power supplied to the antenna transmission line (dBW)
(calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
e.m.r.p. + 4 dB (for the 2 MHz band)

11. Antenna characteristics

11A: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

11B: maximum antenna gain (dB)

11C: angular width of the main lobe (degrees)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Información incluida en las columnas del Plan (Región 1) para el servicio móvil marítimo en las bandas 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)/(frecuencia portadora (kHz) para emisión J3E)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación costera transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6 Longitud y latitud (grados y minutos) de la estación transmisora

7. Zona de servicio

   7A: longitud y latitud (grados y minutos) del centro de la zona de servicio y radio (km) de la zona de servicio circular; o

   7B: longitud y latitud (grados y minutos) de puntos (6 como máximo) que limiten la zona de servicio

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión

10. Potencia de transmisión necesaria

   10A: potencia radiada aparente referida a una antena vertical corta (p.r.a.v.) (dBW)
   (valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

   10B: potencia suministrada a la línea de transmisión de la antena (dBW)
   (valor calculado: p.r.a.v. + 7 dB (para bandas de 500 kHz)
   p.r.a.v. + 4 dB (para bandas de 2 MHz))

11. Características de la antena

   11A: azimut de radiación máxima (ND para antena no direccional) (grados)

   11B: ganancia máxima de la antena (dB)

   11C: anchura angular del lóbulo principal (grados)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
667	419.50		I	CAGLIARI	I	009E07 39N15	009E07 39N15 250		CP 304HF1B			ND			0000 2400	
663	421.50		I	BARI	I	017E25 40N26	017E25 40N26 250		CP 304HF1B			ND			0000 2400	
664	422.00		I	BARI	I	017E25 40N26	017E25 40N26 250		CP 304HF1B			ND			0000 2400	
963	422.00		URS	SEVASTOPOL	UKR	033E32 44N34	033E32 44N34 200		CO 100HA1A			ND			0000 2400	
650	423.50		I	NAPOLI	I	014E14 40N42	014E14 40N42 380		CO 304HF1B			ND			0000 2400	
665	424.00		I	CAGLIARI	I	009E07 39N15	009E07 39N15 250		CP 304HF1B			ND			0000 2400	
1378	428.50		URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46 350		CP 100HA1A			ND			0000 2400	
641	430.50		I	ROMA	I	012E31 41N48	012E31 41N48 250		CP 100HA1A			ND			0000 2400	
642	431.00		I	ROMA	I	012E31 41N48	012E31 41N48 250		CP 100HA1A			ND			0000 2400	
638	432.00		I	NAPOLI	I	014E14 40N50	014E14 40N50 250		CP 100HA1A			ND			0000 2400	
350	433.00		DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 1000		CP 100HA1A			ND			0000 2400	
672	434.00		I	NAPOLI	I	014E14 40N50	014E14 40N50 250		CP 304HF1B			ND			0000 2400	
657	434.50		I	ANCONA	I	013E28 43N36	013E28 43N36 250		CP 304HF1B			ND			0000 2400	
673	434.50		I	NAPOLI	I	014E14 40N50	014E14 40N50 250		CP 304HF1B			ND			0000 2400	
658	435.00		I	ANCONA	I	013E28 43N36	013E28 43N36 250		CP 304HF1B			ND			0000 2400	
674	435.00		I	NAPOLI	I	014E14 40N50	014E14 40N50 250		CP 304HF1B			ND			0000 2400	
926	435.00		URS	KERTCH	UKR	036E28 45N22	036E28 45N22 350		CO 100HA1A			ND			0000 2400	
1012	435.00		URS	ODESSA	UKR	030E45 46N29	030E45 46N29 350		CO 100HA1A			ND			0000 2400	
506	435.50		E	BAGUR RADIO	E	003E13 41N58	003E13 41N58 555		CP 304HF1BCN			ND			0000 2400	
2558	435.50		EGY	KOSSEIR RADIO	EGY	034E17 26N06	034E17 26N06 500		CP 500HA1AA			ND			0400 2200	
2228	435.50		GAB	LIBREVILLE	GAB	009E26 00N25	009E26 00N25 500		CP 100HA1A			ND			0600 1800	
2009	435.50		GRC	KERKYRA	GRC	019E54 39N37	019E54 39N37 370		CP 100HA1AAN			ND			0000 2400	
617	435.50		I	TRAPANI	I	012E31 38N01	012E31 38N01 80		CV 100HA1A			ND			0800 1700	
899	435.50		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01		CR 2K10A2AAN			ND			0000 2400	
2277	435.50		MOZ	MAPUTO RADIONAVAL	MOZ	032E34 25S50	032E34 25S50 500		CO 100HA1A			ND			0000 2400	
2578	435.50		POR	LAGES	AZR	027W06 38N46	027W06 38N46 1500		CO 100HA1A			ND			0000 2400	
580	435.50		POR	LISBOA	POR	009W14 38N44	009W14 38N44 400		CP 100HA1AAN			ND			0000 2400	
360	435.50		S	KARLSKRONA RADIO	S	015E33 56N11	015E33 56N11 200		CP 100HA1A			ND			0000 2400	
2825	435.50		TRC	TRISTANDACUNHA	TRC	012W19 35S03	012W19 35S03 1000		CO 100HA1A			ND			0600 1800	
982	435.50		URS	KHERSON	UKR	032E34 46N39	032E34 46N39 200		CO 100HA1A			ND			0000 2400	
1231	435.50		URS	BAKU	URS	049E45 40N20	049E45 40N20 350		OT 100HA1A			ND			0000 2400	
1086	435.50		URS	GURIEV	URS	051E55 47N03	051E55 47N03 200		CO 100HA1A			ND			0000 2400	
1368	435.50		URS	KANDALAKCHA	URS	032E29 67N10	032E29 67N10 200		CP 100HA1A			ND			0000 2400	
1346	435.50		URS	NARIAN-MAR	URS	053E00 67N39	053E00 67N39 350		CO 100HA1A			ND			0000 2400	
2826	435.50		YEM	HODEIDAH	YEM	042E54 14N55	042E54 14N55 1800		CP 2K10A2B			ND			0000 2400	
2174	436.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06 800		CP 100HA1A			ND			0000 2400	
2146	436.00		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32 900		CP 100HA1A			ND			0000 2400	
1906	436.00		ARS	JEDDAHRADIO	ARS	039E10 21N23	039E10 21N23 700		CP 100HA1AAN			ND			0000 2400	
1972	436.00		BUL	BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO 100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2035	436.00		DNK	ROENNE	DNK	014E53 55N07	014E53 55N07 400		CO	100HA1A		ND			0000 2400	
1824	436.00		F	TOULON	F	006E04 43N08	001W00 37N35 012E30 37N35 012E30 41N25 007E30 43N45 002E50 43N10		CO	304HF1BBN		ND			0000 2400	
88	436.00		G	CULLERCOATS RADIO	G	001W28 55N04	001W28 55N04 320		CP	304HF1BCN		ND			0000 2400	
2539	436.00		I	MAZARA VALLO	I	012E34 37N38	012E34 37N38 350		CP	304HF1B		ND			0000 2400	
2894	436.00		LBY	TOBRUK	LBY	023E59 32N02	023E59 32N02 700		CV	100HA1A		ND			0000 2400	
1591	436.00		MDG	ANTALAHA	MDG	050E16 14S53	050E16 14S53 350		CP	100HA1A		ND			0000 2400	
1625	436.00		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51 500		CP	100HA1AAN		ND			0000 2400	
1667	436.00		NOR	BJOERNOEYA	NOR	019E01 74N31	019E01 74N31 370		CP	100HA1A		ND			0000 2400	
1658	436.00		NOR	JAN MAYEN	NOR	008W40 70N57	008W40 70N57 370		CP	100HA1A		ND			0000 2400	
602	436.00		POR	S MIGUEL	AZR	025W39 37N45	025W39 37N45 400		CP	100HA1AAN		ND			0000 2400	
377	436.00		S	HAERNOESAND RADIO	S	021E36 64N28	021E36 64N28 500		CP	100HA1A		ND			0000 2400	
1250	436.00		URS	FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30 200		CP	100HA1A		ND			0000 2400	
1259	436.00		URS	GURIEV	URS	051E55 47N03	051E55 47N03 200		CP	100HA1A		ND			0000 2400	
1361	436.00		URS	MEZEN	URS	044E17 65N51	044E17 65N51 200		CP	100HA1A		ND			0000 2400	
1303	436.00		URS	TAGANROG	URS	038E53 47N13	038E53 47N13 200		CP	100HA1A		ND			0000 2400	
2735	436.50		ALB	VLORE PT RADIO	ALB	019E29 40N27	019E29 40N27 400		CP	100HA1AAN		ND			0000 2400	
2159	436.50		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46 1200		CP	340HF1B		ND			0000 2400	
2664	436.50		CME	CAMPO	CME	009E51 02N22	009E51 02N22 400		OT	100HA1A		ND			0700 1900	
2845	436.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44 1000		CP	100HA1A		ND			0000 2400	
2065	436.50		F	ARCACHON	F	001W10 44N39	001W10 44N39 1200		CP	304HF1B		ND			0000 2400	
1814	436.50		F	DZAOUDZI	MYT	045E17 12S48	045E17 12S48 400		CP	304HF1B		ND			0000 2400	
2618	436.50		KEN	MOMBASA RADIO	KEN	039E44 03S58	039E44 03S58 600		CP	304HF1B		ND			0000 2400	
1606	436.50		MDG	TOLIARA	MDG	043E41 23S21	043E41 23S21 500		CP	100HA1A		ND			0000 2400	
1628	436.50		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51 500		CP	2K10A2AAN		ND			0000 2400	
1681	436.50		NOR	KRISTIANSAND S	NOR	007E59 58N03	007E59 58N03 370		CO	100HA1A		ND			0000 2400	
1677	436.50		NOR	VARDOE	NOR	031E05 70N22	031E05 70N22 370		CP	100HA1A		ND			0000 2400	
601	436.50		POR	S MIGUEL	AZR	025W39 37N45	025W39 37N45 400		CP	100HA1AAN		ND			0000 2400	
608	436.50		POR	MADEIRA	MDR	016W50 32N38	016W50 32N38 400		CP	100HA1AAN		ND			0000 2400	
581	436.50		POR	LISBOA	POR	009W14 38N44	009W14 38N44 400		CP	100HA1AAN		ND			0000 2400	
2764	436.50		TUN	TUNIS RADIO 2 MDN	TUN	010E11 36N53	010E11 36N53 300		CP	100HA1A		ND			0000 2400	
990	436.50		URS	SKADOVSK	UKR	032E56 46N07	032E56 46N07 200		CO	100HA1A		ND			0000 2400	
1562	436.50		URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46 200		CO	100HA1A		ND			0000 2400	
1348	436.50		URS	NARIAN-MAR	URS	053E00 67N39	053E00 67N39 350		CO	100HA1A		ND			0000 2400	
1363	436.50		URS	ONEGA	URS	038E10 63N57	038E10 63N57 200		CP	100HA1A		ND			0000 2400	
1558	436.50		URS	VYBORG	URS	028E46 60N42	028E46 60N42 200		CP	100HA1A		ND			0000 2400	
904	437.00		AFS	CAPE TOWN	AFS	018E43 33S41	018E43 33S41 500		CP	100HA1AAN		ND			0000 2400	
906	437.00		AFS	DURBAN	AFS	030E48 29S48	030E48 29S48 500		CP	100HA1AAN		ND			0000 2400	
2377	437.00		AGL	LUANDA	AGL	013E14 08S47	013E14 08S47 500		CP	100HA1A		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2122	437.00		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46 1200		CP	100HA1A		ND			0000 2400	
2215	437.00		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16 500		CP	300HF1B		ND			0000 2400	
2643	437.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600		CP	304HF1B		ND			0000 2400	
2669	437.00		CME	KRIBI	CME	009E43 02N53	009E43 02N53 400		CO	100HA1A		ND			0000 2400	
2293	437.00		CVA	CITE DU VATICAN	CVA	012E27 41N55	012E27 41N55 600		OT	304HF1B		ND			0000 2400	
2801	437.00		DJI	DJIBOUTI	DJI	043E08 11N36	043E08 11N36 1000		CP	2K00A2B		ND			0000 2400	
2557	437.00		EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	029E52 31N12 500		CP	500HA1AA		ND			0000 2400	
2003	437.00		GRC	ATHINAI	GRC	023E53 38N00	023E53 38N00 370		CP	304HF1BCN		ND			0000 2400	
2916	437.00		IRQ	BASRAH	IRQ	047E47 30N33	047E47 30N33 400		CV	100HA1A		ND			0000 2400	
1746	437.00		POR	HORTA	AZR	028W38 38N32	028W38 38N32 1200		CO	304HF1B		ND			0000 2400	
1751	437.00		POR	PORTO SANTO	MDR	016W20 33N05	016W20 33N05 600		CO	304HF1B		ND			0000 2400	
2499	437.00		TUR	ZONGULDAK	TUR	031E48 41N27	031E48 41N27 250		CP	304HF1BCN		ND			0000 2400	
986	437.00		URS	KHERSON	UKR	032E34 46N39	032E34 46N39 200		CP	100HA1A		ND			0000 2400	
1182	437.00		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55 350		CO	100HA1A		ND			0000 2400	
1089	437.00		URS	KHUDAT	URS	048E39 41N38	048E39 41N38 200		CO	100HA1A		ND			0000 2400	
1404	437.00		URS	LIEPAIA	URS	021E02 56N43	021E02 56N43 350		CO	100HA1A		ND			0000 2400	
1128	437.00		URS	PICUNDA	URS	040E21 43N09	040E21 43N09 200		CO	304HF1B		ND			0000 2400	
1125	437.00		URS	SUKHUMI	URS	040E42 43N00	040E42 43N00 200		CO	100HA1A		ND			0000 2400	
2384	437.50		AGL	CABINDA	AGL	012E11 05S34	012E11 05S34 500		CP	100HA1A		ND			0000 2400	
2647	437.50		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600		CP	304HF1B		ND			0000 2400	
2674	437.50		CME	DOUALA	CME	009E43 04N01	009E43 04N01 400		CO	100HA1A		ND			0000 2400	
2792	437.50		CPV	PRAIA	CPV	023W30 14N55	023W30 14N55 300		CP	100HA1A		ND			0000 2400	
462	437.50		E	CABO PENAS RADIO	E	005W51 43N39	005W51 43N39 555		CP	304HF1BCN		ND			0000 2400	
1818	437.50		F	AJACCIO	F	008E46 41N55	001W00 37N35 012E30 41N25 002E50 43N10	012E30 37N35 007E30 43N45	CO	304HF1BBN		ND			0000 2400	
1999	437.50		GRC	ATHINAI	GRC	023E53 38N00	023E53 38N00 370		CP	100HA1AAN		ND			0000 2400	
898	437.50		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01		CR	2K10A2AAN		ND			0000 2400	
1592	437.50		MDG	ANTSERANANA	MDG	049E17 12S17	049E17 12S17 500		CP	100HA1A		ND			0000 2400	
1605	437.50		MDG	TOLIARA	MDG	043E41 23S21	043E41 23S21 500		CP	100HA1A		ND			0000 2400	
2898	437.50		MTN	NOUADHIBOU RADIO	MTN	017W03 20N54	017W03 20N54 600		CP	304HF1B		ND			0800 1800	
1670	437.50		NOR	AALESUND	NOR	006E12 62N28	006E12 62N28 180		CP	100HA1A		ND			0000 2400	
605	437.50		POR	S MIGUEL	AZR	025W39 37N45	025W39 37N45 400		CP	304HF1BCN		ND			0000 2400	
357	437.50		S	HAARSFJAERDEN RADIO	S	018E40 58N59	018E40 58N59 400		CO	100HA1A		ND			0000 2400	
367	437.50		S	TINGSTAEDE RADIO	S	018E36 57N44	018E36 57N44 300		CO	100HA1A		ND			0000 2400	
2774	437.50		SYR	LATTAKIA RADIO	SYR	035E47 35N30	035E47 35N30 500		CP	100HA1A		ND			0000 2400	
1035	437.50		URS	IZMAIL	UKR	028E51 45N20	028E51 45N20 350		CP	100HA1A		ND			0000 2400	
1039	437.50		URS	KILIIA	UKR	029E15 45N26	029E15 45N26 200		CP	100HA1A		ND			0000 2400	
1023	437.50		URS	RENI	UKR	028E18 45N29	028E18 45N29 200		CO	100HA1A		ND			0000 2400	
1198	437.50		URS	EISK	URS	038E15 46N41	038E15 46N41 200		CO	100HA1A		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
905	438.00	AFS		CAPE TOWN	AFS	018E43 33S41	018E43 33S41	500		CP	100HA1AAN		ND		0000 2400	
907	438.00	AFS		DURBAN	AFS	030E48 29S48	030E48 29S48	500		CP	100HA1AAN		ND		0000 2400	
2386	438.00	AGL		SOYO	AGL	012E12 06S07	012E12 06S07	500		CP	100HA1A		ND		0000 2400	
2734	438.00	ALB		DURRES PT RADIO	ALB	019E26 41N27	019E26 41N27	400		CP	100HA1AAN		ND		0000 2400	
2684	438.00	CME		LIMBE	CME	009E22 04N02	009E22 04N02	400		CP	100HA1A		ND		0700 1900	
2025	438.00	DNK		LYNGBY	DNK	011E25 55N50	011E25 55N50	350		CP	100HA1A		ND		0000 2400	
510	438.00	E		LAS PALMAS	CNR	015W26 28N09	015W26 28N09	600		CO	100HA1AAN		ND		0000 2400	
455	438.00	E		CABO DE LA NAO RADIO	E	000E11 38N43	000E11 38N43	555		CP	100HA1AAN		ND		0000 2400	
613	438.00	I		GRADO	I	013E23 45N41	013E23 45N41	80		CV	100HA1A		ND		0800 1700	
542	438.00	IRL		MALIN HEAD	IRL	007W21 55N22	007W21 55N22	500		CP	100HA1A		ND		0000 2400	
2072	438.00	ISL		REYKJAVIK RADIO	ISL	021W51 64N05	021W51 64N05	900		CP	100HA1A		ND		0000 2400	
2890	438.00	LBY		TRIPOLI	LBY	013E11 32N54	013E11 32N54	700		CP	100HA1AAN		ND		0000 2400	
2260	438.00	MAU		MAURITIUS RADIO	MAU	057E30 20S20	057E30 20S20	600		CP	100HA1AAN		ND		0000 2400	
1607	438.00	MDG		ANTSERANANA	MDG	049E17 12S17	049E17 12S17	500		CP	100HA1A		ND		0000 2400	
603	438.00	POR		HORTA	AZR	028W38 38N32	028W38 38N32	750		CO	100HA1A		ND		0000 2400	
22	438.00	QAT		DOHA	QAT	051E35 25N45	051E35 25N45	800		CP	100HA1A		ND		0000 2400	
1018	438.00	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	350		CP	100HA1A		ND		0000 2400	
1212	438.00	URS		MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350		CO	100HA1A		ND		0000 2400	
1530	438.00	URS		PETROZAVODSK	URS	034E19 61N48	034E19 61N48	350		CO	100HA1A		ND		0000 2400	
1299	438.00	URS		TAGANROG	URS	038E53 47N13	038E53 47N13	200		CO	100HA1A		ND		0000 2400	
33	438.00	YMS		HISWA	YMS	044E54 12N49	044E54 12N49	800		CP	100HA1AAN		ND		0000 2400	
2132	438.50	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1500		CP	100HA1A		ND		0000 2400	
2162	438.50	ALG		ORAN RADIO	ALG	000W08 35N46	000W08 35N46	1200		CP	100HA1A		ND		0000 2400	
2622	438.50	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600		CP	100HA1A		ND		0000 2400	
2857	438.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000		CP	100HA1B		ND		0000 2400	
2785	438.50	CPV		MINDELO	CPV	024W59 16N53	024W59 16N53	1000		CP	2K00R2B		ND		0000 2400	
525	438.50	E		TENERIFE RADIO	CNR	016W20 28N25	016W20 28N25	555		CP	100HA1AAN		ND		0000 2400	
2701	438.50	E		CDEPENAS	E	005W51 43N39	005W51 43N39	500		CP	100HA1A		ND		0000 2400	
2549	438.50	EGY		TOR RADIO	EGY	033E35 28N15	033E35 28N15	300		CP	340HF1B		ND		0400 2200	
2019	438.50	GRC		SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370		CO	100HA1AAN		ND		0000 2400	
649	438.50	I		LA SPEZIA	I	009E43 44N06	009E43 44N06	380		CO	304HF1B		ND		0000 2400	
892	438.50	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00	00S01	CR	2K10A2AAN		ND		0000 2400	
2846	438.50	LBR		HARPER C PALMA	LBR	007W44 04N22	007W44 04N22	400		CP	100HA1A		ND		0800 2300	
1597	438.50	MDG		MANANJARY	MDG	048E20 21S13	048E20 21S13	250		CP	100HA1A		ND		0000 2400	
2278	438.50	MOZ		MAPUTO RADIONAVAL	MOZ	032E34 25S50	032E34 25S50	500		CO	100HA1A		ND		0000 2400	
2348	438.50	STP		S TOME RADIO	STP	006E44 00N21	006E44 00N21	400		CP	100HA1AAN		ND		0000 2400	
948	438.50	URS		IALTA	UKR	034E10 44N39	034E10 44N39	350		CP	100HA1A		ND		0000 2400	
1406	438.50	URS		LIEPAIA	URS	021E02 56N43	021E02 56N43	350		CO	100HA1A		ND		0000 2400	
1377	438.50	URS		PETROZAVODSK	URS	034E19 61N48	034E19 61N48	200		OT	100HA1A		ND		0000 2400	
2224	439.00	BEL		OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500		CP	2K10A2A		ND		0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 5 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2651	439.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600		CP 100HA1A			ND			0000 2400	
1962	439.00		BUL	VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO 100HA1A			ND			0000 2400	
2781	439.00		CPV	MINDELO	CPV	024W59 16N53	024W59 16N53 1000		CP 2K00R2B			ND			0000 2400	
52	439.00		G	GIBRALTAR	GIB	005W21 36N07	005W21 36N07 320		CP 100HA1A			ND			0000 2400	
44	439.00		G	ST HELENA	SHN	005W43 15S56	005W43 15S56 320		CP 100HA1A			ND			0000 2400	
2903	439.00		GUI	KONAKRI	GUI	013W37 09N30	013W37 09N30 300		CP 1K70A2B			ND			0000 2400	
619	439.00		I	VENEZIA	I	012E20 45N26	012E20 45N26 80		CV 100HA1A			ND			0800 1700	
2258	439.00		MAU	MAURITIUS RADIO	MAU	057E30 20S20	057E30 20S20 600		CP 100HA1AAN			ND			0000 2400	
1599	439.00		MDG	NOSSI BE	MDG	048E16 13S24	048E16 13S24 350		CP 100HA1A			ND			0000 2400	
1604	439.00		MDG	TOLAGNARO	MDG	046E59 25S01	046E59 25S01 500		CP 100HA1A			ND			0000 2400	
1627	439.00		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05 500		CP 2K10A2AAN			ND			0000 2400	
1921	439.00		MRC	LAAYOUNE	MRC	013W13 27N10	013W13 27N10 350		CP 75H0A1A			ND			0000 2400	
21	439.00		QAT	DOHA	QAT	051E35 25N45	051E35 25N45 800		CP 100HA1A			ND			0000 2400	
361	439.00		S	KARLSKRONA RADIO	S	015E33 56N11	015E33 56N11 200		CO 100HA1A			ND			0000 2400	
364	439.00		S	RUDA RADIO	S	016E18 57N12	016E18 57N12 200		CO 100HA1A			ND			0000 2400	
16	439.00		SEY	MAHE	SEY	055E27 04S37	055E27 04S37 620		CP 100HA1A			ND			0000 2400	
2409	439.00		TUN	TABARKA RADIO	TUN	006E25 36N57	005E21 43N19 003E18 36N40 009E14 39N13 002E43 39N31 008E56 44N25 002E23 41N25		CP 2K10A2AAN			ND			0600 1900	
1051	439.00		URS	GENITCHESK	UKR	034E48 46N12	034E48 46N12 200		CP 100HA1A			ND			0000 2400	
1487	439.00		URS	KESTENGA	URS	032E00 65N55	032E00 65N55 200		CO 100HA1A			ND			0000 2400	
1497	439.00		URS	LODEINOE	URS	033E34 60N43	033E34 60N43 200		CO 100HA1A			ND			0000 2400	
1491	439.00		URS	TCHUPA	URS	033E00 66N16	033E00 66N16 200		CO 100HA1A			ND			0000 2400	
843	439.00		YUG	DUBROVNIK	YUG	018E07 42N38	018E07 42N38 300		CP 100HA1AAN			ND			0000 2400	
2382	439.50		AGL	LOBITO	AGL	013E33 12S22	013E33 12S22 500		CP 100HA1A			ND			0000 2400	
2214	439.50		BEL	OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500		CP 300HF1B			ND			0000 2400	
2620	439.50		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600		CP 304HF1B			ND			0000 2400	
2521	439.50		BHR	HAMALA	BHR	050E28 26N09	050E28 26N09 800		CP 100HA1A			ND			0000 2400	
1963	439.50		BUL	VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO 100HA1A			ND			0000 2400	
2783	439.50		CPV	MINDELO	CPV	024W59 16N53	024W59 16N53 1000		CP 2K00R2B			ND			0000 2400	
2461	439.50		CTI	ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21 300		CP 100HA1A			ND			0000 2400	
336	439.50		DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 750		CP 300HF1B			ND			0000 2400	
2703	439.50		E	CEUTA	E	005W21 35N54	005W21 35N54 500		CP 100HA1A			ND			0000 2400	
2226	439.50		GAB	LIBREVILLE	GAB	009E26 00N25	009E26 00N25 500		CP 100HA1A			ND			0600 1800	
2257	439.50		MAU	MAURITIUS RADIO	MAU	057E30 20S20	057E30 20S20 600		CP 100HA1AAN			ND			0000 2400	
1603	439.50		MDG	TOLAGNARO	MDG	046E59 25S01	046E59 25S01 500		CP 100HA1A			ND			0000 2400	
2424	439.50		MLT	XLOKK RADIO	MLT	014E32 35N49	014E32 35N49 1000		CP 100HA1AAN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1626	439.50		MOZ	NACALA RADIO	MOZ	040E39 14S34 040E39 14S34	500	CP	100HA1AAN			ND			0000 2400	
2900	439.50		MTN	NOUAKCHOTT RADIO	MTN	015W58 18N06 015W58 18N06	600	CP	304HF1B			ND			0000 2400	
375	439.50		S	HAERNOESAND RADIO	S	018E08 62N43 018E08 62N43	500	CP	280HF1B			ND			0000 2400	
2579	439.50		SRL	FTN	SRL	013W15 08N29 013W15 08N29	300	CP	H100A1A			ND			0000 2400	
2490	439.50		TUR	ISKENDERUN	TUR	036E07 36N37 036E07 36N37	250	CP	100HA1AAN			ND			0000 2400	
1429	439.50		URS	KALININGRAD	URS	020E30 54N45 020E30 54N45	350	CP	100HA1A			ND			0000 2400	
1155	439.50		URS	TUAPSE	URS	039E05 44N01 039E05 44N01	200	CP	100HA1A			ND			0000 2400	
840	439.50		YUG	RIJEKA	YUG	014E33 45N07 014E33 45N07	300	CP	100HA1AAN			ND			0000 2400	
1908	440.00		ARS	RAS TANURA RADIO	ARS	050E07 26N18 050E07 26N18	700	CV	100HA1AAN			ND			0000 2400	
2789	440.00		CPV	PRAIA	CPV	023W30 14N55 023W30 14N55	1000	CP	2K00R2B			ND			1000 2000	
2471	440.00		CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18 004W01 05N18	200	CR	100HA1A			ND			0000 2400	
2034	440.00		DNK	ARHUS	DNK	010E13 56N10 010E13 56N10	400	CO	100HA1A			ND			0000 2400	
2563	440.00		EGY	PORT SAID RADIO	EGY	032E18 31N19 032E18 31N19	500	CP	500HA1A			ND			0400 2200	
1819	440.00		F	BREST	F	004W19 48N26 001W45 43N23 010W00 44N10 010W00 50N00 005W00 50N00 000W01 50N45 000W01 49N25		CO	304HF1BBN			ND			0000 2400	
1995	440.00		GRC	PIRAEUS	GRC	023E40 37N58 023E40 37N58	370	CO	100HA1A			ND			0000 2400	
646	440.00		I	ANCONA	I	013E31 43N37 013E31 43N37	380	CO	304HF1B			ND			0000 2400	
1600	440.00		MDG	TOAMASINA	MDG	049E24 18S08 049E24 18S08	500	CP	100HA1A			ND			0000 2400	
1923	440.00		MRC	DAKHLA	MRC	015W56 23N42 015W56 23N42	400	CP	75H0A1A			ND			0000 2400	
1928	440.00		MRC	TANGER-RADIO	MRC	005W51 35N44 005W51 35N44	400	CP	75H0A1A			ND			0000 2400	
2580	440.00		SRL	FTN	SRL	013W15 08N29 013W15 08N29	300	CP	H100F1B			ND			0000 2400	
2924	440.00		TGO	LOME RADIO	TGO	001E30 06N36 001E36 06N36	100	CP	1K00F1B			ND			0000 2400	
2410	440.00		TUN	TABARKA RADIO 2 MDN	TUN	006E25 36N57 005E21 43N19 003E18 36N40 009E14 39N13 002E43 39N31 008E56 44N25 002E23 41N25		CO	2K10A2AAN			ND			0600 1900	
1054	440.00		URS	BERDIANSK	UKR	036E48 46N47 036E48 46N47	200	CP	100HA1A			ND			0000 2400	
1050	440.00		URS	GENITCHESK	UKR	034E48 46N12 034E48 46N12	200	CP	100HA1A			ND			0000 2400	
1177	440.00		URS	ASTRAKHAN	URS	047E42 46N55 047E42 46N55	350	CP	100HA1A			ND			0000 2400	
1117	440.00		URS	BATUMI	URS	041E19 41N39 041E19 41N39	200	CO	100HA1A			ND			0000 2400	
1262	440.00		URS	KRASNOVODSK	URS	052E57 40N00 052E57 40N00	200	CO	100HA1A			ND			0000 2400	
1545	440.00		URS	TALLIN	URS	024E46 59N24 024E46 59N24	350	CP	100HA1A			ND			0000 2400	
2290	440.00		ZAI	BANANA RADIO	ZAI	012E18 05S53 012E18 05S53	800	CP	100HA1AAN			ND			0600 2100	
1022	440.40		URS	RENI	UKR	028E18 45N29 028E18 45N29	200	CO	2K35J3E			ND			0000 2400	
2103	440.50		ALG	ALGER RADIO	ALG	003E18 36N40 003E18 36N40	500	CP	340HF1B			ND			0000 2400	
2123	440.50		ALG	ORAN RADIO	ALG	000W08 35N46 000W08 35N46	400	CP	340HF1B			ND			0000 2400	
28	440.50		BHR	BAHRAIN	BHR	050E28 26N09 050E28 26N09	800	CP	100HA1A			ND			0000 2400	
1971	440.50		BUL	BOURGAS RADIO	BUL	027E29 42N30 027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO	100HA1A			ND			0000 2400	
2778	440.50		CME	DOUALA	CME	009E42 04N02 009E42 04N02	400	CP	300HA1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2855	440.50	COG	POINTE NOIRE RADIO	COG	011E51	04S44	011E51 04S44 1000	CP	100HA1B			ND			0000 2400	
2773	440.50	COM	DZAOUDZI RADIO	COM	045E18	12S47	045E18 12S47 500	CP	100HA1A			ND			0400 1700	
2784	440.50	CPV	MINDELO	CPV	024W59	16N53	024W59 16N53 1000	CP	500HA1B			ND			0000 2400	
2477	440.50	CTI	S. PEDRO PORT	CTI	006W37	04N44	006W37 04N44 200	CR	100HA1A			ND			0000 2400	
2708	440.50	E	LACORUNA	E	008W24	43N20	008W24 43N20 500	CP	100HA1A			ND			0000 2400	
1816	440.50	F	S DENIS	REU	055E36	20S54	055E27 20S51 800	CP	304HF1B			ND			0000 2400	
81	440.50	G	ILFRACOMBE RADIO	G	004W07	51N11	004W07 51N11 160	CP	100HA1A			ND			0000 2400	
2828	440.50	GMB	BANJUL	GMB	016W50	13N16	016W50 13N16 800	CP	2K00A2B			ND			0700 1900	
2002	440.50	GRC	ATHINAI	GRC	023E53	38N00	023E53 38N00 370	CP	304HF1BCN			ND			0000 2400	
639	440.50	I	ROMA	I	012E31	41N48	012E31 41N48 600	CP	100HA1A			ND			0000 2400	
2615	440.50	KEN	MOMBASA RADIO	KEN	039E44	03S58	039E44 03S58 600	CP	100HA1AN			ND			0000 2400	
1657	440.50	NOR	BERGEN	NOR	005E22	60N25	005E22 60N25 370	CP	100HA1A			ND			0000 2400	
2253	440.50	TGO	LOME RADIO	TGO	001E36	06N15	001E36 06N15 1000	CP	100HA1A			ND			0000 2400	
968	440.50	URS	NIKOLAEV	UKR	032E00	46N57	032E00 46N57 200	CO	100HA1A			ND			0000 2400	
1431	440.50	URS	KALININGRAD	URS	020E30	54N45	020E30 54N45 350	CP	100HA1A			ND			0000 2400	
1147	440.50	URS	NOVOROSSIISK	URS	037E42	44N42	037E42 44N42 350	CO	100HA1A			ND			0000 2400	
2375	441.00	AGL	LUANDA	AGL	013E14	08S47	013E14 08S47 500	CP	100HA1A			ND			0000 2400	
2156	441.00	ALG	BEJAIA RADIO	ALG	005E05	36N45	005E05 36N45 1200	CP	100HA1A			ND			0000 2400	
2782	441.00	CPV	MINDELO	CPV	024W59	16N53	024W59 16N53 1000	CP	2K00R2B			ND			0000 2400	
339	441.00	DDR	RUEGEN	DDR	013E37	54N35	013E37 54N35 750	CP	300HF1B			ND			0000 2400	
492	441.00	E	CADIZ	E	006W12	36N15	006W12 36N15 600	CO	100HA1AAN			ND			0000 2400	
83	441.00	G	NITON RADIO	G	001W18	50N35	001W18 50N35 160	CP	100HA1A			ND			0000 2400	
94	441.00	G	STONEHAVEN RADIO	G	002W13	56N57	002W13 56N57 240	CP	304HF1BCN			ND			0000 2400	
656	441.00	I	ANCONA	I	013E28	43N36	013E28 43N36 250	CP	304HF1B			ND			0000 2400	
2911	441.00	IRQ	BASRAH	IRQ	047E47	30N33	047E47 30N33 400	CV	100HA1A			ND			0000 2400	
2853	441.00	LBR	MONROVIA	LBR	010W48	06N18	010W48 06N18 400	CP	100HA1A			ND			0800 2300	
2261	441.00	MAU	MAURITIUS RADIO	MAU	057E30	20S20	057E30 20S20 600	CP	100HA1AAN			ND			0000 2400	
1596	441.00	MDG	MANAKARA	MDG	048E00	22S08	048E00 22S08 250	CP	100HA1A			ND			0000 2400	
1588	441.00	MLT	MALTA RADIO	MLT	014E24	35N52	014E24 35N52 1000	CP	100HA1AAN			ND			0000 2400	
2453	441.00	ROU	SULINA	ROU	029E39	45N09	029E39 45N09 700	CP	100HA1A			ND			0000 2400	
2082	441.00	STP	S TOME RADIO	STP	006E44	00N21	006E44 00N21 400	CP	100HA1AAN			ND			0000 2400	
2489	441.00	TUR	ISKENDERUN	TUR	036E07	36N37	036E07 36N37 250	CP	304HF1BCN			ND			0000 2400	
1477	441.00	URS	BELOMORSK	URS	034E41	64N36	034E41 64N36 200	CO	100HA1A			ND			0000 2400	
1456	441.00	URS	KINGISEPP	URS	022E33	58N15	022E33 58N15 200	CO	100HA1A			ND			0000 2400	
1443	441.00	URS	NARVA-IESSU	URS	028E12	59N22	028E12 59N22 200	CO	100HA1A			ND			0000 2400	
1466	441.00	URS	PIARNU	URS	024E33	58N23	024E33 58N23 200	CO	100HA1A			ND			0000 2400	
2104	441.50	ALG	ALGER RADIO	ALG	003E18	36N40	003E18 36N40 1000	CP	100HA1A			ND			0000 2400	
2842	441.50	COG	POINTE NOIRE RADIO	COG	011E51	04S44	011E51 04S44 1000	CP	100HA1A			ND			0000 2400	
500	441.50	E	FERROL	E	008W16	43N28	008W16 43N28 600	CO	100HA1AAN			ND			0000 2400	
1813	441.50	F	DZAOUDZI	MYT	045E17	12S48	045E17 12S48 400	CP	304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
659	441.50	I	AUGUSTA	I	015E13 37N13	015E13 37N13	250	CP	304HF1B			ND			0000 2400	
896	441.50	IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR	2K10A2AAN			ND			0000 2400	
2282	441.50	ISR	HAIFA RADIO	ISR	035E00 32N48	035E00 32N48	1000	CP	304HF1B			ND			0000 2400	
2617	441.50	KEN	MOMBASA RADIO	KEN	039E44 03S58	039E44 03S58	600	CP	100HA1AN			ND			0000 2400	
2839	441.50	LBR	GR BASSA	LBR	010W21 06N07	010W21 06N07	400	CP	100HA1A			ND			0800 2300	
2829	441.50	NIG	LAGOS	NIG	003E27 06N27	003E27 06N27	800	CP	2K00A1B			ND			0600 2400	
2310	441.50	POL	KOLOBRZEG	POL	015E34 54N11	015E34 54N11	500	CR	2K10A2AAN			ND			0000 2400	
2449	441.50	ROU	TULCEA	ROU	028E50 45N12	028E50 45N12	700	CP	100HA1A			ND			0000 2400	
842	441.50	YUG	SPLIT	YUG	016E29 43N30	016E29 43N30	300	CP	100HA1AAN			ND			0000 2400	
2652	442.00	BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	100HA1A			ND			0000 2400	
1959	442.00	BUL	VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO	304HA1B			ND			0000 2400	
2772	442.00	CME	LIMBE	CME	009E22 04N02	009E22 04N02	400	OT	304HF1B			ND			0000 2400	
2472	442.00	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	004W01 05N18	200	CR	100HA1A			ND			0000 2400	
85	442.00	G	PORTPATRICK RADIO	G	005W07 54N51	005W07 54N51	240	CP	100HA1A			ND			0000 2400	
2815	442.00	GUI	CONAKRY	GUI	013W43 09N31	013W43 09N31	300	CP	1K70A1B			ND			0000 2400	
2538	442.00	I	MAZARA VALLO	I	012E34 37N38	012E34 37N38	600	CP	100HA1A			ND			0000 2400	
890	442.00	IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR	2K10A2AAN			ND			0000 2400	
2836	442.00	LBN	BEYROUTH KHALD	LBN	035E29 33N48	035E29 33N48	500	CP	100HA1A			ND			0400 2200	
1598	442.00	MDG	MORONDAVA	MDG	044E18 20S17	044E18 20S17	500	CP	100HA1A			ND			0000 2400	
1624	442.00	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP	100HA1AAN			ND			0000 2400	
1925	442.00	MRC	NADOR	MRC	002W56 35N10	002W56 35N10	300	CP	75H0A1A			ND			0000 2400	
1660	442.00	NOR	BODOE	NOR	014E23 67N16	014E23 67N16	370	CO	400HF1B			ND			0000 2400	
1669	442.00	NOR	FARSUND	NOR	006E45 58N04	006E45 58N04	370	CP	100HA1A			ND			0000 2400	
1737	442.00	POR	APULIA	POR	008W45 41N29	008W45 41N29	350	CO	304HF1B			ND			0000 2400	
1047	442.00	URS	KERTCH	UKR	036E28 45N22	036E28 45N22	200	CO	100HA1A			ND			0000 2400	
1295	442.00	URS	ATCHUEVO	URS	037E27 45N43	037E27 45N43	200	CO	100HA1A			ND			0000 2400	
1203	442.00	URS	AZOV	URS	039E25 45N53	039E25 45N53	200	CO	100HA1A			ND			0000 2400	
1079	442.00	URS	GURIEV	URS	051E55 47N03	051E55 47N03	200	CO	304HF1B			ND			0000 2400	
1266	442.00	URS	KRASNOVODSK	URS	052E57 40N00	052E57 40N00	200	CP	100HA1A			ND			0000 2400	
1218	442.00	URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	OT	100HA1A			ND			0000 2400	
1394	442.00	URS	RIGA	URS	024E05 56N57	024E05 56N57	350	CP	100HA1A			ND			0000 2400	
2379	442.50	AGL	LUANDA	AGL	013E14 08S47	013E14 08S47	500	CP	100HF1B			ND			0000 2400	
2153	442.50	ALG	BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	850	CP	340HF1B			ND			0000 2400	
2667	442.50	CME	KRIBI	CME	009E43 02N53	009E43 02N53	400	CP	304HF1B			ND			0600 1900	
475	442.50	E	FINISTERRE RADIO	E	009W16 42N54	009W16 42N54	555	CP	100HA1AAN			ND			0000 2400	
2803	442.50	EGY	ALEXANDRIA RADIO	EGY	029E51 31N11	029E51 31N11	1000	CP	500HA1A			ND			0000 2400	
1826	442.50	F	BOULOGNE	F	001E38 50N43	001E37 50N43	800	CP	304HF1B			ND			0000 2400	
628	442.50	I	BARI	I	017E25 40N26	017E25 40N26	250	CP	100HA1A			ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
897	442.50		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR 2K10A2AAN			ND			0000 2400	
2852	442.50		LBR	HARPER C PALMA	LBR	007W44 04N22	007W44 04N22	400	CP 100HA1A			ND			0800 2300	
1615	442.50		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP 2K10A2AAN			ND			0000 2400	
1614	442.50		MOZ	NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP 100HA1AAN			ND			0000 2400	
2373	442.50		OMA	MUSCAT	OMA	058E30 23N37	058E30 23N37	400	CP 304HF1BCN			ND			0000 2400	
382	442.50		S	STOCKHOLM RADIO	S	018E43 59N17	018E43 59N17	500	CP 280HF1B			ND			0000 2400	
2492	442.50		TUR	ANTALYA	TUR	030E42 36N53	030E42 36N53	250	CP 304HF1BCN			ND			0000 2400	
993	442.50		URS	OTCHAKOV	UKR	031E30 46N37	031E30 46N37	200	CO 100HA1A			ND			0000 2400	
1315	442.50		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	500	CP 100HA1A			ND			0000 2400	
1133	442.50		URS	SOTCHI	URS	039E45 43N36	039E45 43N36	200	CO 100HA1A			ND			0000 2400	
845	442.50		YUG	KOPER	YUG	013E44 45N33	013E44 45N33	250	CP 134HJ2BCN			ND			0000 2400	
2109	443.00		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40	1000	CP 100HA1A			ND			0000 2400	
2126	443.00		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46	1200	CP 100HA1A			ND			0000 2400	
2840	443.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP 100HA1A			ND			0000 2400	
2462	443.00		CTI	ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP 100HA1A			ND			0000 2400	
908	443.00		CYP	CYPRUS RADIO	CYP	033E17 35N03	033E17 35N03	500	CP 100HA1A			ND			0000 2400	
511	443.00		E	LAS PALMAS	CNR	015W26 28N09	015W26 28N09	600	CO 304HF1BCN			ND			0000 2400	
1833	443.00		F	ARCACHON	F	001W10 44N39	001W10 44N39	800	CP 304HF1B			ND			0000 2400	
80	443.00		G	HUMBER RADIO	G	000E17 53N20	000E17 53N20	160	CP 100HA1A			ND			0000 2400	
669	443.00		I	GENOVA	I	008E56 44N25	008E56 44N25	250	CP 304HF1B			ND			0000 2400	
891	443.00		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR 2K10A2AAN			ND			0000 2400	
1587	443.00		MLT	MALTA RADIO	MLT	014E24 35N52	014E24 35N52	1000	CP 100HA1AAN			ND			0000 2400	
2276	443.00		MOZ	BEIRA RADIONAVAL	MOZ	034E52 19S50	034E52 19S50	500	CO 100HA1A			ND			0000 2400	
2831	443.00		NIG	PT HARCOURT	NIG	007E01 04N51	007E01 04N51	480	OT 100HA1A			ND			0500 1700	
1659	443.00		NOR	BODOE	NOR	014E23 67N16	014E23 67N16	370	CO 100HA1A			ND			0000 2400	
587	443.00		POR	LISBOA	POR	009W14 38N44	009W14 38N44	400	CP 304HF1BCN			ND			0000 2400	
957	443.00		URS	SEVASTOPOL	UKR	033E32 44N34	033E32 44N34	350	CO 100HA1A			ND			0000 2400	
1223	443.00		URS	BAKU	URS	049E45 40N20	049E45 40N20	350	CP 100HA1A			ND			0000 2400	
1081	443.00		URS	GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 100HA1A			ND			0000 2400	
1106	443.00		URS	KALININGRAD	URS	020E30 54N45	020E30 54N45	350	OT 100HA1A			ND			0000 2400	
1324	443.00		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	350	OT 100HA1A			ND			0000 2400	
2106	443.50		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40	500	CP 100HA1A			ND			0000 2400	
2646	443.50		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 100HA1A			ND			0000 2400	
2677	443.50		CME	DOUALA	CME	009E43 04N01	009E43 04N01	400	CP 304HF1B			ND			0000 2400	
2463	443.50		CTI	ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP 100HA1A			ND			0000 2400	
2037	443.50		DNK	FREDERIKSHAVN	DNK	010E35 57N25	010E35 57N25	400	CO 100HA1A			ND			0000 2400	
493	443.50		E	CADIZ	E	006W12 36N15	006W12 36N15	600	CO 304HF1BCN			ND			0000 2400	
1830	443.50		F	LE CONQUET	F	004W44 48N20	004W44 48N20	800	CP 304HF1B			ND			0000 2400	
2007	443.50		GRC	LIMNOS	GRC	025E11 39N54	025E11 39N54	370	CP 304HF1BCN			ND			0000 2400	
631	443.50		I	CAGLIARI	I	009E07 39N15	009E07 39N15	250	CP 100HA1A			ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
668	443.50	I		GENOVA	I	008E56 44N25	008E56 44N25	250	CP 304HF1B			ND			0000 2400	
616	443.50	I		TORRE DEL GRECO	I	014E22 40N46	014E22 40N46	80	CV 100HA1A			ND			0800 1700	
2910	443.50	IRQ		BASRAH	IRQ	047E47 30N33	047E47 30N33	400	CV 100HA1A			ND			0000 2400	
1593	443.50	MDG		MAHAJANGA	MDG	046E18 15S42	046E18 15S42	500	CP 100HA1A			ND			0000 2400	
1589	443.50	MLT		MALTA RADIO	MLT	014E24 35N52	014E24 35N52	1000	CP 304HF1BCN			ND			0000 2400	
1613	443.50	MOZ		BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP 100HA1AAN			ND			0000 2400	
1661	443.50	NOR		HAMMERFEST	NOR	023E41 70N41	023E41 70N41	370	CP 100HA1A			ND			0000 2400	
981	443.50	URS		KHERSON	UKR	032E34 46N39	032E34 46N39	200	OT 100HA1A			ND			0000 2400	
1481	443.50	URS		PERTOMINSK	URS	038E27 64N48	038E27 64N48	200	CO 100HA1A			ND			0000 2400	
2177	444.00	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	800	CP 100HA1A			ND			0000 2400	
1904	444.00	ARS		DAMMAMRADIO	ARS	050E06 26N26	050E06 26N26	700	CP 100HA1AAN			ND			0000 2400	
2649	444.00	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 100HA1A			ND			0000 2400	
2661	444.00	CME		CAMPO	CME	009E51 02N22	009E51 02N22	400	CP 304HF1B			ND			0000 2400	
2478	444.00	CTI		S. PEDRO PORT	CTI	006W37 04N44	006W37 04N44	200	CR 100HA1A			ND			0000 2400	
2552	444.00	EGY		PORT SAID RADIO	EGY	032E18 31N19	00 00		CP 340HF1B			ND			0000 2400	
1828	444.00	F		BOULOGNE	F	001E38 50N43	001E37 50N43	800	CP 304HF1B			ND			0000 2400	
629	444.00	I		CAGLIARI	I	009E07 39N15	009E07 39N15	600	CP 100HA1A			ND			0000 2400	
1612	444.00	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP 100HA1AAN			ND			0000 2400	
2340	444.00	POL		SZCZECIN	POL	014E35 53N28	014E35 53N28	800	CP 2K10A2AAN			ND			0000 2400	
1738	444.00	POR		SAGRES	POR	008W57 37N00	008W57 37N00	350	CO 304HF1B			ND			0000 2400	
2446	444.00	ROU		MANGALIA	ROU	028E35 43N48	028E35 43N48	500	CP 304HF1B			ND			0000 2400	
374	444.00	S		HAERNOESAND RADIO	S	018E08 62N43	018E08 62N43	500	CP 100HA1A			ND			0000 2400	
2145	444.50	ALG		TENES RADIO	ALG	001E18 36N32	001E18 36N32	900	CP 100HA1A			ND			0000 2400	
2656	444.50	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 100HA1A			ND			0000 2400	
2673	444.50	CME		GRAND BATANGA	CME	009E52 02N43	009E52 02N43	400	CR 100HA1A			ND			0000 2400	
2847	444.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP 100HA1A			ND			0000 2400	
2686	444.50	E		VIGO	E	008W49 42N10	008W49 42N10	500	CP 100HA1A			ND			0000 2400	
2807	444.50	EGY		KOSSEIR RADIO	EGY	034E17 26N06	034E17 27N06	1000	CP 500HA1A			ND			0400 2200	
429	444.50	HOL		SCHEVENINGEN	HOL	004E15 52N06	004E15 52N06	500	CP 280HF1BCN			ND			0000 2400	
662	444.50	I		BARI	I	017E25 40N26	017E25 40N26	250	CP 304HF1B			ND			0000 2400	
666	444.50	I		CAGLIARI	I	009E07 39N15	009E07 39N15	350	CP 304HF1B			ND			0000 2400	
894	444.50	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR 2K10A2AAN			ND			0000 2400	
1594	444.50	MDG		MAHAJANGA	MDG	046E18 15S42	046E18 15S42	500	CP 100HA1A			ND			0000 2400	
1616	444.50	MOZ		BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP 2K10A2AAN			ND			0000 2400	
1666	444.50	NOR		ROERVIK	NOR	011E12 64N50	011E12 64N50	180	CP 400HF1B			ND			0000 2400	
2909	444.50	OMA		SALALAH	OMA	054E06 17N01	054E06 17N01	400	CR 304HF1BCN			ND			0000 2400	
604	444.50	POR		HORTA	AZR	028W38 38N32	028W38 38N32	1200	CO 100HA1A			ND			0000 2400	
609	444.50	POR		PORTO SANTO	MDR	016W20 33N05	016W20 33N05	600	CO 100HA1A			ND			0000 2400	
2434	444.50	ROU		AGIGEA	ROU	028E39 44N06	028E39 44N06	700	CP 100HA1A			ND			0000 2400	
1176	444.50	URS		ROSTOV-NA-DONU	URS	039E40 47N16	039E40 47N16	200	CO 100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1414	444.50		URS	VENTSPILS	URS	021E32 57N24	021E32 57N24		350			CP	100HA1A		ND	0000 2400
2378	445.00		AGL	LUANDA	AGL	013E14 08S47	013E14 08S47		500			CP	340HF1B		ND	0000 2400
1958	445.00		BUL	VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30					CO	100HA1A		ND	0000 2400
							037E47 44N43 041E38 41N39									
							036E21 41N19 028E58 41N01									
2663	445.00		CME	CAMPO	CME	009E51 02N22	009E51 02N22		400			CO	100HA1A		ND	0000 2400
2843	445.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44		1000			CP	100HA1A		ND	0000 2400
340	445.00		DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35		750			CP	100HA1A		ND	0000 2400
485	445.00		E	TARIFA RADIO	E	005W33 36N03	005W33 36N03		555			CP	100HA1AAN		ND	0000 2400
1822	445.00		F	CHERBOURG	F	001W37 49N35	004W45 48N20 004W45 50N00					CO	304HF1BBN		ND	0000 2400
							001E10 51N10 001E55 50N55									
							000E01 49N25									
1996	445.00		GRC	PIRAEUS	GRC	023E40 37N58	023E40 37N58		370			CO	300HF1B		ND	0000 2400
612	445.00		I	CAMOGLI	I	009E05 44N23	009E05 44N23		80			CV	100HA1A		ND	0800 1700
1601	445.00		MDG	TOAMASINA	MDG	049E24 18S08	049E24 18S08		500			CP	100HA1A		ND	0000 2400
17	445.00		QAT	QGP C RADIO	QAT	051E32 25N17	051E32 25N17		800			CV	100HA1A		ND	0000 2400
2405	445.00		TUN	BIZERTE RADIO 2 MDN	TUN	009E53 37N16	005E21 43N19 003E18 36N40					CO	2K10A2AAN		ND	0600 1900
							014E14 40N50 008E56 44N25									
							012E21 41N48 009E14 39N13									
965	445.00		URS	EVPATORIIA	UKR	033E18 45N13	033E18 45N13		200			CO	100HA1A		ND	0000 2400
1610	445.50		ALB	DURRES PT RADIO	ALB	019E26 41N27	019E26 41N27		350			CP	100HA1AAN		ND	0000 2400
2147	445.50		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32		850			CP	100HA1A		ND	0000 2400
2854	445.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44		1000			CP	100HA1B		ND	0000 2400
2026	445.50		DNK	LYNGBY	DNK	011E25 55N50	011E25 55N50		350			CP	304HF1B		ND	0000 2400
2687	445.50		E	VIGO	E	008W49 42N10	008W49 42N10		500			CP	100HA1A		ND	0000 2400
1823	445.50		F	TOULON	F	006E04 43N08	001W00 37N35 012E30 37N35					CO	304HF1BBN		ND	0000 2400
							012E30 41N25 007E30 43N45									
							002E50 43N10									
95	445.50		G	WICK RADIO	G	003W06 58N26	003W06 58N26		320			CP	304HF1BCN		ND	0000 2400
2811	445.50		GNE	BASILE	GNE	008E49 03N41	008E49 03N41		2000			CP	2K50A1B		ND	0000 2400
2541	445.50		I	MAZARA VALLO	I	012E34 37N38	012E34 37N38		250			CP	304HF1B		ND	0000 2400
1926	445.50		MRC	ESSAOUIRA	MRC	009W46 31N38	009W46 31N38		350			CP	75H0A1A		ND	0000 2400
24	445.50		QAT	DOHA	QAT	051E35 25N45	051E35 25N45		800			CP	100HA1A		ND	0000 2400
966	445.50		URS	EVPATORIIA	UKR	033E18 45N13	033E18 45N13		200			CP	100HA1A		ND	0000 2400
1543	445.50		URS	TALLIN	URS	024E46 59N24	024E46 59N24		350			CO	100HA1A		ND	0000 2400
1907	446.00		ARS	JEDDAHRADIO	ARS	039E10 21N23	039E10 21N23		700			CP	100HA1AAN		ND	0000 2400
2645	446.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22		600			CP	304HF1B		ND	0000 2400
2675	446.00		CME	DOUALA	CME	009E43 04N01	009E43 04N01		400			OT	100HA1A		ND	0000 2400
1759	446.00		D	KIEL RADIO	D	010E08 54N26	010E10 54N30 019E35 54N20					CP	100HA1AAN		ND	0000 2400
							019E20 56N00 017E50 57N40									
							009E00 59N30 009E00 55N55									

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 12 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2697	446.00		E	MELILLA	E	002W56 35N18	005W21 35N54 500		CP 100HA1A			ND			0000 2400	
2011	446.00		GRC	KERKYRA	GRC	019E54 39N37	019E54 39N37 220		CP 304HF1BCN			ND			0000 2400	
625	446.00		I	AUGUSTA	I	015E13 37N13	015E13 37N13 250		CP 100HA1A			ND			0000 2400	
536	446.00		IRL	HAULBOWLINE	IRL	008W18 51N50	008W18 51N50 500		CO 100HA1A			ND			0000 2400	
2530	446.00		KWT	AHMADI	KWT	048E04 29N06	048E04 29N06 800		CV 1K15A2B			ND			0300 2100	
2255	446.00		MCO	MONACO RADIO	MCO	007E25 43N43	007E25 43N43 500		CP 100HA1A			ND			0000 2400	
2450	446.00		ROU	TULCEA	ROU	028E50 45N12	028E50 45N12 700		CP 304HF1B			ND			0000 2400	
1337	446.00		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36 500		CP 100HA1A			ND			0000 2400	
2655	446.50		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600		CP 100HA1A			ND			0000 2400	
2522	446.50		BHR	HAMALA	BHR	050E28 26N09	050E28 26N09 800		CP 100HA1A			ND			0000 2400	
2670	446.50		CME	KRIBI	CME	009E43 02N53	009E43 02N53 400		OT 100HA1A			ND			0000 2400	
2849	446.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44 1000		CP 100HA1B			ND			0000 2400	
2691	446.50		E	LAS PALMAS RN	E	015W26 28N09	015W26 28N09 600		CP 100HA1A			ND			0000 2400	
615	446.50		I	PESARO	I	012E55 43N54	012E55 43N54 80		CV 100HA1A			ND			0800 1700	
583	446.50		POR	MONSANTO	POR	009W11 38N44	009W11 38N44 500		CO 100HA1A			ND			0000 2400	
2438	446.50		ROU	CONSTANTA	ROU	028E37 44N06	028E37 44N06 700		CP 100HA1A			ND			0000 2400	
2404	446.50		TUN	BIZERTE RADIO	TUN	009E53 37N16	005E21 43N19 003E18 36N40 014E14 40N50 008E56 44N25 012E21 41N48 009E14 39N13		CP 2K10A2AAN			ND			0600 1900	
1122	446.50		URS	BATUMI	URS	041E19 41N39	041E19 41N39 350		CP 100HA1A			ND			0000 2400	
1252	446.50		URS	FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30 200		CP 100HA1A			ND			0000 2400	
1403	446.50		URS	LIEPAIA	URS	021E02 56N43	021E02 56N43 350		CO 100HA1A			ND			0000 2400	
1536	446.50		URS	MEDVEJIEGORSK	URS	034E26 62N56	034E26 62N56 350		CO 100HA1A			ND			0000 2400	
2380	447.00		AGL	NAMIBE	AGL	012E09 15S11	012E09 15S11 500		CP 100HA1A			ND			0000 2400	
2120	447.00		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46 1100		CP 100HA1A			ND			0000 2400	
2672	447.00		CME	GRAND BATANGA	CME	009E52 02N43	009E52 02N43 400		CP 304HF1B			ND			0700 2400	
2856	447.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44 1000		CP 100HA1B			ND			0000 2400	
2036	447.00		DNK	STEVNS	DNK	012E25 55N16	012E25 55N16 400		CO 100HA1A			ND			0000 2400	
89	447.00		G	HEBRIDES RADIO	G	007W02 58N14	007W02 58N14 400		CP 304HF1BCN			ND			0000 2400	
84	447.00		G	NORTH FORELAND RADIO	G	001E25 51N22	001E25 51N22 240		CP 100HA1A			ND			0000 2400	
2001	447.00		GRC	ATHINAI	GRC	023E53 38N00	023E53 38N00 370		CP 100HA1AAN			ND			0000 2400	
632	447.00		I	GENOVA	I	008E56 44N25	008E56 44N25 600		CP 100HA1A			ND			0000 2400	
2527	447.00		KWT	RAS ALZOOR	KWT	048E56 28N28	048E56 28N28 800		CV 1K15A2B			ND			0300 2100	
933	447.00		URS	FEODOSIIA	UKR	035E20 45N02	035E20 45N02 200		CO 100HA1A			ND			0000 2400	
1472	447.00		URS	BELOMORSK	URS	034E41 64N36	034E41 64N36 200		CO 100HA1A			ND			0000 2400	
1512	447.00		URS	LENINGRAD	URS	030E21 59N59	030E21 59N59 200		CO 100HA1A			ND			0000 2400	
2374	447.50		AGL	LUANDA	AGL	013E14 08S47	013E14 08S47 500		CP 100HA1A			ND			0000 2400	
2108	447.50		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40 1000		CP 340HF1B			ND			0000 2400	
2178	447.50		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06 800		CP 100HA1A			ND			0000 2400	
2621	447.50		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600		CP 304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1970	447.50		BUL	BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO 100HA1A			ND			0000 2400	
1834	447.50		F	ARCACHON	F	001W10 44N39	001W10 44N39	800	CP 304HF1B			ND			0000 2400	
78	447.50		G	ANGLESEY RADIO	G	004W18 53N24	004W18 53N24	160	CP 100HA1A			ND			0000 2400	
2812	447.50		GNE	MBINI	GNE	009E38 01N34	009E38 01N34	2000	CP 2K50A1B			ND			0000 2400	
2014	447.50		GRC	HERAKLION	GRC	025E45 35N19	025E45 35N19	370	CP 100HA1AAN			ND			0000 2400	
622	447.50		I	ANCONA	I	013E28 43N36	013E28 43N36	250	CP 100HA1A			ND			0000 2400	
670	447.50		I	GENOVA	I	008E56 44N25	008E56 44N25	250	CP 304HF1B			ND			0000 2400	
651	447.50		I	PALOMBARA	I	015E08 37N10	015E08 37N10	380	CO 304HF1B			ND			0000 2400	
1675	447.50		NOR	ROGALAND	NOR	005E34 58N48	005E34 58N48	370	CP 100HA1A			ND			0000 2400	
1741	447.50		POR	MONSANTO	POR	009W11 38N44	009W11 38N44	1500	CO 304HF1B			ND			0000 2400	
23	447.50		QAT	DOHA	QAT	051E35 25N45	051E35 25N45	800	CP 100HA1A			ND			0000 2400	
934	447.50		URS	FEODOSIIA	UKR	035E20 45N02	035E20 45N02	200	CP 100HA1A			ND			0000 2400	
1535	447.50		URS	MEDVEJIEGORSK	URS	034E26 62N56	034E26 62N56	350	CO 100HA1A			ND			0000 2400	
1413	447.50		URS	VENTSPILS	URS	021E32 57N24	021E32 57N24	350	CP 100HA1A			ND			0000 2400	
2169	448.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	300	CP 340HF1B			ND			0000 2400	
2144	448.00		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32	300	CP 304HF1B			ND			0000 2400	
1916	448.00		ARS	RAS TANURA RADIO	ARS	050E07 26N18	050E07 26N18	700	CV 100HA1AAN			ND			0000 2400	
2641	448.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
1835	448.00		F	MARSEILLE	F	005E21 43N19	005E21 43N19	800	CP 304HF1B			ND			0000 2400	
82	448.00		G	LANDS END RADIO	G	005W40 50N07	005W40 50N07	320	CP 100HA1A			ND			0000 2400	
2227	448.00		GAB	LIBREVILLE	GAB	009E26 00N25	009E26 00N25	500	CP 100HA1A			ND			0600 1800	
2022	448.00		GRC	SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	220	CO 300HF1BCN			ND			0000 2400	
1671	448.00		NOR	AALESUND	NOR	006E12 62N28	006E12 62N28	180	CP 400HF1B			ND			0000 2400	
2371	448.00		OMA	SALALAH	OMA	054E06 17N01	054E06 17N01	400	CP 304HF1BCN			ND			0000 2400	
584	448.00		POR	APULIA	POR	008W45 41N29	008W45 41N29	350	CO 100HA1A			ND			0000 2400	
385	448.00		S	STOCKHOLM RADIO	S	014E19 55N29	014E19 55N29	500	CP 280HF1B			ND			0000 2400	
2758	448.00		TUN	SFAX RADIO	TUN	010E44 34N44	010E44 34N44	300	CP 100HA1A			ND			0600 2400	
1064	448.00		URS	JDANOV	UKR	037E31 47N08	037E31 47N08	350	CO 100HA1A			ND			0000 2400	
1327	448.00		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	350	CO 100HA1A			ND			0000 2400	
1510	448.00		URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	200	CO 100HA1A			ND			0000 2400	
1216	448.00		URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CO 100HA1A			ND			0000 2400	
849	448.00		YUG	DUBROVNIK	YUG	018E07 42N38	018E07 42N38	200	CP 134HJ2BCN			ND			0000 2400	
2140	448.50		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32	900	CP 100HA1A			ND			0000 2400	
2225	448.50		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP 2K10A2A			ND			0000 2400	
2644	448.50		BEN	COTONOU	BEN	002E28 06N22	00 00		CP 304HF1B			ND			0000 2400	
2676	448.50		CME	DOUALA	CME	009E43 04N01	009E43 04N01	400	CP 304HF1B			ND			0000 2400	
529	448.50		E	TENERIFE RADIO	CNR	016W20 28N25	016W20 28N25	555	CP 304HF1BCN			ND			0000 2400	
636	448.50		I	NAPOLI	I	014E14 40N50	014E14 40N50	600	CP 100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2529	448.50		KWT	HUBAN	KWT	047E41 29N31	047E41 29N31	800		CP	100HA1A		ND		0000 2400	
1664	448.50		NOR	TJOEME	NOR	010E25 59N05	010E25 59N05	180		CP	100HA1A		ND		0000 2400	
2445	448.50		ROU	MANGALIA	ROU	028E35 43N48	028E35 43N48	500		CP	100HA1A		ND		0000 2400	
1119	448.50		URS	BATUMI	URS	041E19 41N39	041E19 41N39	350		CO	100HA1A		ND		0000 2400	
1533	448.50		URS	MEDVEJIEGORSK	URS	034E26 62N56	034E26 62N56	200		CO	100HA1A		ND		0000 2400	
1356	448.50		URS	MEZEN	URS	044E17 65N51	044E17 65N51	200		CP	100HA1A		ND		0000 2400	
1318	448.50		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	350		CO	100HA1A		ND		0000 2400	
1396	448.50		URS	RIGA	URS	024E05 56N57	024E05 56N57	350		CP	100HA1A		ND		0000 2400	
2432	448.50		ZAI	BANANA RADIO	ZAI	012E18 05S53	012E18 05S53	800		CP	100HA1AAN		ND		0600 2100	
2683	449.00		CME	LIMBE	CME	009E22 04N02	009E22 04N02	400		CO	100HA1A		ND		0000 2400	
2841	449.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000		CP	100HA1A		ND		0000 2400	
2029	449.00		DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33	350		CP	100HA1A		ND		0000 2400	
459	449.00		E	CABO PENAS RADIO	E	005W51 43N39	005W51 43N39	555		CP	100HA1AAN		ND		0000 2400	
1992	449.00		GRC	ASPROPYRGOS	GRC	023E35 38N02	023E35 38N02	370		CO	300HF1B		ND		0000 2400	
635	449.00		I	GENOVA	I	008E56 44N25	008E56 44N25	250		CP	100HA1A		ND		0000 2400	
2533	449.00		KWT	RAS ALZOOR	KWT	048E56 28N28	048E56 28N28	800		CP	340HF1B		ND		0300 2100	
1927	449.00		MRC	CASABLANCA RADIO	MRC	007W34 33N34	007W34 33N37	400		CP	75H0A1A		ND		0000 2400	
2398	449.00		TUN	SFAX RADIO	TUN	010E44 34N44	010E11 36N53	014E32 35N49		CP	2K10A2AAN		ND		0600 2400	
							013E11 32N54	012E31 41N48								
							009E14 39N13	014E14 40N50								
2496	449.00		TUR	MERSIN	TUR	034E36 36N49	034E36 36N49	250		CP	304HF1BCN		ND		0000 2400	
1276	449.00		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	200		CO	100HA1A		ND		0000 2400	
1104	449.00		URS	GELENDJIK	URS	038E06 44N35	038E06 44N35	350		OT	100HA1A		ND		0000 2400	
1388	449.00		URS	RIGA	URS	024E05 56N57	024E05 56N57	350		CO	100HA1A		ND		0000 2400	
2376	449.50		AGL	LUANDA	AGL	013E14 08S47	013E14 08S47	500		CP	100HA1A		ND		0000 2400	
2170	449.50		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	750		CP	340HF1B		ND		0000 2400	
31	449.50		BHR	BAHRAIN	BHR	050E28 26N09	050E28 26N09	800		CP	100HA1A		ND		0000 2400	
2662	449.50		CME	CAMPO	CME	009E51 02N22	009E51 02N22	400		CP	304HF1B		ND		0700 1900	
518	449.50		E	LAS PALMAS RADIO	CNR	015W36 27N45	015W36 27N45	555		CP	100HA1AAN		ND		0000 2400	
2021	449.50		GRC	SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370		CO	300HF1BCN		ND		0000 2400	
431	449.50		HOL	OUDDORP	HOL	003E53 51N48	003E53 51N48	500		CP	280HF1BCN		ND		0000 2400	
661	449.50		I	AUGUSTA	I	015E13 37N13	015E13 37N13	350		CP	304HF1B		ND		0000 2400	
647	449.50		I	LA MADDALENA	I	009E20 41N13	009E20 41N13	380		CO	304HF1B		ND		0000 2400	
2913	449.50		IRQ	BASRAH	IRQ	048E29 29N58	048E29 29N58	400		CV	100HA1A		ND		0000 2400	
976	449.50		URS	TCHERNOMORSKOE	UKR	032E43 45N30	032E43 45N30	200		OT	100HA1A		ND		0000 2400	
1567	449.50		URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	350		CO	100HA1A		ND		0000 2400	
1528	449.50		URS	PETROZAVODSK	URS	034E19 61N48	034E19 61N48	350		OT	100HA1A		ND		0000 2400	
2154	450.00		ALG	BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	185		CP	340HF1B		ND		0000 2400	
2168	450.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	100		CP	100HA1A		ND		0000 2400	
1159	450.00		URS	ANAPA	URS	037E20 44N54	037E20 44N54	200		CO	100HA1A		ND		0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1084	450.00			URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 100HA1A			ND			0000 2400	
1369	450.00			URS KANDALAKCHA	URS	032E29 67N10	032E29 67N10	200	CP 100HA1A			ND			0000 2400	
1264	450.00			URS KRASNOVODSK	URS	052E57 40N00	052E57 40N00	200	CO 100HA1A			ND			0000 2400	
1208	450.00			URS MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CP 100HA1A			ND			0000 2400	
1360	450.00			URS MEZEN	URS	044E17 65N51	044E17 65N51	200	CO 100HA1A			ND			0000 2400	
1526	450.00			URS PETROZAVODSK	URS	034E19 61N48	034E19 61N48	200	CO 100HA1A			ND			0000 2400	
1541	450.00			URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CO 100HA1A			ND			0000 2400	
1072	450.50			URS BELGOROD-DNESTROVSKY	UKR	030E22 46N11	030E22 46N11	200	CO 100HA1A			ND			0000 2400	
1066	450.50			URS JDANOV	UKR	037E31 47N08	037E31 47N08	350	CP 100HA1A			ND			0000 2400	
1476	450.50			URS BELOMORSK	URS	034E41 64N36	034E41 64N36	200	CO 100HA1A			ND			0000 2400	
1254	450.50			URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CO 100HA1A			ND			0000 2400	
1105	450.50			URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	OT 100HA1A			ND			0000 2400	
1508	450.50			URS LENINGRAD	URS	030E21 59N59	030E21 59N59	350	CP 100HA1A			ND			0000 2400	
1281	450.50			URS TCHELEKEN	URS	053E24 39N24	053E24 39N24	200	CO 100HA1A			ND			0000 2400	
2121	451.00			ALG ORAN RADIO	ALG	000W08 35N46	000W08 35N46	185	CP 100HA1A			ND			0000 2400	
952	451.00			URS IALTA	UKR	034E10 44N39	034E10 44N39	350	CP 100HA1A			ND			0000 2400	
1580	451.00			URS ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CP 304HF1B			ND			0000 2400	
1233	451.00			URS BAKU	URS	049E45 40N20	049E45 40N20	350	OT 100HA1A			ND			0000 2400	
1468	451.00			URS PIARNU	URS	024E33 58N23	024E33 58N23	200	CO 100HA1A			ND			0000 2400	
1127	451.00			URS SUKHUMI	URS	040E42 43N00	040E42 43N00	200	CP 100HA1A			ND			0000 2400	
1025	451.50			URS IZMAIL	UKR	028E51 45N20	028E51 45N20	200	CO 100HA1A			ND			0000 2400	
1202	451.50			URS AZOV	URS	039E25 45N53	039E25 45N53	200	CO 100HA1A			ND			0000 2400	
1565	451.50			URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CO 100HA1A			ND			0000 2400	
1445	451.50			URS NARVA-IESSU	URS	028E12 59N22	028E12 59N22	200	CO 100HA1A			ND			0000 2400	
1365	451.50			URS ONEGA	URS	038E10 63N57	038E10 63N57	200	CO 100HA1A			ND			0000 2400	
1095	451.50			URS TCHETCHEN	URS	047E39 44N00	047E39 44N00	200	CO 100HA1A			ND			0000 2400	
2131	452.00			ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	185	CP 100HA1A			ND			0000 2400	
2141	452.00			ALG TENES RADIO	ALG	001E18 36N32	001E18 36N32	185	CP 100HA1A			ND			0000 2400	
995	452.00			URS OTCHAKOV	UKR	031E30 46N37	031E30 46N37	200	CO 100HA1A			ND			0000 2400	
1489	452.00			URS KESTENGA	URS	032E00 65N55	032E00 65N55	200	CO 100HA1A			ND			0000 2400	
1087	452.00			URS KHUDAT	URS	048E39 41N38	048E39 41N38	200	CO 100HA1A			ND			0000 2400	
1457	452.00			URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 100HA1A			ND			0000 2400	
1495	452.00			URS LODEINOE	URS	033E34 60N43	033E34 60N43	200	CO 100HA1A			ND			0000 2400	
1130	452.00			URS PICUNDA	URS	040E21 43N09	040E21 43N09	200	CP 100HA1A			ND			0000 2400	
1002	452.50			URS ILITCHEVSK	UKR	030E41 46N19	030E41 46N19	200	CP 100HA1A			ND			0000 2400	
1335	452.50			URS ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	350	CO 100HA1A			ND			0000 2400	
1293	452.50			URS ATCHUEVO	URS	037E27 45N43	037E27 45N43	200	CO 100HA1A			ND			0000 2400	
1420	452.50			URS KALININGRAD	URS	020E30 54N45	020E30 54N45	200	CO 100HA1A			ND			0000 2400	
1501	452.50			URS KOLGUEV	URS	049E07 69N30	049E07 69N30	350	OT 100HA1A			ND			0000 2400	
1290	452.50			URS MUMRA	URS	047E41 45N45	047E41 45N45	200	CO 100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1313	452.50	URS		MURMANSK	URS	033E10 68N58	033E10 68N58	350	CP	100HA1A		ND			0000 2400	
2102	453.00	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40	185	CP	100HA1A		ND			0000 2400	
1010	453.00	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	350	OT	100HA1A		ND			0000 2400	
1115	453.00	URS		BATUMI	URS	041E19 41N39	041E19 41N39	200	OT	100HA1A		ND			0000 2400	
1214	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CO	100HA1A		ND			0000 2400	
1392	453.00	URS		RIGA	URS	024E05 56N57	024E05 56N57	350	CP	100HA1A		ND			0000 2400	
1192	453.00	URS		ROSTOV-NA-DONU	URS	039E40 47N16	039E40 47N16	200	CO	100HA1A		ND			0000 2400	
1493	453.00	URS		TCHUPA	URS	033E00 66N16	033E00 66N16	200	CO	100HA1A		ND			0000 2400	
2642	510.50	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	304HF1B		ND			0000 2400	
2668	510.50	CME		KRIBI	CME	009E43 02N53	009E43 02N53	400	CP	304HF1B		ND			0000 2400	
338	510.50	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	350	CP	100HA1A		ND			0000 2400	
2702	510.50	E		PALMA MALLORCA	E	002E35 39N35	002E35 39N35	500	CP	100HA1A		ND			0000 2400	
1821	510.50	F		CHERBOURG	F	001W37 49N35	004W45 48N20 004W45 50N00 001E10 51N10 001E55 50N55 000E01 49N25		CO	304HF1BBN		ND			0000 2400	
86	510.50	G		STONEHAVEN RADIO	G	002W13 56N57	002W13 56N57	240	CP	100HA1A		ND			0000 2400	
654	510.50	I		TARANTO	I	017E25 40N26	017E25 40N26	380	CO	304HF1B		ND			0000 2400	
618	510.50	I		TRIESTE	I	013E46 45N39	013E46 45N39	80	CV	100HA1A		ND			0800 1700	
2915	510.50	IRQ		FAO	IRQ	048E29 29N58	048E29 29N58	400	CV	100HA1A		ND			0000 2400	
2494	510.50	TUR		IZMIR	TUR	027E10 38N24	027E10 38N24	250	CP	304HF1BCN		ND			0000 2400	
2500	510.50	TUR		TRABZON	TUR	039E43 41N00	039E43 41N00	250	CP	304HF1BCN		ND			0000 2400	
1019	510.50	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	350	CP	100HA1A		ND			0000 2400	
1186	510.50	URS		ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	OT	100HA1A		ND			0000 2400	
1268	510.50	URS		KRASNOVODSK	URS	052E57 40N00	052E57 40N00	200	CP	100HA1A		ND			0000 2400	
1539	510.50	URS		TALLIN	URS	024E46 59N24	024E46 59N24	350	OT	100HA1A		ND			0000 2400	
2163	511.00	ALG		ORAN RADIO	ALG	000W08 35N46	000W08 35N46	850	CP	100HA1A		ND			0000 2400	
2657	511.00	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	100HA1A		ND			0000 2400	
29	511.00	BHR		BAHRAIN	BHR	050E28 26N09	050E28 26N09	800	CP	100HA1A		ND			0000 2400	
2682	511.00	CME		LIMBE	CME	009E22 04N02	009E22 04N02	400	CP	304HF1B		ND			0000 2400	
1832	511.00	F		ARCACHON	F	001W10 44N39	001W10 44N39	800	CP	304HF1B		ND			0000 2400	
2023	511.00	GRC		MOURNIES KRITIS	GRC	024E01 35N29	024E01 35N29	370	CO	100HA1AAN		ND			0000 2400	
2301	511.00	POL		GDYNIA	POL	018E32 54N32	018E32 54N32	1000	OT	2K10A2AAN		ND			0000 2400	
585	511.00	POR		SAGRES	POR	008W57 37N00	008W57 37N00	350	CO	100HA1A		ND			0000 2400	
2876	511.00	TUN		BIZERTE	TUN	009E48 37N09	009E48 37N09		CO	1K15A1B		ND			0000 2400	
2498	511.00	TUR		SAMSUN	TUR	036E20 41N17	036E20 41N17	250	CP	304HF1BCN		ND			0000 2400	
1000	511.00	URS		ILITCHEVSK	UKR	030E41 46N19	030E41 46N19	200	CO	100HA1A		ND			0000 2400	
1279	511.00	URS		TCHELEKEN	URS	053E24 39N24	053E24 39N24	200	CO	100HA1A		ND			0000 2400	
2149	511.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	400	CP	304HF1B		ND			0000 2400	
2173	511.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	800	CP	100HA1A		ND			0000 2400	
2648	511.50	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	100HA1A		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2779	511.50	CME		DOUALA	CME	009E42 04N02	009E42 04N02	400	CP 300HA1B			ND			0000 2400	
2482	511.50	CTI		S. PEDRO PORT	CTI	006W37 04N44	006W37 04N44	200	CR 304HF1B			ND			0000 2400	
1755	511.50	D		NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 010E30 58N15 004E30 58N20 001W00 55N40 000W30 51N00 000E50 49N40		CP 100HA1AAN			ND			0000 2400	
2031	511.50	DNK		TORSHAVN	DNK	006W47 62N01	006W47 62N01	400	CP 100HA1A			ND			0000 2400	
474	511.50	E		FINISTERRE RADIO	E	009W16 42N54	009W16 42N54	555	CP 100HA1AAN			ND			0000 2400	
388	511.50	FNL		HELSINKI	FNL	025E54 60N29	025E54 60N29	1500	CP 100HA1A			ND			0000 2400	
2024	511.50	GRC		MOURNIES KRITIS	GRC	024E01 35N29	024E01 35N29	370	CO 300HF1BCN			ND			0000 2400	
620	511.50	I		ANCONA	I	013E28 43N36	013E28 43N36	600	CP 100HA1A			ND			0000 2400	
895	511.50	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01		CR 2K10A2AAN			ND			0000 2400	
1665	511.50	NOR		ROERVIK	NOR	011E12 64N50	011E12 64N50	180	CP 100HA1A			ND			0000 2400	
1041	511.50	URS		BELGOROD-DNESTROVSKY	UKR	030E22 46N11	030E22 46N11	200	CO 100HA1A			ND			0000 2400	
1157	511.50	URS		ANAPA	URS	037E20 44N54	037E20 44N54	200	CO 100HA1A			ND			0000 2400	
1271	511.50	URS		BEKTACH	URS	052E34 41N37	052E34 41N37	200	CO 100HA1A			ND			0000 2400	
1288	511.50	URS		MUMRA	URS	047E41 45N45	047E41 45N45	200	CO 100HA1A			ND			0000 2400	
2101	512.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	850	CP 100HA1A			ND			0000 2400	
2033	512.50	DNK		TORSHAVN	DNK	006W46 62N01	006W46 62N01	800	CO 100HA1A			ND			0000 2400	
90	512.50	G		LANDS END RADIO	G	005W40 50N07	005W40 50N07	320	CP 304HF1BCN			ND			0000 2400	
643	512.50	I		TRIESTE	I	013E46 45N40	013E46 45N40	600	CP 100HA1A			ND			0000 2400	
2589	512.50	QAT		DOHA	QAT	051E35 25N45	051E35 25N45	800	CP 100HA1A			ND			0000 2400	
2493	512.50	TUR		ANTALYA	TUR	030E42 36N53	030E42 36N53	250	CP 100HA1AAN			ND			0000 2400	
1273	512.50	URS		BEKTACH	URS	052E34 41N37	052E34 41N37	200	CO 100HA1A			ND			0000 2400	
1569	512.50	URS		KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CO 100HA1A			ND			0000 2400	
1162	512.50	URS		VILKOVO	URS	029E36 45N25	029E36 45N25	200	CO 100HA1A			ND			0000 2400	
2695	513.00	E		ALBORAN	E	003W02 35N56	003W02 35N56	500	CP 100HA1A			ND			0000 2400	
623	513.00	I		AUGUSTA	I	015E13 37N13	015E13 37N13	600	CP 100HA1A			ND			0000 2400	
541	513.00	IRL		MALIN HEAD	IRL	007W21 55N22	007W21 55N22	500	CP 100HA1A			ND			0000 2400	
2458	513.00	ISR		ELAT RADIO	ISR	034E56 29N30	034E56 29N30	1000	CP 304HF1B			ND			0000 2400	
370	513.00	S		GOETEBORG RADIO	S	011E56 57N28	011E56 57N28	500	CP 100HA1A			ND			0000 2400	
2488	513.00	TUR		ISTANBUL	TUR	028E56 41N04	028E56 41N04	400	CP 100HA1AAN			ND			0000 2400	
1062	513.00	URS		JDANOV	UKR	037E31 47N08	037E31 47N08	350	CO 100HA1A			ND			0000 2400	
1516	513.00	URS		LENINGRAD	URS	030E21 59N59	030E21 59N59	350	CP 100HA1A			ND			0000 2400	
1210	513.00	URS		MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CP 100HA1A			ND			0000 2400	
1373	513.00	URS		UMBA	URS	034E22 66N41	034E22 66N41	200	CP 100HA1A			ND			0000 2400	
2028	513.50	DNK		SKAGEN	DNK	010E34 57N44	010E34 57N44	350	CP 304HF1B			ND			0000 2400	
504	513.50	E		BAGUR RADIO	E	003E13 41N58	003E13 41N58	555	CP 100HA1AAN			ND			0000 2400	
660	513.50	I		AUGUSTA	I	015E13 37N13	015E13 37N13	350	CP 304HF1B			ND			0000 2400	
681	513.50	I		TRIESTE	I	013E46 45N40	013E46 45N40	250	CP 304HF1B			ND			0000 2400	
543	513.50	IRL		MALIN HEAD	IRL	007W21 55N22	007W21 55N22	500	CP 300HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2912	513.50	IRQ		FAO	IRQ	048E29 29N58	048E29 29N58	400	CV	100HA1A		ND			0000 2400	
2908	513.50	OMA		MUSCAT	OMA	058E30 23N37	058E30 23N37	400	CR	304HF1BCN		ND			0000 2400	
2491	513.50	TUR		CANAKKALE	TUR	026E24 40N08	026E24 40N08	250	CP	304HF1BCN		ND			0000 2400	
969	513.50	URS		NIKOLAEV	UKR	032E00 46N57	032E00 46N57	200	OT	100HA1A		ND			0000 2400	
1416	513.50	URS		VENTSPILS	URS	021E32 57N24	021E32 57N24	350	CO	100HA1A		ND			0000 2400	
850	513.50	YUG		BAR	YUG	019E06 42N01	019E06 42N01	200	CP	134HJ2BCN		ND			0000 2400	
2520	514.00	BHR		BAHRAIN	BHR	050E28 26N09	050E28 26N09	800	CP	100HA1A		ND			0000 2400	
2795	514.00	CPV		PRAIA	CPV	023W30 14N55	023W30 14N55	1000	CP	2K00R2B		ND			1000 2000	
521	514.00	E		LAS PALMAS RADIO	CNR	015W36 27N45	015W36 27N45	555	CP	304HF1BCN		ND			0000 2400	
391	514.00	FNL		VAASA	FNL	021E09 63N19	021E09 63N19	500	CP	100HA1A		ND			0000 2400	
92	514.00	G		NORWICK RADIO	G	000W45 60N29	000W45 60N29	320	CP	304HF1BCN		ND			0000 2400	
2006	514.00	GRC		LIMNOS	GRC	025E11 39N54	025E11 39N54	370	CP	100HA1AAN		ND			0000 2400	
2070	514.00	ISL		REYKJAVIK RADIO	ISL	021W51 64N05	021W51 64N05	900	CP	100HA1A		ND			0000 2400	
1924	514.00	MRC		NADOR	MRC	002W56 35N10	002W56 35N10	350	CP	75H0A1A		ND			0000 2400	
2345	514.00	POL		WITOWO	POL	016E32 54N33	016E32 54N33	300	CP	2K10A2AAN		ND			0000 2400	
2391	514.00	TUN		KELIBIA RADIO	TUN	008E46 36N50	014E14 40N50	008E56 44N25	CP	2K10A2AAN		ND			0600 1900	
							012E21 41N48	010E19 43N29								
							005E21 43N19	013E11 32N54								
998	514.00	URS		OTCHAKOV	UKR	031E30 46N37	031E30 46N37	200	CP	100HA1A		ND			0000 2400	
1331	514.00	URS		ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	200	OT	100HA1A		ND			0000 2400	
1222	514.00	URS		BAKU	URS	049E45 40N20	049E45 40N20	350	CP	100HA1A		ND			0000 2400	
1257	514.00	URS		GURIEV	URS	051E55 47N03	051E55 47N03	200	CP	100HA1A		ND			0000 2400	
2151	514.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	400	CP	340HF1B		ND			0000 2400	
2176	514.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	300	CP	340HF1B		ND			0000 2400	
2160	514.50	ALG		TENES RADIO	ALG	001E18 36N32	001E18 36N32	900	CP	340HF1B		ND			0000 2400	
2791	514.50	CPV		PRAIA	CPV	023W30 14N55	023W30 14N55	1000	CP	2K00R2B		ND			1000 2000	
1837	514.50	F		MARSEILLE	F	005E21 43N19	005E21 43N19	800	CP	304HF1B		ND			0000 2400	
626	514.50	I		BARI	I	017E25 40N26	017E25 40N26	600	CP	100HA1A		ND			0000 2400	
34	514.50	JOR		AQABA RADIO	JOR	034E59 29N33	034E59 29N33	1000	CP	100HA1A		ND			0000 2400	
2528	514.50	KWT		HUBAN	KWT	047E41 29N31	047E41 29N31	800	CP	2K10A2B		ND			0000 2400	
2372	514.50	OMA		MUSCAT	OMA	058E30 23N37	058E30 23N37	400	CP	304HF1BCN		ND			0000 2400	
354	514.50	S		AELVSBORG RADIO	S	011E30 58N30	011E30 58N30	400	CO	100HA1A		ND			0000 2400	
2822	514.50	SDN		PT SUDAN	SDN	037E14 19N38	037E14 19N38	400	CP	100HA1A		ND			0000 2400	
2823	514.50	SOM		MOGADISCIO	SOM	045E20 02N02	045E20 02N02	400	CO	100HA1A		ND			0000 2400	
2485	514.50	TUR		TOPHANE KULESI	TUR	028E59 41N01	028E59 41N01	250	CO	100HA1AAN		ND			0000 2400	
1152	514.50	URS		NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CP	100HA1A		ND			0000 2400	
32	514.50	YMS		HISWA	YMS	044E54 12N49	044E54 12N49	800	CP	100HA1AAN		ND			0000 2400	
2119	515.00	ALG		ORAN RADIO	ALG	000W08 35N46	000W08 35N46	400	CP	340HF1B		ND			0000 2400	
1967	515.00	BUL		BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12	030E46 46N30	CO	304HF1B		ND			0000 2400	
							037E47 44N43	041E38 41N39								
							036E21 41N19	028E58 41N01								

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2794	515.00	CPV		PRAIA	CPV	023W30 14N55	023W30 14N55	1000	CP	500HA1B		ND			1000 2000	
2013	515.00	GRC		HERAKLION	GRC	025E45 35N19	025E45 35N19	370	CP	100HA1AAN		ND			0000 2400	
538	515.00	IRL		VALENTIA	IRL	010W21 51N56	010W21 51N56	500	CP	100HA1A		ND			0000 2400	
2526	515.00	KWT		AHMADI	KWT	048E04 29N06	048E04 29N06	800	CV	100HA1A		ND			0300 2100	
1920	515.00	MRC		LAAYOUNE	MRC	013W13 27N10	013W13 27N10	400	CP	75H0A1A		ND			0000 2400	
2339	515.00	POL		SZCZECIN	POL	014E35 53N28	014E35 53N28	800	CP	2K10A2AAN		ND			0000 2400	
2062	515.00	TUN		TUNIS RADIO	TUN	010E11 36N53	003E18 36N40 001E54 41N16 020E03 32N07 033E26 35N09 005E21 43N19 012E31 41N48		CP	100HA1A		ND			0000 2400	
1524	515.00	URS		PETROZAVODSK	URS	034E19 61N48	034E19 61N48	200	CO	100HA1A		ND			0000 2400	
1547	515.00	URS		TALLIN	URS	024E46 59N24	024E46 59N24	350	CP	100HA1A		ND			0000 2400	
1101	515.00	URS		TEMRIUK	URS	037E24 45N17	037E24 45N17	350	OT	100HA1A		ND			0000 2400	
2799	515.50	CPV		S VICENTE	CPV	025W00 16N51	025W00 16N51	800	CO	100HA1A		ND			0000 2400	
2689	515.50	E		CABO PALOS	E	000W42 37N38	000W42 37N38	500	CP	100HA1A		ND			0000 2400	
2810	515.50	EGY		TOR RADIO	EGY	033E35 28N15	033E35 28N15	800	CP	500HA1A		ND			0000 2400	
393	515.50	FNL		HELSINKI	FNL	025E54 60N29	025E54 60N29	500	CP	304HF1B		ND			0000 2400	
79	515.50	G		CULLERCOATS RADIO	G	001W28 55N04	001W28 55N04	320	CP	100HA1A		ND			0000 2400	
2005	515.50	GRC		LIMNOS	GRC	025E11 39N54	025E11 39N54	370	CP	100HA1AAN		ND			0000 2400	
2532	515.50	KWT		RAS ALZOOR	KWT	048E56 28N28	048E56 28N28	800	CP	340HF1B		ND			0300 2100	
2337	515.50	POL		SZCZECIN	POL	014E35 53N28	014E35 53N28	800	CP	2K10A2AAN		ND			0000 2400	
2739	515.50	TUN		BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16	300	CP	100HA1A		ND			0600 1900	
927	515.50	URS		KERTCH	UKR	036E28 45N22	036E28 45N22	350	CO	100HA1A		ND			0000 2400	
841	515.50	YUG		ZADAR	YUG	015E14 44N07	015E14 44N07	250	CP	100HA1AAN		ND			0000 2400	
2128	516.00	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1450	CP	100HA1A		ND			0000 2400	
1905	516.00	ARS		DAMMAMRADIO	ARS	050E06 26N26	050E06 26N26	700	CP	100HA1AAN		ND			0000 2400	
2780	516.00	CPV		MINDELO	CPV	024W59 16N53	024W59 16N53	1000	CP	500HA1B		ND			0000 2400	
394	516.00	FNL		MARIEHAMN	FNL	019E57 60N07	019E57 60N07	500	CP	304HF1B		ND			0000 2400	
432	516.00	HOL		DEN HELDER	HOL	004E45 52N55	004E45 52N55	500	CP	280HF1BCN		ND			0000 2400	
2892	516.00	LBY		BENGHAZI	LBY	020E04 32N07	020E04 32N07	700	CP	100HA1AAN		ND			0000 2400	
1922	516.00	MRC		DAKHLA	MRC	015W56 23N42	015W56 23N42	400	CP	75H0A1A		ND			0000 2400	
582	516.00	POR		MONSANTO	POR	009W11 38N44	009W11 38N44	1500	CO	100HA1A		ND			0000 2400	
959	516.00	URS		SEVASTOPOL	UKR	033E32 44N34	033E32 44N34	350	CO	100HA1A		ND			0000 2400	
844	516.00	YUG		BAR	YUG	019E06 42N01	019E06 42N01	300	CP	100HA1AAN		ND			0000 2400	
2369	516.50	BHR		BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CO	100HA1A		ND			0000 2400	
2793	516.50	CPV		PRAIA	CPV	023W30 14N55	023W30 14N55	1000	CP	2K00R2B		ND			1000 2000	
2027	516.50	DNK		SKAGEN	DNK	010E34 57N44	010E34 57N44	350	CP	100HA1A		ND			0000 2400	
2032	516.50	DNK		TORSHAVN	DNK	006W47 62N01	006W47 62N01	400	CP	304HF1B		ND			0000 2400	
496	516.50	E		CARTAGENA	E	000W58 37N36	000W58 37N36	600	CO	100HA1AAN		ND			0000 2400	
1817	516.50	F		S DENIS	REU	055E36 20S54	055E27 20S51	800	CP	304HF1B		ND			0000 2400	
91	516.50	G		NORTH FORELAND RADIO	G	001E25 51N22	001E25 51N22	240	CP	304HF1BCN		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1991	516.50	GRC		ASPROPYRGOS	GRC	023E35 38N02	023E35 38N02	370	CO	100HA1A		ND			0000 2400	
633	516.50	I		GENOVA	I	008E56 44N25	008E56 44N25	50	CP	100HA1A		ND			0000 2400	
2281	516.50	ISR		HAIFA NAVAL RADIO	ISR	035E03 32N49	035E03 32N49	1000	CO	304HF1B		ND			0000 2400	
1929	516.50	MRC		AGADIR-RADIO	MRC	009W33 30N22	009W33 30N22	400	CP	75H0A1A		ND			0000 2400	
1151	516.50	URS		NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CP	100HA1A		ND			0000 2400	
847	516.50	YUG		ZADAR	YUG	015E14 44N07	015E14 44N07	250	CP	134HJ2BCN		ND			0000 2400	
2790	517.00	CPV		PRAIA	CPV	023W30 14N55	023W30 14N55	1000	CP	500HA1B		ND			1000 2000	
497	517.00	E		CARTAGENA	E	000W58 37N36	000W58 37N36	600	CO	304HF1BCN		ND			0000 2400	
1829	517.00	F		LE CONQUET	F	004W44 48N20	004W44 48N20	800	CP	304HF1B		ND			0000 2400	
87	517.00	G		WICK RADIO	G	003W06 58N26	003W06 58N26	320	CP	100HA1A		ND			0000 2400	
2020	517.00	GRC		SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370	CO	100HA1AAN		ND			0000 2400	
648	517.00	I		LA SPEZIA	I	009E43 44N06	009E43 44N06	380	CO	304HF1B		ND			0000 2400	
614	517.00	I		MOLFETTA	I	016E36 41N12	016E36 41N12	80	CV	100HA1A		ND			0800 1700	
893	517.00	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR	2K10A2AAN		ND			0000 2400	
2071	517.00	ISL		REYKJAVIK RADIO	ISL	021W51 64N05	021W51 64N05	900	CP	100HA1A		ND			0000 2400	
1602	517.00	MDG		TOAMASINA	MDG	049E24 18S08	049E24 18S08	500	CP	100HA1A		ND			0000 2400	
2880	517.00	TUN		C BLANC	TUN	009E50 37N20	009E50 37N20	100	CO	100HA1A		ND			0000 2400	
973	517.00	URS		NIKOLAEV	UKR	032E00 46N57	032E00 46N57	200	CO	100HA1A		ND			0000 2400	
1441	517.00	URS		TARAN	URS	019E59 54N58	019E59 54N58	350	CO	100HA1A		ND			0000 2400	
1170	517.00	URS		TEMRIUK	URS	037E24 45N17	037E24 45N17	200	CO	100HA1A		ND			0000 2400	
2130	519.00	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1450	CP	340HF1B		ND			0000 2400	
2707	519.00	E		CADIZ	E	006W16 36N30	006W16 36N30	500	CP	100HA1A		ND			0000 2400	
2692	519.00	E		LAS PALMAS	E	015W36 27N45	015W36 27N45	600	CP	100HA1A		ND			0000 2400	
2000	519.00	GRC		ATHINAI	GRC	023E53 38N00	023E53 38N00	370	CP	100HA1AAN		ND			0000 2400	
2262	519.00	MAU		MAURITIUS RADIO	MAU	057E30 20S20	057E30 20S20	600	CP	100HA1AAN		ND			0000 2400	
1679	519.00	NOR		HARSTAD	NOR	018E57 69N39	018E57 69N39	370	CO	100HA1A		ND			0000 2400	
1674	519.00	NOR		SVALBARD	NOR	013E38 78N04	013E38 78N04	370	CP	100HA1A		ND			0000 2400	
381	519.00	S		STOCKHOLM RADIO	S	018E43 59N17	018E43 59N17	500	CP	100HA1A		ND			0000 2400	
997	519.00	URS		OTCHAKOV	UKR	031E30 46N37	031E30 46N37	200	CP	100HA1A		ND			0000 2400	
1333	519.00	URS		ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	500	CO	100HA1A		ND			0000 2400	
1301	519.00	URS		TAGANROG	URS	038E53 47N13	038E53 47N13	200	CO	100HA1A		ND			0000 2400	
848	519.00	YUG		SPLIT	YUG	016E29 43N30	016E29 43N30	300	CP	134HJ2BCN		ND			0000 2400	
1609	519.50	ALB		VLORE PT RADIO	ALB	019E29 40N27	019E29 40N27	350	CP	100HA1AAN		ND			0000 2400	
1965	519.50	BUL		VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO	100HA1A		ND			0000 2400	
1760	519.50	D		KIEL RADIO	D	010E08 54N26	010E10 54N30 019E35 54N20 019E20 56N00 017E50 57N40 009E00 59N30 009E00 55N55		CP	304HF1BCN		ND			0000 2400	
486	519.50	E		TARIFA RADIO	E	005W33 36N03	005W33 36N03	555	CP	100HA1AAN		ND			0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 21 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1836	519.50		F	MARSEILLE	F	005E21 43N19	005E21 43N19	800	CP	304HF1B		ND			0000 2400	
93	519.50		G	PORTPATRICK RADIO	G	005W07 54N51	005W07 54N51	240	CP	304HF1BCN		ND			0000 2400	
2427	519.50		MLT	XLOKK RADIO	MLT	014E32 35N49	014E32 35N49	1000	CP	304HF1BCN		ND			0000 2400	
2542	519.50		POR	LAJES	AZR	027W06 38N46	027W06 38N46	750	CO	100HA1A		ND			0000 2400	
607	519.50		POR	MADEIRA	MDR	016W50 32N38	016W50 32N38	400	CP	100HA1AAN		ND			0000 2400	
1070	519.50		URS	JDANOV	UKR	037E31 47N08	037E31 47N08	350	CP	100HA1A		ND			0000 2400	
1181	519.50		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CO	100HA1A		ND			0000 2400	
1513	519.50		URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	350	CP	100HA1A		ND			0000 2400	
1317	519.50		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	350	CO	100HA1A		ND			0000 2400	
1350	519.50		URS	NARIAN-MAR	URS	053E00 67N39	053E00 67N39	200	CP	100HA1A		ND			0000 2400	
1611	520.00		ALB	DURRES PT RADIO	ALB	019E26 41N27	019E26 41N27	200	CP	100HA1AAN		ND			0000 2400	
2125	520.00		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46	1200	CP	100HA1A		ND			0000 2400	
1758	520.00		D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 010E30 58N15		CP	304HF1BCN		ND			0000 2400	
							004E30 58N20 001W00 55N40									
							000W30 51N00 000E50 49N40									
390	520.00		FNL	MARIEHAMN	FNL	019E57 60N07	019E57 60N07	1500	CP	100HA1A		ND			0000 2400	
630	520.00		I	CAGLIARI	I	009E07 39N15	009E07 39N15	600	CP	100HA1A		ND			0000 2400	
680	520.00		I	TRIESTE	I	013E46 45N40	013E46 45N40	250	CP	304HF1B		ND			0000 2400	
540	520.00		IRL	VALENTIA	IRL	010W21 51N56	010W21 51N56	500	CP	300HF1B		ND			0000 2400	
586	520.00		POR	LISBOA	POR	009W14 38N44	009W14 38N44	400	CP	304HF1BCN		ND			0000 2400	
946	520.00		URS	IALTA	UKR	034E10 44N39	034E10 44N39	200	CO	100HA1A		ND			0000 2400	
1474	520.00		URS	BELOMORSK	URS	034E41 64N36	034E41 64N36	200	OT	100HA1A		ND			0000 2400	
2142	520.50		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32	900	CP	340HF1B		ND			0000 2400	
344	520.50		DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35	1000	CP	100HA1A		ND			0000 2400	
1831	520.50		F	LE CONQUET	F	004W44 48N20	004W44 48N20	800	CP	304HF1B		ND			0000 2400	
637	520.50		I	NAPOLI	I	014E14 40N50	014E14 40N50	600	CP	100HA1A		ND			0000 2400	
2439	520.50		ROU	CONSTANTA	ROU	028E37 44N06	028E37 44N06	700	CP	304HF1B		ND			0000 2400	
1608	521.00		ALB	VLORE PT RADIO	ALB	019E29 40N27	019E29 40N27	350	CP	100HA1AAN		ND			0000 2400	
2172	521.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	800	CP	100HA1A		ND			0000 2400	
1827	521.00		F	BOULOGNE	F	001E38 50N43	001E37 50N43	800	CP	304HF1B		ND			0000 2400	
679	521.00		I	TRIESTE	I	013E46 45N40	013E46 45N40	250	CP	304HF1B		ND			0000 2400	
2302	521.00		POL	GDYNIA	POL	018E32 54N32	018E32 54N32	1000	CP	2K10A2AAN		ND			0000 2400	
2737	521.00		TUN	BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16	300	CP	100HA1A		ND			0600 1900	
1016	521.00		URS	ODESSA	UKR	030E45 46N29	030E45 46N29	350	CP	100HA1A		ND			0000 2400	
1349	521.00		URS	NARIAN-MAR	URS	053E00 67N39	053E00 67N39	200	CO	100HA1A		ND			0000 2400	
1482	521.00		URS	PERTOMINSK	URS	038E27 64N48	038E27 64N48	200	CO	100HA1A		ND			0000 2400	
1556	521.00		URS	VYBORG	URS	028E46 60N42	028E46 60N42	200	CO	100HA1A		ND			0000 2400	
2124	521.50		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46	1200	CP	100HA1A		ND			0000 2400	
1966	521.50		BUL	BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12 030E46 46N30		CO	100HA1A		ND			0000 2400	
							037E47 44N43 041E38 41N39									
							036E21 41N19 028E58 41N01									

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2802	521.50		EGY	ALEXANDRIA RADIO	EGY	029E51 31N11	029E51 31N11 1000		CP 500HA1A			ND			0000 2400	
1820	521.50		F	BREST	F	004W19 48N26	001W45 43N23 010W00 44N10 010W00 50N00 005W00 50N00 000W01 50N45 000W01 49N25		CO 304HF1BBN			ND			0000 2400	
640	521.50		I	ROMA	I	012E31 41N48	012E31 41N48 600		CP 100HA1A			ND			0000 2400	
1672	521.50		NOR	BODOE	NOR	014E23 67N16	014E23 67N16 370		CP 100HA1A			ND			0000 2400	
371	521.50		S	GOETEBORG RADIO	S	011E56 57N28	011E56 57N28 500		CP 280HF1B			ND			0000 2400	
1068	521.50		URS	JDANOV	UKR	037E31 47N08	037E31 47N08 350		CP 100HA1A			ND			0000 2400	
1358	521.50		URS	MEZEN	URS	044E17 65N51	044E17 65N51 200		CO 100HA1A			ND			0000 2400	
1320	521.50		URS	MURMANSK	URS	033E10 68N58	033E10 68N58 350		OT 100HA1A			ND			0000 2400	
2171	522.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06 750		CP 340HF1B			ND			0000 2400	
1969	522.00		BUL	BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO 100HA1A			ND			0000 2400	
671	522.00		I	GENOVA	I	008E56 44N25	008E56 44N25 250		CP 304HF1B			ND			0000 2400	
2540	522.00		I	MAZARA VALLO	I	012E34 37N38	012E34 37N38 600		CP 100HA1A			ND			0000 2400	
537	522.00		IRL	HAULBOWLINE	IRL	008W18 51N50	008W18 51N50 500		CO 300HF1B			ND			0000 2400	
903	522.00		S	STOCKHOLM RADIO	S	014E19 55N29	014E19 55N29 500		CP 100HA1A			ND			0000 2400	
1322	522.00		URS	MURMANSK	URS	033E10 68N58	033E10 68N58 500		CO 100HA1A			ND			0000 2400	
1149	522.00		URS	NOVOROSSIISK	URS	037E42 44N42	037E42 44N42 350		CP 100HA1A			ND			0000 2400	
2105	522.50		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40 1000		CP 340HF1B			ND			0000 2400	
501	522.50		E	FERROL	E	008W16 43N28	008W16 43N28 600		CO 304HF1BCN			ND			0000 2400	
430	522.50		HOL	SCHEVENINGEN	HOL	004E15 52N06	004E15 52N06 500		CP 280HF1BCN			ND			0000 2400	
627	522.50		I	BARI	I	017E25 40N26	017E25 40N26 600		CP 100HA1A			ND			0000 2400	
2837	522.50		LBY	TOBRUK	LBY	023E59 32N02	023E59 32N02 400		CV 100HA1A			ND			0000 2400	
366	522.50		S	TINGSTAEDE RADIO	S	018E36 57N44	018E36 57N44 400		CP 100HA1A			ND			0000 2400	
1031	522.50		URS	IZMAIL	UKR	028E51 45N20	028E51 45N20 350		CO 100HA1A			ND			0000 2400	
1058	522.50		URS	JDANOV	UKR	037E31 47N08	037E31 47N08 200		CP 304HF1B			ND			0000 2400	
1329	522.50		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36 350		CP 100HA1A			ND			0000 2400	
1756	523.00		D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 010E30 58N15 004E30 58N20 001W00 55N40 000W30 51N00 000E50 49N40		CP 100HA1AAN			ND			0000 2400	
457	523.00		E	CABO DE LA NAO RADIO	E	000E11 38N43	000E11 38N43 555		CP 304HF1BCN			ND			0000 2400	
621	523.00		I	ANCONA	I	013E28 43N36	013E28 43N36 600		CP 100HA1A			ND			0000 2400	
588	523.00		POR	LISBOA	POR	009W14 38N44	009W14 38N44 400		CP 304HF1BCN			ND			0000 2400	
2435	523.00		ROU	AGIGEA	ROU	028E39 44N06	028E39 44N06 700		CP 304HF1B			ND			0000 2400	
378	523.00		S	HAERNOESAND RADIO	S	021E36 64N28	021E36 64N28 500		CP 280HF1B			ND			0000 2400	
2755	523.00		TUN	SFAX RADIO	TUN	010E44 34N44	010E44 34N44 300		CP 100HA1A			ND			0600 2400	
2497	523.00		TUR	MERSIN	TUR	034E36 36N49	034E36 36N49 250		CP 304HF1BCN			ND			0000 2400	
1338	523.00		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36 350		CP 100HA1A			ND			0000 2400	
1227	523.00		URS	BAKU	URS	049E45 40N20	049E45 40N20 350		CO 100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1121	523.00	URS		BATUMI	URS	041E19 41N39	041E19 41N39 350		CP 100HA1A			ND			0000 2400	
1255	523.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30 200		CO 100HA1A			ND			0000 2400	
1380	523.00	URS		KLAIPEDA	URS	021E12 55N46	021E12 55N46 350		CP 100HA1A			ND			0000 2400	
2143	523.50	ALG		TENES RADIO	ALG	001E18 36N32	001E18 36N32 900		CP 340HF1B			ND			0000 2400	
1964	523.50	BUL		VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30		CO 100HA1A			ND			0000 2400	
							037E47 44N43 041E38 41N39									
							036E21 41N19 028E58 41N01									
2030	523.50	DNK		BLAAVAND	DNK	008E07 55N33	008E07 55N33 350		CP 304HF1B			ND			0000 2400	
389	523.50	FNL		HELSINKI	FNL	025E54 60N29	025E54 60N29 1500		CP 100HA1A			ND			0000 2400	
624	523.50	I		AUGUSTA	I	015E13 37N13	015E13 37N13 600		CP 100HA1A			ND			0000 2400	
645	523.50	I		TRIESTE	I	013E46 45N40	013E46 45N40 250		CP 100HA1A			ND			0000 2400	
539	523.50	IRL		VALENTIA	IRL	010W21 51N56	010W21 51N56 500		CP 100HA1A			ND			0000 2400	
2914	523.50	IRQ		BASRAH	IRQ	047E47 30N33	047E47 30N33 400		CV 100HA1A			ND			0000 2400	
2283	523.50	ISR		HAIFA RADIO	ISR	035E00 32N48	035E00 32N48 1000		CP 304HF1B			ND			0000 2400	
1668	523.50	NOR		HARSTAD	NOR	018E57 69N39	018E57 69N39 370		CP 100HA1A			ND			0000 2400	
1179	523.50	URS		ASTRAKHAN	URS	047E42 46N55	047E42 46N55 350		CP 100HA1A			ND			0000 2400	
1225	523.50	URS		BAKU	URS	049E45 40N20	049E45 40N20 350		CO 100HA1A			ND			0000 2400	
1154	523.50	URS		TUAPSE	URS	039E05 44N01	039E05 44N01 200		CO 100HA1A			ND			0000 2400	
2107	524.00	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40 1000		CP 100HA1A			ND			0000 2400	
478	524.00	E		FINISTERRE RADIO	E	009W16 42N54	009W16 42N54 555		CP 304HF1BCN			ND			0000 2400	
2559	524.00	EGY		ALEXANDRIA RADIO	EGY	029E52 31N12	029E52 31N12 500		CP 500HA1AA			ND			0000 2400	
634	524.00	I		GENOVA	I	008E56 44N25	008E56 44N25 250		CP 100HA1A			ND			0000 2400	
655	524.00	I		TARANTO	I	017E25 40N26	017E25 40N26 380		CO 304HF1B			ND			0000 2400	
1682	524.00	NOR		KRISTIANSAND S	NOR	007E59 58N03	007E59 58N03 370		CO 400HF1B			ND			0000 2400	
2486	524.00	TUR		ISTANBUL	TUR	028E56 41N04	028E56 41N04 400		CP 304HF1BCN			ND			0000 2400	
1055	524.00	URS		BERDIANSK	UKR	036E48 46N47	036E48 46N47 200		CP 100HA1A			ND			0000 2400	
1390	524.00	URS		RIGA	URS	024E05 56N57	024E05 56N57 350		CO 100HA1A			ND			0000 2400	
489	524.50	E		TARIFA RADIO	E	005W33 36N03	005W33 36N03 555		CP 304HF1BCN			ND			0000 2400	
395	524.50	FNL		VAASA	FNL	021E09 63N19	021E09 63N19 500		CP 304HF1B			ND			0000 2400	
2015	524.50	GRC		HERAKLION	GRC	025E45 35N19	025E45 35N19 370		CP 304HF1BCN			ND			0000 2400	
644	524.50	I		TRIESTE	I	013E46 45N40	013E46 45N40 600		CP 100HA1A			ND			0000 2400	
2388	524.50	KEN		MOMBASA RADIO	KEN	039E44 03S58	039E40 04S05 1500		CP 100HA1AAN			ND			0000 2400	
2346	524.50	POL		WITOWO	POL	016E32 54N33	016E32 54N33 300		CP 2K10A2AAN			ND			0000 2400	
1747	524.50	POR		HORTA	AZR	028W38 38N32	028W38 38N32 750		CO 304HF1B			ND			0000 2400	
610	524.50	POR		MADEIRA	MDR	016W50 32N38	016W50 32N38 400		CP 304HF1BCN			ND			0000 2400	
2454	524.50	ROU		SULINA	ROU	029E39 45N09	029E39 45N09 700		CP 304HF1B			ND			0000 2400	
2771	524.50	TUN		KELIBIA RADIO	TUN	008E46 36N50	008E46 36N50 300		CP 100HA1A			ND			0600 1900	
1757	525.00	D		NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 010E30 58N15		CP 304HF1BCN			ND			0000 2400	
							004E30 58N20 001W00 55N40									
							000W30 51N00 000E50 49N40									

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
392	525.00	FNL		HELSINKI	FNL	025E54 60N29	025E54 60N29	500	CP	304HF1B		ND			0000 2400	
2010	525.00	GRC		KERKYRA	GRC	019E54 39N37	019E54 39N37	370	CP	100HA1AAN		ND			0000 2400	
1902	525.00	JOR		AQABA RADIO	JOR	034E59 29N33	034E59 29N33	1000	CP	100HA1A		ND			0000 2400	
2614	525.00	KEN		MOMBASA RADIO	KEN	039E44 03S58	039E44 03S58	600	CP	304HF1BCN		ND			0000 2400	
2274	525.00	MOZ		PEMBA RADIONAVAL	MOZ	040E29 12S58	040E29 12S58	500	CO	100HA1A		ND			0000 2400	
1680	525.00	NOR		HARSTAD	NOR	018E57 69N39	018E57 69N39	370	CO	400HF1B		ND			0000 2400	
1736	525.00	POR		MONSANTO	POR	009W11 38N44	009W11 38N44	500	CO	304HF1B		ND			0000 2400	
2750	525.00	TUN		TABARKA RADIO	TUN	006E25 36N57	006E25 36N57	500	CP	100HA1A		ND			0600 1900	
950	525.00	URS		IALTA	UKR	034E10 44N39	034E10 44N39	350	CP	100HA1A		ND			0000 2400	
839	525.00	YUG		KOPER	YUG	013E44 45N33	013E44 45N33	250	CP	100HA1AAN		ND			0000 2400	
2157	525.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	850	CP	340HF1B		ND			0000 2400	
2175	525.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	750	CP	340HF1B		ND			0000 2400	
2148	525.50	ALG		TENES RADIO	ALG	001E18 36N32	001E18 36N32	300	CP	304HF1B		ND			0000 2400	
337	525.50	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	350	CP	100HA1A		ND			0000 2400	
1815	525.50	F		S DENIS	REU	055E36 20S54	055E27 20S51	800	CP	304HF1B		ND			0000 2400	
1595	525.50	MDG		MAINTIRANO	MDG	044E01 18S03	044E01 18S03	350	CP	100HA1A		ND			0000 2400	
2425	525.50	MLT		XLOKK RADIO	MLT	014E32 35N49	014E32 35N49	1000	CP	100HA1AAN		ND			0000 2400	
2495	525.50	TUR		IZMIR	TUR	027E10 38N24	027E10 38N24	250	CP	304HF1BCN		ND			0000 2400	
1033	525.50	URS		IZMAIL	UKR	028E51 45N20	028E51 45N20	350	CP	100HA1A		ND			0000 2400	
1145	525.50	URS		NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CO	100HA1A		ND			0000 2400	
846	525.50	YUG		RIJEKA	YUG	014E33 45N07	014E33 45N07	300	CP	134HJ2BCN		ND			0000 2400	
2110	526.00	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40	500	CP	340HF1B		ND			0000 2400	
2129	526.00	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	400	CP	340HF1B		ND			0000 2400	
341	526.00	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	750	CP	300HF1B		ND			0000 2400	
676	526.00	I		ROMA	I	012E31 41N48	012E31 41N48	250	CP	304HF1B		ND			0000 2400	
944	526.00	URS		IALTA	UKR	034E10 44N39	034E10 44N39	200	CO	100HA1A		ND			0000 2400	
1014	526.00	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	350	OT	100HA1A		ND			0000 2400	
1427	526.00	URS		KALININGRAD	URS	020E30 54N45	020E30 54N45	350	CO	100HA1A		ND			0000 2400	
2116	1607.00	ALG		ORAN RADIO	ALG	000W08 35N46	000W08 35N46	400	CP	340HF1B		ND			0000 2400	
2653	1607.00	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	304HF1B		ND			0000 2400	
2858	1607.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP	304HF1B		ND			0000 2400	
479	1607.00	E		FINISTERRE RADIO	E	009W16 42N54	009W16 42N54	555	CP	304HF1BCN		ND			0000 2400	
1889	1607.00	F		MARSEILLE	F	005E21 43N19	005E21 43N19	1200	CP	304HF1B		ND			0000 2400	
397	1607.00	FNL		MARIEHAMN	FNL	019E57 60N07	019E57 60N07	500	CP	304HF1B		ND			0000 2400	
39	1607.00	G		ASCENSION	ASC	014W25 07S56	014W25 07S56	320	CP	304HF1BCN		ND			0000 2400	
436	1607.00	HOL		OUDDORP	HOL	003E53 51N48	003E53 51N48	500	CP	280HF1BCN		ND			0000 2400	
696	1607.00	I		CROTONE RADIO	I	017E08 39N03	017E08 39N03	600	CP	304HF1B		ND			0000 2400	
1700	1607.00	NOR		VARDOE	NOR	031E05 70N22	031E05 70N22	370	CP	400HF1B		ND			0000 2400	
1585	1607.00	URS		ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	250	CP	304HF1B		ND			0000 2400	
2464	1607.50	CTI		ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP	304HF1B		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1785	1607.50	D		BAD BRAMSTEDT	D	009E56 53N56	007E30 54N20	150	CO 150HF1B			ND			0000 2400	
401	1607.50	FNL		MARIEHAMN	FNL	019E57 60N07	019E57 60N07	500	CP 304HF1B			ND			0000 2400	
126	1607.50	G		MILLTOWN	G	003W14 57N40	003W14 57N40	275	CO 304HF1BCN			ND			0000 2400	
133	1607.50	G		ST EVAL	G	005W00 50N28	005W00 50N28	275	CO 304HF1BCN			ND			0000 2400	
694	1607.50	I		CAGLIARI	I	009E07 39N15	009E07 39N15	600	CP 304HF1B			ND			0000 2400	
886	1607.50	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR 276HF1BCN			ND			0000 2400	
2585	1607.50	TUR		ANTALYA	TUR	030E42 36N53	030E42 36N53	250	CP 304HF1BCN			ND			0000 2400	
1059	1607.50	URS		JDANOV	UKR	037E31 47N08	037E31 47N08	700	CP 304HF1B			ND			0000 2400	
862	1607.50	YUG		BAR	YUG	019E06 42N01	019E06 42N01	300	CP 304HF1BCN			ND			0000 2400	
2264	1608.00	ALB		DURRES PT RADIO	ALB	019E26 41N27	019E26 41N27	200	CP 134HJ2BCN			ND			0000 2400	
27	1608.00	BHR		BAHRAIN	BHR	050E28 26N09	050E28 26N09	800	CP 304HF1B			ND			0000 2400	
1812	1608.00	F		DZAOUDZI	MYT	045E17 12S48	045E17 12S48	800	CP 304HF1B			ND			0000 2400	
2068	1608.00	F		S DENIS	REU	055E36 20S53	055E36 20S53	800	CP 304HF1B			ND			0000 2400	
2017	1608.00	GRC		RHODOS	GRC	028E12 36N26	028E12 36N26	370	CP 304HF1BCN			ND			0000 2400	
433	1608.00	HOL		SCHEVENINGEN	HOL	004E15 52N06	004E15 52N06	500	CP 280HF1BCN			ND			0000 2400	
2884	1608.00	KEN		MOMBASA RADIO	KEN	039E34 03S58	039E34 03S58	1500	CP 100HA1AAN			ND			0000 2400	
2731	1608.00	OMA		SALALAH	OMA	054E06 17N01	054E06 17N01	400	CR 304HF1BCN			ND			0000 2400	
2870	1608.00	TUN		TUNIS RADIO	TUN	010E11 36N53	010E11 36N53	1000	CP 304HF1BCN			ND			0000 2400	
2511	1608.00	TUR		SAMSUN	TUR	036E20 41N17	036E20 41N17	250	CP 304HF1BCN			ND			0000 2400	
1400	1608.00	URS		RIGA	URS	024E05 56N57	024E05 56N57	700	CP 304HF1B			ND			0000 2400	
857	1608.00	YUG		KOPER	YUG	013E44 45N33	013E44 45N33	300	CP 304HF1BCN			ND			0000 2400	
2387	1608.40	AGL		SOYO	AGL	012E12 06S07	012E12 06S07	500	CP 2K80J3E			ND			0000 2400	
2571	1608.40	MRC		AGADIR RADIO	MRC	009W33 30N22	009W33 30N22	500	CP 2K80H3E			ND				
2220	1608.50	BEL		ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP 300HF1B			ND			0000 2400	
2860	1608.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP 304HF1B			ND			0000 2400	
2473	1608.50	CTI		ABIDJAN SANTE MARINE	CTI	004W01 05N18	004W01 05N18	200	CR 304HF1B			ND			0000 2400	
127	1608.50	G		MILLTOWN	G	003W14 57N40	003W14 57N40	275	CO 304HF1BCN			ND			0000 2400	
2607	1608.50	GRC		MOURNIES KRITIS	GRC	024E01 35N29	024E01 35N29	370	CO 304HF1BCN			ND			0000 2400	
703	1608.50	I		PALERMO RADIO	I	013E22 38N07	013E22 38N07	600	CP 304HF1B			ND			0000 2400	
884	1608.50	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR 276HF1BCN			ND			0000 2400	
2728	1608.50	OMA		MUSCAT	OMA	058E30 23N37	058E30 23N37	400	CR 304HF1BCN			ND			0000 2400	
2332	1608.50	POL		SWARZEWO	POL	018E24 54N46	018E24 54N46	600	OT 400HF1BCN			ND			0000 2400	
2654	1609.00	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
2859	1609.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP 304HF1B			ND			0000 2400	
128	1609.00	G		NORTH FORELAND RADIO	G	001E25 51N22	001E25 51N22	240	CP 304HF1BCN			ND			0000 2400	
2605	1609.00	GRC		SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370	CO 304HF1BCN			ND			0000 2400	
707	1609.00	I		TRAPANI RADIO	I	012E30 38N01	012E30 38N01	600	CP 304HF1B			ND			0000 2400	
2516	1609.00	TUR		ISKENDERUN	TUR	036E07 36N37	036E07 36N37	250	CP 304HF1BCN			ND			0000 2400	
2583	1609.00	TUR		ZONGULDAV	TUR	031E48 41N27	031E48 41N27	250	CP 304HF1BCN			ND			0000 2400	
1401	1609.00	URS		LIEPAIA	URS	021E00 56N32	021E00 56N32	700	CO 304HF1B			ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2223	1609.50		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	300	CP 300HF1B			ND			0000 2400	
2465	1609.50		CTI	ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP 304HF1B			ND			0000 2400	
105	1609.50		G	PORTPATRICK RADIO	G	005W07 54N51	005W07 54N51	240	CP 304HF1BCN			ND			0000 2400	
685	1609.50		I	TARANTO	I	017E25 40N26	017E25 40N26	400	CO 304HF1B			ND			0000 2400	
1676	1609.50		NOR	ROGALAND	NOR	005E34 58N48	005E34 58N48	370	CP 400HF1B			ND			0000 2400	
2328	1609.50		POL	SOBIESZEWO	POL	018E51 54N21	018E51 54N21	600	OT 400HF1BCN			ND			0000 2400	
2447	1609.50		ROU	MANGALIA	ROU	028E35 43N48	028E35 43N48	500	CP 304HF1B			ND			0000 2400	
2150	1610.00		ALG	BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	400	CP 340HF1B			ND			0000 2400	
2474	1610.00		CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	004W01 05N18	200	CR 304HF1B			ND			0000 2400	
2039	1610.00		DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33	350	CP 304HF1B			ND			0000 2400	
490	1610.00		E	TARIFA RADIO	E	005W33 36N03	005W33 36N03	555	CP 304HF1BCN			ND			0000 2400	
402	1610.00		FNL	VAASA	FNL	021E09 63N19	021E09 63N19	500	CP 304HF1B			ND			0000 2400	
701	1610.00		I	MESSINA RADIO	I	015E33 38N11	015E33 38N11	600	CP 304HF1B			ND			0000 2400	
889	1610.00		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01		CR 276HF1BCN			ND			0000 2400	
2284	1610.00		ISR	HAIFA RADIO	ISR	035E00 32N48	035E00 32N48	1000	CP 304HF1B			ND			0000 2400	
386	1610.00		S	STOCKHOLM RADIO	S	014E19 55N29	014E19 55N29	500	CP 280HF1B			ND			0000 2400	
1206	1610.00		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CO 304HF1B			ND			0000 2400	
2117	1610.50		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46	400	CP 304HF1B			ND			0000 2400	
1890	1610.50		F	MARSEILLE	F	005E21 43N19	005E21 43N19	1200	CP 304HF1B			ND			0000 2400	
437	1610.50		HOL	DEN HELDER	HOL	004E45 52N55	004E45 52N55	500	CP 280HF1BCN			ND			0000 2400	
693	1610.50		I	BARI RADIO	I	016E59 41N05	016E59 41N05	600	CP 304HF1B			ND			0000 2400	
2330	1610.50		POL	SUCHACZ	POL	019E28 54N17	019E28 54N17	600	OT 400HF1BCN			ND			0000 2400	
376	1610.50		S	HAERNOESAND RADIO	S	018E08 62N43	018E08 62N43	500	CP 280HF1B			ND			0000 2400	
2514	1610.50		TUR	IZMIR	TUR	027E10 38N24	027E10 38N24	250	CP 304HF1BCN			ND			0000 2400	
2512	1610.50		TUR	MERSIN	TUR	034E36 36N49	034E36 36N49	250	CP 304HF1BCN			ND			0000 2400	
2581	1610.50		TUR	TRABZON	TUR	039E43 41N00	039E43 41N00	250	CP 304HF1BCN			ND			0000 2400	
1571	1610.50		URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	200	CO 304HF1B			ND			0000 2400	
1778	1611.00		D	WILHELMSHAVEN	D	007E37 53N41	005E00 58N00 010E00 58N00 015E00 54N00 002E00 51N00		CO 304HF1B			ND			0000 2400	
1879	1611.00		F	QUIMPERLE	F	003W30 47N52	003W30 47N52	500	CP 304HF1B			ND			0000 2400	
121	1611.00		G	CLYDE (TOWARD)	G	004W59 55N52	004W59 55N52	275	CO 304HF1BCN			ND			0000 2400	
2008	1611.00		GRC	LIMNOS	GRC	025E11 39N54	025E11 39N54	370	CP 304HF1BCN			ND			0000 2400	
535	1611.00		MLT	MALTA RADIO	MLT	014E24 35N52	014E24 35N52	1000	CP 304HF1BCN			ND			0000 2400	
1662	1611.00		NOR	HAMMERFEST	NOR	023E41 70N41	023E41 70N41	370	CP 400HF1B			ND			0000 2400	
1686	1611.00		NOR	OERLANDET	NOR	009E36 63N41	009E36 63N41	370	CP 400HF1B			ND			0000 2400	
1410	1611.00		URS	VENTSPILS	URS	021E32 57N24	021E32 57N24	700	CP 304HF1B			ND			0000 2400	
860	1611.00		YUG	SPLIT	YUG	016E29 43N30	016E29 43N30	300	CP 304HF1BCN			ND			0000 2400	
2381	1611.40		AGL	NAMIBE	AGL	012E09 15S11	012E09 15S11	500	CP 2K80J3E			ND			0000 2400	
2139	1611.50		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32	300	CP 304HF1B			ND			0000 2400	
124	1611.50		G	LANDS END RADIO	G	005W40 50N07	005W40 50N07	320	CP 304HF1BCN			ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
706	1611.50	I		S BENEDETTO TRONTO	I	013E52 42N57	013E52 42N57	600	CP 304HF1B			ND			0000 2400	
1694	1611.50	NOR		ROGALAND	NOR	005E34 58N48	005E34 58N48	370	CP 400HF1B			ND			0000 2400	
2313	1611.50	POL		KRYNICA MORSKA	POL	019E26 54N23	019E26 54N23	600	OT 400HF1BCN			ND			0000 2400	
2868	1611.50	TUN		SFAX RADIO	TUN	010E44 34N44	010E44 34N44	800	CP 304HF1BCN			ND			0600 2400	
2515	1611.50	TUR		IZMIR	TUR	027E10 38N24	027E10 38N24	250	CP 304HF1BCN			ND			0000 2400	
2513	1611.50	TUR		MERSIN	TUR	034E36 36N49	034E36 36N49	250	CP 304HF1BCN			ND			0000 2400	
1005	1611.50	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	700	CP 304HF1B			ND			0000 2400	
2114	1612.00	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40	500	CP 340HF1B			ND			0000 2400	
349	1612.00	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	1000	CP 300HF1B			ND			0000 2400	
1873	1612.00	F		LE CONQUET	F	004W44 48N20	004W44 48N20	1200	CP 304HF1B			ND			0000 2400	
123	1612.00	G		HEBRIDES RADIO	G	007W02 58N14	007W02 58N14	320	CP 304HF1BCN			ND			0000 2400	
682	1612.00	I		ROMA	I	012E22 41N59	012E22 41N59	400	CO 304HF1B			ND			0000 2400	
2885	1612.00	KEN		MOMBASA RADIO	KEN	039E34 03S58	039E34 03S58	1500	CP 100HA1AAN			ND			0000 2400	
1684	1612.00	NOR		AALESUND	NOR	006E12 62N28	006E12 62N28	370	CP 400HF1B			ND			0000 2400	
1520	1612.00	URS		LENINGRAD	URS	030E21 59N59	030E21 59N59	700	CO 304HF1B			ND			0000 2400	
1138	1612.00	URS		NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	700	CO 304HF1B			ND			0000 2400	
2218	1612.50	BEL		OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	300	CP 300HF1B			ND			0000 2400	
2658	1612.50	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
2043	1612.50	DNK		SKAGEN	DNK	010E34 57N44	010E34 57N44	350	CP 304HF1B			ND			0000 2400	
137	1612.50	G		WICK RADIO	G	003W06 58N26	003W06 58N26	320	CP 304HF1BCN			ND			0000 2400	
704	1612.50	I		PORTO TORRES RADIO	I	008E23 40N50	008E23 40N50	600	CP 304HF1B			ND			0000 2400	
2906	1612.50	TUN		TUNIS RADIO	TUN	001E11 36N53	001E11 36N53	200	CP 304HF1BCN			ND			0000 2400	
2517	1612.50	TUR		ISKENDERUN	TUR	036E07 36N37	036E07 36N37	250	CP 304HF1BCN			ND			0000 2400	
1139	1612.50	URS		NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	700	CP 304HF1B			ND			0000 2400	
2638	1613.00	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
2038	1613.00	DNK		BLAAVAND	DNK	008E07 55N33	008E07 55N33	350	CP 304HF1B			ND			0000 2400	
131	1613.00	G		PORTPATRICK RADIO	G	005W07 54N51	005W07 54N51	240	CP 304HF1BCN			ND			0000 2400	
55	1613.00	G		GIBRALTAR	GIB	005W21 36N07	005W21 36N07	320	CP 304HF1BCN			ND			0000 2400	
47	1613.00	G		ST HELENA	SHN	005W43 15S56	005W43 15S56	320	CP 304HF1BCN			ND			0000 2400	
1993	1613.00	GRC		ASPROPYRGOS	GRC	023E35 38N02	023E35 38N02	370	CO 300HF1B			ND			0000 2400	
700	1613.00	I		MAZARA VALLO RADIO	I	012E34 37N38	012E34 37N38	600	CP 304HF1B			ND			0000 2400	
2569	1613.00	MRC		LAAYOUNE RADIO	MRC	013W13 27N10	013W13 27N10	400	CP 304HF1B			ND			0000 2400	
2565	1613.00	MRC		NADOR RADIO	MRC	002E56 35N10	002E56 35N10	300	CP 304HF1B			ND			0000 2400	
2455	1613.00	ROU		SULINA	ROU	029E39 45N09	029E39 45N09	1000	CP 304HF1B			ND			0000 2400	
1554	1613.00	URS		TALLIN	URS	024E46 59N24	024E46 59N24	700	CP 304HF1B			ND			0000 2400	
2180	1613.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	400	CP 340HF1B			ND			0000 2400	
1810	1613.50	BEL		BRUGGE	BEL	003E15 51N12	003E15 51N12	500	CO 304HF1BCN			ND			0000 2400	
2639	1613.50	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
2481	1613.50	CTI		S. PEDRO PORT	CTI	006W37 04N44	006W37 04N44	200	CR 304HF1B			ND			0000 2400	
503	1613.50	E		FERROL	E	008W16 43N28	008W16 43N28	400	CO 304HF1BCN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
705	1613.50		I	ROMA RADIO	I	012E31 41N48	012E31 41N48	600	CP 304HF1B			ND			0000 2400	
576	1613.50		IRL	VALENTIA	IRL	010W21 51N56	010W21 51N56	500	CP 300HF1B			ND			0000 2400	
355	1613.50		S	AELVSBORG RADIO	S	011E30 58N30	011E30 58N30	400	CO 280HF1B			ND			0000 2400	
358	1613.50		S	HAARSFJAERDEN RADIO	S	018E40 58N59	018E40 58N59	400	CO 280HF1B			ND			0000 2400	
362	1613.50		S	KARLSKRONA RADIO	S	015E33 56N11	015E33 56N11	200	CO 280HF1B			ND			0000 2400	
365	1613.50		S	RUDA RADIO	S	016E18 57N12	016E18 57N12	200	CO 280HF1B			ND			0000 2400	
368	1613.50		S	TINGSTAEDE RADIO	S	018E36 57N44	018E36 57N44	300	CO 280HF1B			ND			0000 2400	
1111	1613.50		URS	BATUMI	URS	041E19 41N39	041E19 41N39	700	CP 304HF1B			ND			0000 2400	
2637	1614.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
1777	1614.00		D	FLENSBURG	D	009E41 54N48	005E00 58N00 018E00 58N00 018E00 55N00 015E00 54N00 005E00 51N00		CO 304HF1B			ND			0000 2400	
2550	1614.00		EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	029E52 31N12	500	CP 340HF1B			ND			0000 2400	
396	1614.00		FNL	HELSINKI	FNL	022E57 59N50	022E57 59N50	500	CP 304HF1B			ND			0000 2400	
129	1614.00		G	NORWICK RADIO	G	000W45 60N29	000W45 60N29	320	CP 304HF1BCN			ND			0000 2400	
134	1614.00		G	ST EVAL	G	005W00 50N28	005W00 50N28	275	CO 304HF1BCN			ND			0000 2400	
1997	1614.00		GRC	PIRAEUS	GRC	023E40 37N58	023E40 37N58	370	CO 300HF1B			ND			0000 2400	
2866	1614.00		TUN	BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16	800	CP 304HF1BCN			ND			0600 1900	
2907	1614.00		TUN	TUNIS RADIO	TUN	001E11 36N53	001E11 36N53	200	CP 304HF1BCN			ND			0000 2400	
2510	1614.00		TUR	SAMSUN	TUR	036E20 41N17	036E20 41N17	250	CP 304HF1BCN			ND			0000 2400	
1308	1614.00		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	700	CO 304HF1B			ND			0000 2400	
858	1614.00		YUG	RIJEKA	YUG	014E33 45N07	014E33 45N07	300	CP 304HF1BCN			ND			0000 2400	
2385	1614.40		AGL	CABINDA	AGL	012E11 05S34	012E11 05S34	500	CP 2K80J3E			ND			0000 2400	
2118	1614.50		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46	400	CP 340HF1B			ND			0000 2400	
1808	1614.50		BEL	OOSTENDE	BEL	002E58 51N15	002E58 51N15	500	CO 304HF1BCN			ND			0000 2400	
136	1614.50		G	WICK RADIO	G	003W06 58N26	003W06 58N26	320	CP 304HF1BCN			ND			0000 2400	
2012	1614.50		GRC	KERKYRA	GRC	019E54 39N37	019E54 39N37	370	CP 304HF1BCN			ND			0000 2400	
690	1614.50		I	LA SPEZIA	I	009E43 44N06	009E43 44N06	400	CO 304HF1B			ND			0000 2400	
2315	1614.50		POL	LAZY	POL	016E12 54N18	016E12 54N18	600	OT 400HF1BCN			ND			0000 2400	
2451	1614.50		ROU	TULCEA	ROU	028E50 45N12	028E50 45N12	1000	CP 304HF1B			ND			0000 2400	
2113	1615.00		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40	500	CP 340HF1B			ND			0000 2400	
2636	1615.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
2042	1615.00		DNK	LYNGBY	DNK	011E25 55N50	011E25 55N50	350	CP 304HF1B			ND			0000 2400	
2045	1615.00		DNK	TORSHAVN	DNK	006W47 62N01	006W47 62N01	350	CP 304HF1B			ND			0000 2400	
400	1615.00		FNL	HELSINKI	FNL	025E02 60N09	025E02 60N09	500	CP 304HF1B			ND			0000 2400	
122	1615.00		G	CULLERCOATS RADIO	G	001W28 55N04	001W28 55N04	320	CP 304HF1BCN			ND			0000 2400	
2004	1615.00		GRC	ATHINAI	GRC	023E53 38N00	023E53 38N00	370	CP 304HF1BCN			ND			0000 2400	
695	1615.00		I	CIVITAVECCHIA RADIO	I	011E49 42N01	011E49 42N01	600	CP 304HF1B			ND			0000 2400	
2459	1615.00		ISR	ELAT RADIO	ISR	034E56 29N30	034E56 29N30	1000	CP 304HF1B			ND			0000 2400	
1748	1615.00		POR	HORTA	AZR	028W38 38N32	028W38 38N32	1200	CO 304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
940	1615.00		URS	IALTA	UKR	034E10 44N39	034E10 44N39	700	CP 304HF1B			ND			0000 2400	
2179	1615.50		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	400	CP 340HF1B			ND			0000 2400	
472	1615.50		E	CORUNA RADIO	E	008W27 43N22	008W27 43N22	555	CP 304HF1BCN			ND			0000 2400	
399	1615.50		FNL	HELSINKI	FNL	025E02 60N09	025E02 60N09	500	CP 304HF1B			ND			0000 2400	
2016	1615.50		GRC	HERAKLION	GRC	025E45 35N19	025E45 35N19	370	CP 304HF1BCN			ND			0000 2400	
687	1615.50		I	PALOMBARA	I	015E08 37N10	015E08 37N10	400	CO 304HF1B			ND			0000 2400	
709	1615.50		I	VENEZIA RADIO	I	012E21 45N26	012E21 45N26	600	CP 304HF1B			ND			0000 2400	
573	1615.50		IRL	HAULBOWLINE	IRL	008W18 51N50	008W18 51N50	500	CO 300HF1B			ND			0000 2400	
1673	1615.50		NOR	BODOE	NOR	014E23 67N16	014E23 67N16	370	CP 400HF1B			ND			0000 2400	
2334	1615.50		POL	SWINOUJSCIE	POL	014E15 53N52	014E15 53N52	600	OT 400HF1BCN			ND			0000 2400	
2440	1615.50		ROU	CONSTANTA	ROU	028E37 44N06	028E37 44N06	700	CP 304HF1B			ND			0000 2400	
1343	1615.50		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	700	CO 304HF1B			ND			0000 2400	
1761	1616.00		D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 010E30 58N15 004E30 58N20 001W00 55N40 000W30 51N00 000E50 49N40		CP 304HF1BCN			ND			0000 2400	
458	1616.00		E	CABO DE LA NAO RADIO	E	000E11 38N43	000E11 38N43	555	CP 304HF1BCN			ND			0000 2400	
1883	1616.00		F	S NAZAIRE	F	002W06 47N21	002W06 47N20	1200	CP 304HF1B			ND			0000 2400	
2606	1616.00		GRC	SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370	CO 304HF1BCN			ND			0000 2400	
691	1616.00		I	ANCONA RADIO	I	013E28 43N36	013E28 43N36	600	CP 304HF1B			ND			0000 2400	
699	1616.00		I	LIVORNO RADIO	I	010E11 43N29	010E11 43N29	600	CP 304HF1B			ND			0000 2400	
579	1616.00		IRL	MALIN HEAD	IRL	007W21 55N22	007W21 55N22	500	CP 300HF1B			ND			0000 2400	
888	1616.00		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR 276HF1BCN			ND			0000 2400	
2285	1616.00		ISR	HAIFA NAVAL RADIO	ISR	035E03 32N49	035E03 32N49	1000	CO 304HF1B			ND			0000 2400	
2886	1616.00		KEN	MOMBASA RADIO	KEN	039E34 03S58	039E34 03S58	1500	CP 100HA1AAN			ND			0000 2400	
383	1616.00		S	STOCKHOLM RADIO	S	018E43 59N17	018E43 59N17	500	CP 280HF1B			ND			0000 2400	
1479	1616.00		URS	BELOMORSK	URS	034E41 64N36	034E41 64N36	700	CO 304HF1B			ND			0000 2400	
1784	1616.50		D	NEUSTADT	D	010E48 54N05	010E48 54N05	350	CO 150HF1B			ND			0000 2400	
499	1616.50		E	CARTAGENA	E	000W58 37N36	000W58 37N36	400	CO 304HF1BCN			ND			0000 2400	
125	1616.50		G	MILLTOWN	G	003W14 57N40	003W14 57N40	275	CO 304HF1BCN			ND			0000 2400	
132	1616.50		G	ST EVAL	G	005W00 50N28	005W00 50N28	275	CO 304HF1BCN			ND			0000 2400	
689	1616.50		I	LA MADDALENA	I	009E20 41N13	009E20 41N13	400	CO 304HF1B			ND			0000 2400	
1553	1616.50		URS	TALLIN	URS	024E46 59N24	024E46 59N24	700	CO 304HF1B			ND			0000 2400	
2138	1617.00		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32	300	CP 340HF1B			ND			0000 2400	
2635	1617.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
1762	1617.00		D	KIEL RADIO	D	010E08 54N26	010E10 54N30 019E35 54N20 019E20 56N00 017E50 57N40 009E00 59N30 009E00 55N55		CP 304HF1BCN			ND			0000 2400	
463	1617.00		E	CABO PENAS RADIO	E	005W51 43N39	005W51 43N39	555	CP 304HF1BCN			ND			0000 2400	
1893	1617.00		F	GRASSE	F	006E55 43N40	006E55 43N40	500	CP 304HF1B			ND			0000 2400	
130	1617.00		G	PORTLAND	G	002W27 50N51	002W27 50N51	275	CO 304HF1BCN			ND			0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 30 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
135	1617.00		G	STONEHAVEN RADIO	G	002W13 56N57	002W13 56N57	240	CP 304HF1BCN			ND			0000 2400	
698	1617.00		I	LAMPEDUSA RADIO	I	012E36 35N30	012E36 35N30	600	CP 304HF1B			ND			0000 2400	
2570	1617.00		MRC	CASABLANCA RADIO	MRC	007W34 33N34	007W34 33N34	400	CP 304HF1B			ND			0000 2400	
2543	1617.00		MRC	DAKHLA RADIO	MRC	015W56 23N42	015W56 23N42	400	CP 304HF1B			ND			0000 2400	
2587	1617.00		TUR	CANAKKALE	TUR	026E24 40N08	026E24 40N08	250	CP 304HF1BCN			ND			0000 2400	
1077	1617.00		URS	IZMAIL	UKR	028E51 45N20	028E51 45N20	200	CP 304HF1B			ND			0000 2400	
1518	1617.00		URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	700	CP 304HF1B			ND			0000 2400	
861	1617.00		YUG	DUBROVNIK	YUG	018E07 42N38	018E07 42N38	300	CP 304HF1BCN			ND			0000 2400	
2383	1617.40		AGL	LOBITO	AGL	013E33 12S22	013E33 12S22	500	CP 2K80J3E			ND			0000 2400	
2217	1617.50		BEL	OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP 300HF1B			ND			0000 2400	
515	1617.50		E	ARRECIFE RADIO	CNR	013W31 29N08	013W31 29N08	555	CP 304HF1BCN			ND			0000 2400	
453	1617.50		E	CABO DE GATA RADIO	E	002W12 36N43	002W12 36N43	555	CP 304HF1BCN			ND			0000 2400	
702	1617.50		I	NAPOLI RADIO	I	014E14 40N50	014E14 40N50	600	CP 304HF1B			ND			0000 2400	
2326	1617.50		POL	SARBINOWO	POL	015E57 54N16	015E57 54N16	600	OT 400HF1BCN			ND			0000 2400	
1205	1617.50		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CP 304HF1B			ND			0000 2400	
2221	1618.00		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP 300HF1B			ND			0000 2400	
522	1618.00		E	LAS PALMAS RADIO	CNR	015W36 27N45	015W36 27N45	555	CP 304HF1BCN			ND			0000 2400	
495	1618.00		E	CADIZ	E	006W12 36N15	006W12 36N15	400	CO 304HF1BCN			ND			0000 2400	
684	1618.00		I	ANCONA	I	013E31 43N37	013E31 43N37	400	CO 304HF1B			ND			0000 2400	
379	1618.00		S	HAERNOESAND RADIO	S	021E36 64N28	021E36 64N28	500	CP 280HF1B			ND			0000 2400	
1385	1618.00		URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	700	CO 304HF1B			ND			0000 2400	
2216	1618.50		BEL	OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP 300HF1B			ND			0000 2400	
2044	1618.50		DNK	ROENNE	DNK	015E07 55N03	015E07 55N03	350	CP 304HF1B			ND			0000 2400	
483	1618.50		E	MACHICHACO RADIO	E	002W45 43N27	002W45 43N27	555	CP 304HF1BCN			ND			0000 2400	
2551	1618.50		EGY	KOSSEIR RADIO	EGY	034E17 26N06	034E17 26N06	500	CP 340HF1B			ND			0000 2400	
887	1618.50		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00	00S01	CR 276HF1BCN		ND			0000 2400	
1698	1618.50		NOR	HAMMERFEST	NOR	023E41 70N41	023E41 70N41	370	CP 400HF1B			ND			0000 2400	
2867	1618.50		TUN	BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16	800	CP 304HF1BCN			ND			0600 1900	
2869	1618.50		TUN	SFAX RADIO	TUN	010E44 34N44	010E44 34N44	800	CP 304HF1BCN			ND			0600 2400	
2519	1618.50		TUR	ISTANBUL	TUR	028E56 41N04	028E56 41N04	400	CP 304HF1BCN			ND			0000 2400	
2640	1619.00		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 304HF1B			ND			0000 2400	
530	1619.00		E	TENERIFE RADIO	CNR	016W20 28N25	016W20 28N25	555	CP 304HF1BCN			ND			0000 2400	
507	1619.00		E	BAGUR RADIO	E	003E13 41N58	003E13 41N58	555	CP 304HF1BCN			ND			0000 2400	
468	1619.00		E	CHIPIONA RADIO	E	006W25 36N42	006W25 36N42	555	CP 304HF1BCN			ND			0000 2400	
1897	1619.00		F	BOULOGNE MER	F	001E38 50N43	001E37 50N43	1200	CP 304HF1B			ND			0000 2400	
2018	1619.00		GRC	CHIOS	GRC	026E08 38N19	026E08 38N19	370	CP 304HF1BCN			ND			0000 2400	
692	1619.00		I	AUGUSTA RADIO	I	015E13 37N13	015E13 37N13	600	CP 304HF1B			ND			0000 2400	
708	1619.00		I	TRIESTE RADIO	I	013E46 45N40	013E46 45N40	600	CP 304HF1B			ND			0000 2400	
36	1619.00		JOR	AQABA RADIO	JOR	034E59 29N33	034E59 29N33	800	CP 304HF1B			ND			0000 2400	
1678	1619.00		NOR	VARDOE	NOR	031E05 70N22	031E05 70N22	370	CP 400HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2324	1619.00	POL		POBIEROWO	POL	014E54 54N04	014E54 54N04	800	OT	400HF1BCN		ND			0000 2400	
1532	1619.00	URS		PETROZAVODSK	URS	034E19 61N48	034E19 61N48	700	CO	304HF1B		ND			0000 2400	
513	1619.50	E		LAS PALMAS	CNR	015W26 28N09	015W26 28N09	400	CO	304HF1BCN		ND			0000 2400	
450	1619.50	E		BARCELONA	E	001E55 41N17	001E55 41N17	555	CP	304HF1BCN		ND			0000 2400	
1872	1619.50	F		LE CONQUET	F	004W44 48N20	004W44 48N20	1200	CP	304HF1B		ND			0000 2400	
398	1619.50	FNL		VAASA	FNL	021E09 63N19	021E09 63N19	500	CP	304HF1B		ND			0000 2400	
120	1619.50	G		AKROTIRI	CYP	032E56 34N36	032E56 34N36	150	CO	304HF1BCN		ND			0000 2400	
435	1619.50	HOL		NES	HOL	006E04 53N24	006E04 53N24	500	CP	280HF1BCN		ND			0000 2400	
688	1619.50	I		NAPOLI	I	014E14 40N42	014E14 40N42	400	CO	304HF1B		ND			0000 2400	
1742	1619.50	POR		MONSANTO	POR	009W11 38N44	009W11 38N44	900	CO	304HF1B		ND			0000 2400	
2518	1619.50	TUR		ISTANBUL	TUR	028E56 41N04	028E56 41N04	400	CP	304HF1BCN		ND			0000 2400	
1436	1619.50	URS		KALININGRAD	URS	020E30 54N45	020E30 54N45	700	CP	304HF1B		ND			0000 2400	
2097	1620.00	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	400	CP	304HF1B		ND			0000 2400	
2861	1620.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP	304HF1B		ND			0000 2400	
1896	1620.00	F		BOULOGNE MER	F	001E38 50N43	001E37 50N43	1200	CP	304HF1B		ND			0000 2400	
2608	1620.00	GRC		MOURNIES KRITIS	GRC	024E01 35N29	024E01 35N29	370	CO	304HF1BCN		ND			0000 2400	
2286	1620.00	ISR		HAIFA RADIO	ISR	035E00 32N48	035E00 32N48	1000	CP	304HF1B		ND			0000 2400	
2887	1620.00	KEN		MOMBASA RADIO	KEN	039E34 03S58	039E34 03S58	1500	CP	100HA1AAN		ND			0000 2400	
2534	1620.00	KWT		RAS ALZOOR	KWT	048E56 28N28	048E56 28N28	800	CP	340HF1B		ND			0300 2100	
2319	1620.00	POL		MIEDZYWODZIE	POL	014E42 54N01	014E42 54N01	600	OT	400HF1BCN		ND			0000 2400	
1743	1620.00	POR		MONSANTO	POR	009W11 38N44	009W11 38N44	900	CO	304HF1B		ND			0000 2400	
2436	1620.00	ROU		AGIGEA	ROU	028E39 44N06	028E39 44N06	1000	CP	304HF1B		ND			0000 2400	
1239	1620.00	URS		BAKU	URS	049E45 40N20	049E45 40N20	700	CP	304HF1B		ND			0000 2400	
859	1620.00	YUG		ZADAR	YUG	015E14 44N07	015E14 44N07	300	CP	304HF1BCN		ND			0000 2400	
2263	1620.50	ALB		DURRES PT RADIO	ALB	019E26 41N27	019E26 41N27	200	CP	134HJ2BCN		ND			0000 2400	
2112	1620.50	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40	500	CP	340HF1B		ND			0000 2400	
1876	1620.50	F		S MALO	F	002W02 48N38	002W02 48N28	500	CP	304HF1B		ND			0000 2400	
697	1620.50	I		GENOVA RADIO	I	008E56 44N25	008E56 44N25	600	CP	304HF1B		ND			0000 2400	
2423	1620.50	MLT		XLOKK RADIO	MLT	014E32 35N49	014E32 35N49	1000	CP	304HF1BCN		ND			0000 2400	
372	1620.50	S		GOETEBORG RADIO	S	011E56 57N28	011E56 57N28	500	CP	280HF1B		ND			0000 2400	
1004	1620.50	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	700	CO	304HF1B		ND			0000 2400	
1307	1620.50	URS		MURMANSK	URS	033E10 68N58	033E10 68N58	700	CP	304HF1B		ND			0000 2400	
2768	1621.40	TUN		TUNIS RADIO	TUN	010E11 36N53	010E11 36N53	300	CP	2K70J3EJN		ND			0000 2400	
2086	1636.40	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40	850	CP	2K80J3E		ND			0000 2400	
1917	1636.40	ARS		DAMMAMRADIO	ARS	050E06 26N26	050E06 26N26	300	CP	2K70J3EJN		ND			0000 2400	
1918	1636.40	ARS		JEDDAHRADIO	ARS	039E10 21N23	039E10 21N23	300	CP	2K70J3EJN		ND			0000 2400	
2634	1636.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E		ND			0000 2400	
2055	1636.40	DNK		BLAAVAND	DNK	008E07 55N33	008E07 55N33	350	CP	2K80J3E		ND			0000 2400	
1804	1636.40	ETH		ASSAB	ETH	042E45 13N01	042E45 13N01	200	CP	2K80J3E		ND			0000 2400	
1869	1636.40	F		LE CONQUET	F	004W44 48N20	004W44 48N20	1200	CP	2K80J3E		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1877	1636.40	F	QUIMPERLE	F	003W30 47N52	003W30 47N52	500	CP	2K80J3E			ND			0000 2400	
2066	1636.40	F	S DENIS	REU	055E36 20S54	055E27 20S51	800	CP	2K80J3E			ND			0000 2400	
421	1636.40	FNL	PORI	FNL	021E27 61N37	021E27 61N37	300	CP	2K70J3E			ND			0000 2400	
40	1636.40	G	ASCENSION	ASC	014W25 07S56	014W25 07S56	200	CP	2K80J3E			ND			0000 2400	
48	1636.40	G	ST HELENA	SHN	005W43 15S56	005W43 15S56	300	CP	2K80J3E			ND			0000 2400	
2604	1636.40	GRC	SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370	CO	2K70J3EJN			ND			0000 2400	
766	1636.40	I	LAMPEDUSA RADIO	I	012E36 35N30	012E36 35N30	200	CP	2K80J3E			ND			0000 2400	
834	1636.40	I	VENEZIA RADIO	I	012E21 45N26	012E21 45N26	600	CP	2K80J3E			ND			0000 2400	
2547	1636.40	MRC	TANTAN RADIO	MRC	011W07 28N35	011W07 28N35	200	CP	2K80H3E			ND			0000 2400	
2364	1639.40	BHR	BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CP	2K80J3E			ND			0000 2400	
2665	1639.40	CME	KRIBI	CME	009E43 02N53	009E43 02N53	400	CV	2K80J3E			ND			0000 2400	
2690	1639.40	E	LAREDO	E	003W21 43N25	003W21 43N25	370	CV	2K70J3E			ND			0000 2400	
2808	1639.40	EGY	RADIO	EGY	034E17 27N06	034E17 27N06	800	CP	2K80J3E			ND			0400 2200	
1803	1639.40	ETH	MASSAWA	ETH	039E21 15N37	039E21 15N37	200	CP	2K80J3E			ND			0000 2400	
416	1639.40	FNL	VAASA	FNL	021E09 63N19	021E09 63N19	300	CP	2K70J3E			ND			0000 2400	
143	1639.40	G	HEBRIDES RADIO	G	007W02 58N14	007W02 58N14	320	CP	2K80J3EJN			ND			0000 2400	
157	1639.40	G	NORTH FORELAND RADIO	G	001E25 51N22	001E25 51N22	120	CP	2K80J3EJN			ND			0000 2400	
1989	1639.40	GRC	CHIOS	GRC	026E08 38N19	026E08 38N19	370	CP	2K70J3EJN			ND			0000 2400	
798	1639.40	I	PALERMO RADIO	I	013E22 38N07	013E22 38N07	400	CP	2K80J3E			ND			0000 2400	
1647	1639.40	MOZ	NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP	3K00H3EJN			ND			0000 2400	
2572	1639.40	MRC	CASABLANCA RADIO	MRC	007W34 33N34	007W34 33N34	500		2K80H3E			ND				
2323	1639.40	POL	MRZEZYNO	POL	015E19 54N09	015E19 54N09	500	OT	2K70J3EJN			ND			0000 2400	
2165	1642.40	ALG	BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	700	CP	2K80J3E			ND			0000 2400	
1919	1642.40	ARS	DAMMAMRADIO	ARS	050E06 26N26	050E06 26N26	300	CP	2K70J3EJN			ND			0000 2400	
2632	1642.40	BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E			ND			0000 2400	
1968	1642.40	BUL	BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12	030E46 46N30	CO	2K80J3E			ND			0000 2400	
						037E47 44N43	041E38 41N39									
						036E21 41N19	028E58 41N01									
2049	1642.40	DNK	SKAGEN	DNK	010E34 57N44	010E34 57N44	350	CP	2K80J3E			ND			0000 2400	
2053	1642.40	DNK	TORSHAVN	DNK	006W47 62N01	006W47 62N01	350	CP	2K80J3E			ND			0000 2400	
1901	1642.40	ETH	MASSAWA	ETH	039E21 15N37	039E21 15N37	200	CP	2K80J3E			ND			0000 2400	
156	1642.40	G	NITON RADIO	G	001W18 50N35	001W18 50N35	320	CP	2K80J3EJN			ND			0000 2400	
1641	1642.40	MOZ	NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP	2K99R3ELN			ND			0000 2400	
2573	1642.40	MRC	CASABLANCA RADIO	MRC	007W34 33N34	007W34 33N34	500	CP	2K80H3E			ND				
2582	1642.40	TUR	TRABZON	TUR	039E43 41N00	039E42 41N00	250	CP	2K70J3EJN			ND			0000 2400	
1283	1642.40	URS	TCHELEKEN	URS	053E24 39N24	053E24 39N24	700	CO	2K35J3E			ND			0000 2400	
851	1642.40	YUG	KOPER	YUG	013E44 45N33	013E44 45N33	300	CP	2K70J3EJN			ND			0000 2400	
2680	1645.40	CME	LIMBE	CME	009E22 04N02	009E22 04N02	400	CP	2K80J3E			ND			0000 2400	
2466	1645.40	CTI	ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP	2K80J3E			ND			0000 2400	
1793	1645.40	D	BORKUM	D	006E39 53N35	006E55 53N10	006E55 54N00	CO	2K80J3E			ND			0000 2400	
						008E50 54N00	008E50 53N10									

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1794	1645.40	D		BREMERHAVEN	D	008E35 53N33	008E00 53N20 008E00 54N10 009E10 54N10 009E10 53N20	CO	2K80J3E			ND			0000 2400	
1791	1645.40	D		BUESUM	D	008E50 54N10	008E00 53N50 008E00 54N50 009E10 54N50 009E10 53N50	CO	2K80J3E			ND			0000 2400	
1790	1645.40	D		EMDEN	D	007E12 53N21	006E55 53N10 006E55 54N00 007E50 54N00 007E50 53N10	CO	2K80J3E			ND			0000 2400	
1792	1645.40	D		HUSUM	D	009E03 54N28	008E00 53N50 008E00 54N50 009E10 54N50 009E10 53N50	CO	2K80J3E			ND			0000 2400	
1787	1645.40	D		LEER	D	007E27 53N13	007E10 53N10 007E10 53N40 007E40 53N40 007E40 53N10	CO	2K80J3E			ND			0000 2400	
1795	1645.40	D		NORDERNEY	D	007E08 53N42	006E55 53N10 006E55 54N00 008E50 54N00 008E50 53N10	CO	2K80J3E			ND			0000 2400	
1788	1645.40	D		OLDENBURG	D	008E12 53N08	008E30 53N20 008E30 54N00 009E00 54N00 009E00 53N20	CO	2K80J3E			ND			0000 2400	
1789	1645.40	D		WILHELMSHAVEN	D	008E07 53N31	007E50 53N10 007E50 54N00 008E50 54N00 008E50 53N10	CO	2K80J3E			ND			0000 2400	
2905	1645.40	DJI		DJIBOUTI	DJI	043E08 11N36	043E08 11N36 1000	CP	2K80J3E			ND			0000 2400	
2483	1645.40	E		ARRECIFE	CNR	013W31 29N08	013W31 29N08 370	CP	2K70J3EJN			ND			0000 2400	
498	1645.40	E		CARTAGENA	E	000W58 37N36	000W58 37N36 400	CO	2K70J3EJN			ND			0000 2400	
415	1645.40	FNL		MARIEHAMN RV	FNL	019E56 60N05	019E56 60N05 300	CO	2K70J3E			ND			0000 2400	
49	1645.40	G		ST HELENA	SHN	005W43 15S56	005W43 15S56 300	CP	2K80J3E			ND			0000 2400	
2904	1645.40	GUI		KONAKRI	GUI	013W37 09N30	013W37 09N30 1700	CR	2K80J3E			ND			0000 2400	
769	1645.40	I		LIVORNO RADIO	I	010E11 43N29	010E11 43N29 200	CP	2K80J3E			ND			0000 2400	
718	1645.40	I		PALOMBARA	I	015E08 37N10	015E08 37N10 220	CO	2K80J3E			ND			0000 2400	
577	1645.40	IRL		MALIN HEAD	IRL	007W21 55N22	007W21 55N22 370	CP	2K80J3EJN			ND			0000 2400	
1638	1645.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	040E39 14S34 500	CP	3K00H3EJN			ND			0000 2400	
2598	1645.40	TUR		IZMIR	TUR	027E10 38N24	027E10 38N24 250	CP	2K70J3EJN			ND			0000 2400	
2600	1645.40	TUR		SAMSUN	TUR	036E20 41N17	036E20 41N17 250	CP	2K70J3EJN			ND			0000 2400	
2361	1645.40	UAE		FUJAIRAH	UAE	056E20 25N09	056E20 25N09 400	CV	2K80J3E			ND			0000 2400	
1309	1645.40	URS		MURMANSK	URS	033E10 68N58	033E10 68N58 700	CO	2K35J3E			ND			0000 2400	
2094	1648.40	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54 1100	CP	2K80J3E			ND			0000 2400	
1807	1648.40	BEL		OOSTENDE	BEL	002E58 51N15	002E58 51N15 500	CO	2K80J3EJN			ND			0000 2400	
1975	1648.40	BUL		PRIMORSKO RADIO	BUL	027E47 42N16	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01	CO	2K80J3E			ND			0000 2400	
470	1648.40	E		CORUNA RADIO	E	008W27 43N22	008W27 43N22 370	CP	2K70J3EJN			ND			0000 2400	
41	1648.40	G		ASCENSION	ASC	014W25 07S56	014W25 07S56 200	CP	2K80J3E			ND			0000 2400	
320	1648.40	G		PENTLAND COASTGUARD	G	002W57 58N59	002W57 58N59 180	OT	2K80J3EJN			ND			0000 2400	
712	1648.40	I		TARANTO	I	017E25 40N26	017E25 40N26 220	CO	2K80J3E			ND			0000 2400	
1632	1648.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	040E39 14S34 500	CP	2K99R3ELN			ND			0000 2400	
2546	1648.40	MRC		MDIQ RADIO	MRC	005W20 35N40	005W20 35N40 100		2K80H3E			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
356	1648.40		S	AELVSBORG RADIO	S	011E30 58N30	011E30 58N30	200	CO 2K80J3E			ND			0000 2400	
2350	1648.40		UAE	DUBAI	UAE	055E16 25N14	055E16 25N14	400	CV 2K80J3E			ND			0000 2400	
1531	1648.40		URS	PETROZAVODSK	URS	034E19 61N48	034E19 61N48	700	CO 2K35J3E			ND			0000 2400	
2631	1651.40		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 2K80J3E			ND			0000 2400	
343	1651.40		DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35	1000	CP 2K40J3E			ND			0000 2400	
2693	1651.40		E	CEUTA	E	005W16 35N53	005W16 35N53	370	CP 2K70J3E			ND			0000 2400	
1865	1651.40		F	BREST BALISAGE	F	004W29 48N23	004W29 48N23	366	OT 2K70J3EJN			ND			0700 1630	
169	1651.40		G	STONEHAVEN RADIO	G	002W13 56N57	002W13 56N57	240	CP 2K80J3EJN			ND			0000 2400	
796	1651.40		I	PALERMO RADIO	I	013E22 38N07	013E22 38N07	400	CP 2K80J3E			ND			0000 2400	
875	1651.40		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01		CR 2K70J3EJN			ND			0000 2400	
2075	1651.40		ISL	HORNAFJOERDUR RADIO	ISL	015W13 64N15	015W13 64N15	750	CP 3K00H3EJN			ND			0000 2400	
2619	1651.40		KEN	MOMBASA RADIO	KEN	039E44 03S58	039E44 03S58	500	CP 2K80J3E			ND			0000 2400	
2896	1651.40		LBY	TOBRUK	LBY	023E59 32N02	023E59 32N02	500	CP 2K70J3E			ND			0000 2400	
1630	1651.40		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP 2K99R3ELN			ND			0000 2400	
1644	1651.40		MOZ	NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP 2K70J3EJN			ND			0000 2400	
2246	1651.40		OMA	MUSSANDAM	OMA	056E21 26N22	056E21 26N22	400	CO 3K00J3E			ND			0000 2400	
1446	1651.40		URS	NARVA-IESSU	URS	028E12 59N22	028E12 59N22	700	CO 2K35J3E			ND			0000 2400	
2476	1654.40		CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	004W01 05N18	200	CR 2K80J3E			ND			0000 2400	
509	1654.40		E	BARCELONA RADIO	E	001E55 41N17	001E55 41N17	370	CP 2K70J3EJN			ND			0000 2400	
411	1654.40		FNL	HELSINKI	FNL	025E02 60N09	025E02 60N09	300	CP 2K70J3E			ND			0000 2400	
304	1654.40		G	FERRIS POINT LSTN	G	005W47 54N41	005W47 54N41	150	OT 2K80J3EJN			ND			0000 2400	
445	1654.40		HOL	VLISSINGEN	HOL	003E37 51N27	003E37 51N27	180	CP 2K80J3EJN			ND			0000 2400	
732	1654.40		I	BARI RADIO	I	016E59 41N05	016E59 41N05	400	CP 2K80J3E			ND			0000 2400	
879	1654.40		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01		CR 2K70J3EJN			ND			0000 2400	
1634	1654.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP 2K70J3EJN			ND			0000 2400	
1690	1654.40		NOR	BERGEN	NOR	005E22 60N25	005E22 60N25	370	CP 3K00J3E			ND			0000 2400	
1729	1654.40		NOR	HARSTAD	NOR	016E04 69N18	016E04 69N18	370	CP 3K00J3E			ND			0800 1800	
591	1654.40		POR	FIGUEIRA DA FOZ	POR	008W50 40N08	008W50 40N08	200	CP 2K70J3EJN			ND			0000 2400	
592	1654.40		POR	OLHAO	POR	007W50 37N02	007W50 37N02	200	CP 2K70J3EJN			ND			0000 2400	
2396	1654.40		TUN	MAHDIA RADIO 2 MDN	TUN	011E04 35N30	010E11 36N53 014E21 35N53 012E34 37N38 012E30 38N01 020E03 32N07 013E11 32N54		CO 2K70J3EJN			ND			0600 1900	
1351	1654.40		URS	NARIAN-MAR	URS	053E00 67N39	053E00 67N39	700	CO 2K35J3E			ND			0000 2400	
1779	1657.40		D	FLENSBURG	D	009E41 54N48	005E00 58N00 018E00 58N00 018E00 55N00 015E00 54N00 002E00 51N00		CO 2K80J3E			ND			0000 2400	
1781	1657.40		D	WILHELMSHAVEN	D	007E37 53N41	005E00 58N00 018E00 58N00 018E00 55N00 015E00 54N00 002E00 51N00		CO 2K80J3E			ND			0000 2400	
2709	1657.40		E	AYAMONTE	E	007W24 37N13	007W24 37N13	370	CV 2K70J3E			ND			0000 2400	
412	1657.40		FNL	HELSINKI RV	FNL	024E50 60N13	024E50 60N13	300	CO 2K70J3E			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
233	1657.40	G		BURRA FIRTH	G	000W53 60N48	000W53 60N48	150	OT	2K80J3E		ND			0900 1700	
322	1657.40	G		RATHLIN EAST LSTN	G	006W10 55N18	006W10 55N18	150	OT	2K80J3EJN		ND			0000 2400	
2814	1657.40	GNE		BATA	GNE	009E44 01N49	009E44 01N49	500	CO	2K80J3E		ND			0000 2400	
1981	1657.40	GRC		LIMNOS	GRC	025E11 39N54	025E11 39N54	370	CP	2K70J3EJN		ND			0000 2400	
764	1657.40	I		LAMPEDUSA RADIO	I	012E36 35N30	012E36 35N30	400	CP	2K80J3E		ND			0000 2400	
876	1657.40	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01	CR	2K70J3EJN		ND			0000 2400	
1642	1657.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP	2K70J3EJN		ND			0000 2400	
1635	1657.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP	2K70J3EJN		ND			0000 2400	
2590	1657.40	TUR		ISKENDERUN	TUR	036E07 36N37	036E07 36N37	250	CP	2K70J3EJN		ND			0000 2400	
852	1657.40	YUG		RIJEKA	YUG	014E33 45N07	014E33 45N07	300	CP	2K70J3EJN		ND			0000 2400	
2694	1660.40	E		BARBATE	E	005W55 36N11	005W55 36N11	370	CV	2K70J3E		ND			0000 2400	
148	1660.40	G		JERSEY RADIO	G	002W12 49N14	002W12 49N14	150	CP	2K80J3EJN		ND			0000 2400	
160	1660.40	G		NORWICK RADIO	G	000W45 60N29	000W45 60N29	320	CP	2K80J3EJN		ND			0000 2400	
1990	1660.40	GRC		CHIOS	GRC	026E08 38N19	026E08 38N19	370	CP	2K70J3EJN		ND			0000 2400	
441	1660.40	HOL		IJMUIDEN	HOL	004E35 52N28	004E35 52N28	100	CP	2K80J3EJN		ND			0000 2400	
758	1660.40	I		GENOVA RADIO	I	008E56 44N25	008E56 44N25	400	CP	2K80J3E		ND			0000 2400	
2081	1660.40	ISL		REYKJAVIK RADIO	ISL	022W02 64N09	022W02 64N09	900	CP	3K00H3EJN		ND			0000 2400	
1649	1660.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	2K99R3ELN		ND			0000 2400	
1652	1660.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	2K70J3EJN		ND			0000 2400	
1655	1660.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	3K00H3EJN		ND			0000 2400	
1648	1660.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP	2K99R3ELN		ND			0000 2400	
1651	1660.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP	2K70J3EJN		ND			0000 2400	
1654	1660.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP	3K00H3EJN		ND			0000 2400	
1650	1660.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP	2K99R3ELN		ND			0000 2400	
1653	1660.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP	2K70J3EJN		ND			0000 2400	
1656	1660.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	040E39 14S34	500	CP	3K00H3EJN		ND			0000 2400	
2835	1660.40	NIG		BURUTU	NIG	005E30 05N21	005E30 05N21	50	CV	2K80J3E		ND			0000 2400	
1688	1660.40	NOR		BODOE	NOR	014E23 67N16	014E23 67N16	370	CP	3K00J3E		ND			0000 2400	
2347	1660.40	POL		WLADYSLAWOWO	POL	018E25 54N45	018E25 54N45	500	CV	2K70J3EJN		ND			0000 2400	
2389	1660.40	TUN		GABES RADIO	TUN	007E45 33N53	020E03 32N07	013E11 32N54	CP	2K70J3EJN		ND			0600 1900	
							014E29 35N55	033E26 35N09								
							023E53 38N00	019E55 39N37								
2354	1660.40	UAE		ABUDHABI	UAE	054E17 24N23	054E17 24N23	200	CV	2K80J3E		ND			0000 2400	
2367	1663.40	BHR		BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CP	2K80J3E		ND			0000 2400	
1973	1663.40	BUL		BOURGAS RADIO	BUL	027E29 42N30	027E57 43N12	030E46 46N30	CO	2K80J3E		ND			0000 2400	
							037E47 44N43	041E38 41N39								
							036E21 41N19	028E58 41N01								
520	1663.40	E		LAS PALMAS RADIO	CNR	015W36 27N45	015W36 27N45	370	CP	2K70J3EJN		ND			0000 2400	
505	1663.40	E		BAGUR RADIO	E	003E13 41N58	003E13 41N58	370	CP	2K70J3EJN		ND			0000 2400	
296	1663.40	G		ALDERNEY	G	002W12 49N43	002W12 49N43	100	OT	2K80J3EJN		ND			0000 2400	

0	1	2	3	4	5	6	7		8	9	10A	10B	11A	11B	11C	12	13
297	1663.40		G	BRIXHAM COASTGUARD	G	004W13 50N19	004W13 50N19	180	OT	2K80J3EJN			ND			0000 2400	
298	1663.40		G	CASQUETS LSTN	G	002W22 49N43	002W22 49N43	150	OT	2K80J3EJN			ND			0000 2400	
301	1663.40		G	DOWSING LSTN	G	000E50 53N34	000E50 53N34	150	OT	2K80J3EJN			ND			0000 2400	
302	1663.40		G	DUDGEON LSTN	G	001E13 53N15	001E13 53N15	150	OT	2K80J3EJN			ND			0000 2400	
303	1663.40		G	FALMOUTH COASTGUARD	G	005W03 50N09	005W03 50N09	180	OT	2K80J3EJN			ND			0000 2400	
305	1663.40		G	GUERNSEY	G	002W32 49N27	002W32 49N27	100	OT	2K80J3EJN			ND			0000 2400	
306	1663.40		G	HAISBOROUGH	G	001E34 52N58	001E34 52N58	150	OT	2K80J3EJN			ND			0000 2400	
307	1663.40		G	HANOIS LSTN	G	002W42 49N26	002W42 49N26	150	OT	2K80J3EJN			ND			0000 2400	
916	1663.40		G	HUMBER LSTN	G	000E21 53N36	000E21 53N36	150	OT	2K80J3EJN			ND			0000 2400	
311	1663.40		G	INNER DOWSING LSTN	G	000E33 53N19	000E33 53N19	150	OT	2K80J3EJN			ND			0000 2400	
312	1663.40		G	IS OF JETHOU	G	002W27 49N27	002W27 49N27	100	OT	2K80J3EJN			ND			0000 2400	
315	1663.40		G	MAIDENS LSTN	G	005W44 54N56	005W44 54N56	150	OT	2K80J3EJN			ND			0000 2400	
316	1663.40		G	MEW ISLAND LSTN	G	005W31 54N42	005W31 54N42	150	OT	2K80J3EJN			ND			0000 2400	
319	1663.40		G	NEWARP LSTN	G	001E55 52N48	001E55 52N48	150	OT	2K80J3EJN			ND			0000 2400	
323	1663.40		G	ROYAL SOVEREIGN LSTN	G	000E26 50N43	000E26 50N43	150	OT	2K80J3EJN			ND			0000 2400	
325	1663.40		G	SHOREHAM COASTGUARD	G	000W15 50N49	000W15 50N49	180	OT	2K80J3EJN			ND			0000 2400	
326	1663.40		G	SMITHS KNOLL LSTN	G	002E18 52N43	002E18 52N43	150	OT	2K80J3EJN			ND			0000 2400	
327	1663.40		G	SOUTH ROCK LSTN	G	005W22 54N24	005W22 54N24	150	OT	2K80J3EJN			ND			0000 2400	
332	1663.40		G	YARMOUTH COASTGUARD	G	001E19 52N56	001E19 52N56	180	OT	2K80J3EJN			ND			0000 2400	
726	1663.40		I	AUGUSTA RADIO	I	015E13 37N13	015E13 37N13	400	CP	2K80J3E			ND			0000 2400	
805	1663.40		I	S BENEDETTO TRONTO	I	013E52 42N57	013E52 42N57	200	CP	2K80J3E			ND			0000 2400	
545	1663.40		IRL	BAILY LSTN	IRL	006W03 53N22	006W03 53N22	150	OT	2K80J3EJN			ND			0000 2400	
546	1663.40		IRL	BALLYCOTTON LSTN	IRL	007W59 51N50	007W59 51N50	150	OT	2K80J3EJN			ND			0000 2400	
547	1663.40		IRL	BLACKROCK MAYO LSTN	IRL	010W19 54N04	010W19 54N04	150	OT	2K80J3EJN			ND			0000 2400	
548	1663.40		IRL	BLACKSOD LSTN	IRL	010W03 54N05	010W03 54N05	150	OT	2K80J3EJN			ND			0000 2400	
549	1663.40		IRL	BULL ROCK LSTN	IRL	010W18 51N36	010W18 51N36	150	OT	2K80J3EJN			ND			0000 2400	
550	1663.40		IRL	CASTLETOWN HELIBASE	IRL	009W54 51N39	009W54 51N39	150	OT	2K80J3EJN			ND			0000 2400	
551	1663.40		IRL	CLIFDEN HELIBASE	IRL	009W09 53N29	009W09 53N29	150	OT	2K80J3EJN			ND			0000 2400	
552	1663.40		IRL	CONINGBEG LSTN	IRL	006W39 52N02	006W39 52N02	150	OT	2K80J3EJN			ND			0000 2400	
561	1663.40		IRL	DUN LAOGHAIRE DEPOT	IRL	006W08 53N17	006W08 53N17	150	OT	2K80J3EJN			ND			0000 2400	
553	1663.40		IRL	EAGLE ISLAND LSTN	IRL	010W06 54N17	010W06 54N17	150	OT	2K80J3EJN			ND			0000 2400	
554	1663.40		IRL	EERAGH LSTN	IRL	009W51 53N08	009W51 53N08	150	OT	2K80J3EJN			ND			0000 2400	
555	1663.40		IRL	FANAD HEAD LSTN	IRL	007W37 55N16	007W37 55N16	150	OT	2K80J3EJN			ND			0000 2400	
556	1663.40		IRL	FASTNET LSTN	IRL	009W36 51N23	009W36 51N23	150	OT	2K80J3EJN			ND			0000 2400	
557	1663.40		IRL	INISHEER LSTN	IRL	009W31 53N02	009W31 53N02	150	OT	2K80J3EJN			ND			0000 2400	
558	1663.40		IRL	INISHTEARAGHT LSTN	IRL	010W39 52N04	010W39 52N04	150	OT	2K80J3EJN			ND			0000 2400	
559	1663.40		IRL	INISHTRAHULL LSTN	IRL	007W14 55N25	007W14 55N25	150	OT	2K80J3EJN			ND			0000 2400	
560	1663.40		IRL	KISH BANK LSTN	IRL	005W55 53N19	005W55 53N19	150	OT	2K80J3EJN			ND			0000 2400	
562	1663.40		IRL	LOOPHEAD LSTN	IRL	009W56 52N34	009W56 52N34	150	OT	2K80J3EJN			ND			0000 2400	
563	1663.40		IRL	MIZEN HEAD LSTN	IRL	009W49 51N27	009W49 51N27	150	OT	2K80J3EJN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
564	1663.40		IRL	RATHLIN O'BIRNE LSTN	IRL	008W50 54N40	008W50 54N40	150	OT	2K80J3EJN		ND			0000 2400	
565	1663.40		IRL	ROANCARRIGMORE LSTN	IRL	009W45 51N39	009W45 51N39	150	OT	2K80J3EJN		ND			0000 2400	
566	1663.40		IRL	ROCKABILL LSTN	IRL	006W00 53N36	006W00 53N36	150	OT	2K80J3EJN		ND			0000 2400	
567	1663.40		IRL	ROSSLARE HELIBASE	IRL	006W21 52N16	006W21 52N16	150	OT	2K80J3EJN		ND			0000 2400	
568	1663.40		IRL	SKELLIGS LSTN	IRL	010W33 51N46	010W33 51N46	150	OT	2K80J3EJN		ND			0000 2400	
569	1663.40		IRL	SLYNE HEAD LSTN	IRL	010W14 53N24	010W14 53N24	150	OT	2K80J3EJN		ND			0000 2400	
570	1663.40		IRL	TORY ISLAND LSTN	IRL	008W15 55N16	008W15 55N16	150	OT	2K80J3EJN		ND			0000 2400	
571	1663.40		IRL	TUSKAR LSTN	IRL	006W12 52N12	006W12 52N12	150	OT	2K80J3EJN		ND			0000 2400	
572	1663.40		IRL	WICKLOW HEAD LSTN	IRL	006W00 52N58	006W00 52N58	150	OT	2K80J3EJN		ND			0000 2400	
2327	1663.40		POL	SARBINOWO	POL	015E57 54N16	015E57 54N16	900	OT	2K70J3EJN		ND			0000 2400	
598	1663.40		POR	VILA MOURA	POR	008W06 37N04	008W06 37N04	150	CV	2K70J3EJN		ND			0000 2400	
2591	1663.40		TUR	TRABZON	TUR	039E43 41N00	039E43 41N00	250	CP	2K70J3EJN		ND			0000 2400	
1506	1663.40		URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	700	CO	2K35J3E		ND			0000 2400	
1503	1663.40		URS	PRIOZERSK	URS	030E10 61N02	030E10 61N02	700	CO	2K35J3E		ND			0000 2400	
2288	1665.40		ISR	HAIFA NAVAL RADIO	ISR	035E03 32N49	035E03 32N49	1000	CO	2K99R3E		ND			0000 2400	
2190	1666.40		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E		ND			0000 2400	
2366	1666.40		BHR	BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CP	2K80J3E		ND			0000 2400	
1974	1666.40		BUL	NESSEBAR RADIO	BUL	027E24 42N29	027E57 43N12 030E46 46N30		CO	2K80J3E		ND			0000 2400	
							037E47 44N43 041E38 41N39									
							036E21 41N19 028E58 41N01									
2469	1666.40		CTI	ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP	2K80J3E		ND			0000 2400	
227	1666.40		G	ARDNAMURCHAN LTSN	G	006W13 56N44	006W13 56N44	150	OT	2K80J3E		ND			0000 2400	
748	1666.40		I	CIVITAVECCHIA RADIO	I	011E49 42N01	011E49 42N01	400	CP	2K80J3E		ND			0000 2400	
1637	1666.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	3K00H3EJN		ND			0000 2400	
1692	1666.40		NOR	TJOEME	NOR	010E25 59N05	010E25 59N05	180	CP	3K00J3E		ND			0000 2400	
1352	1666.40		URS	NARIAN-MAR	URS	053E00 67N39	053E00 67N39	700	CP	2K35J3E		ND			0000 2400	
2192	1669.40		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E		ND			0000 2400	
2633	1669.40		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E		ND			0000 2400	
2365	1669.40		BHR	BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CP	2K80J3E		ND			0000 2400	
502	1669.40		E	FERROL	E	008W16 43N28	008W16 43N28	400	CO	2K70J3EJN		ND			0000 2400	
1900	1669.40		ETH	ASSAB	ETH	042E45 13N01	042E45 13N01	200	CP	2K80J3E		ND			0000 2400	
782	1669.40		I	MESSINA RADIO	I	015E33 38N11	015E33 38N11	400	CP	2K80J3E		ND			0000 2400	
1646	1669.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	3K00H3EJN		ND			0000 2400	
2574	1669.40		MRC	SAFI RADIO	MRC	009W14 32N18	009W14 32N18	500	CP	2K80H3E		ND			0000 2400	
2325	1669.40		POL	POBIEROWO	POL	014E54 54N04	014E54 54N04	800	OT	2K70J3EJN		ND			0000 2400	
2596	1669.40		TUR	IZMIR	TUR	027E10 38N24	027E10 38N24	250	CP	2K70J3EJN		ND			0000 2400	
2595	1669.40		TUR	SAMSUN	TUR	036E20 41N17	036E20 41N17	250	CP	2K70J3EJN		ND			0000 2400	
1099	1669.40		URS	BAKU	URS	049E45 40N20	049E45 40N20	700	CO	2K35J3E		ND			0000 2400	
2863	1671.40		COG	POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44	1000	CP	2K80J3E		ND			0000 2400	
2475	1672.40		CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	004W01 05N18	200	CR	2K80J3E		ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1898	1672.40		ETH	ASSAB	ETH	042E45 13N01	042E45 13N01	200	CP	2K80J3E		ND			0000 2400	
1868	1672.40		F	LE CONQUET	F	004W44 48N20	004W44 48N20	1200	CP	2K80J3E		ND			0000 2400	
1858	1672.40		F	MARSEILLE	F	005E21 43N14	006E30 40N30	400	CO	2K80J3EJN		ND			0000 2400	
1878	1672.40		F	QUIMPERLE	F	003W30 47N52	003W30 47N52	500	CP	2K80J3E		ND			0000 2400	
1874	1672.40		F	S MALO	F	002W02 48N38	002W02 48N38	500	CP	2K80J3E		ND			0000 2400	
424	1672.40		FNL	KOTKA	FNL	026E54 60N29	026E54 60N29	300	CP	2K70J3E		ND			0000 2400	
2601	1672.40		GRC	MOURNIES KRITIS	GRC	024E01 35N29	024E01 35N29	370	CO	2K70J3EJN		ND			0000 2400	
1639	1672.40		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP	2K99R3ELN		ND			0000 2400	
869	1672.40		MRC	NADOR	MRC	002W56 35N10	002W56 35N10	550	CP	2K80H3E		ND			0000 2400	
1710	1672.40		NOR	BODOE/HARSTAD	NOR	018E57 69N39	018E57 69N39	370	CO	3K00J3E		ND			0000 2400	
1693	1672.40		NOR	FARSUND	NOR	006E45 58N04	006E45 58N04	370	CP	3K00J3E		ND			0000 2400	
2248	1672.40		OMA	MUSCAT	OMA	058E36 23N37	058E21 26N22	400	CO	3K00J3E		ND			0000 2400	
2400	1672.40		TUN	SFAX RADIO	TUN	010E44 34N44	010E11 36N53	014E32 35N49	CP	2K70J3EJN		ND			0600 2400	
							013E11 32N54	012E31 41N48								
							009E14 39N13	014E14 40N50								
1499	1672.40		URS	KOLGUEV	URS	049E07 69N30	049E07 69N30	700	OT	2K35J3E		ND			0000 2400	
853	1672.40		YUG	ZADAR	YUG	015E14 44N07	015E14 44N07	300	CP	2K70J3EJN		ND			0000 2400	
2368	1675.40		BHR	BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CP	2K80J3E		ND			0000 2400	
461	1675.40		E	CABO PENAS RADIO	E	005W51 43N39	005W51 43N39	370	CP	2K70J3EJN		ND			0000 2400	
244	1675.40		G	FAIR ISLE S LTSN	G	001W39 59N31	001W39 59N31	150	OT	2K80J3E		ND			0000 2400	
2813	1675.40		GNE	BATA	GNE	009E44 01N49	009E44 01N49	500	CO	2K80J3E		ND			0000 2400	
442	1675.40		HOL	SCHEVENINGEN	HOL	004E15 52N06	004E15 52N06	500	CP	2K80J3EJN		ND			0000 2400	
739	1675.40		I	CAGLIARI RADIO	I	009E07 39N15	009E07 39N15	400	CP	2K80J3E		ND			0000 2400	
868	1675.40		MRC	DAKHLA	MRC	015W56 23N42	015W56 23N42	500	CP	2K80H3E		ND			0000 2400	
1696	1675.40		NOR	HARSTAD	NOR	018E57 69N39	018E57 69N39	370	CP	3K00J3E		ND			0000 2400	
2444	1675.40		ROU	CONSTANTA	ROU	028E37 44N06	028E37 44N06	300	OT	2K80J3E		ND			0000 2400	
384	1675.40		S	STOCKHOLM RADIO	S	018E43 59N17	018E43 59N17	500	CP	2K80J3E		ND			0000 2400	
1220	1675.40		URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	700	CP	2K35J3E		ND			0000 2400	
2738	1678.40		ALB	SARANDE RADIO	ALB	020E00 39N52	020E00 39N52	200	CP	2K70J3EJN		ND			0000 2400	
2370	1678.40		BHR	BAHRAIN	BHR	050E35 26N14	050E35 26N14	600	CP	2K80J3E		ND			0000 2400	
2480	1678.40		CTI	S. PEDRO PORT	CTI	006W37 04N44	006W37 04N44	200	CR	2K80J3E		ND			0000 2400	
1774	1678.40		D	BREMERHAVEN	D	008E30 53N31	008E30 53N30	008E30 55N20	OT	2K70J3EJN		ND			0000 2400	
							005E50 54N45	005E50 53N50								
1775	1678.40		D	CUXHAVEN	D	008E43 53N52	008E40 53N50	008E30 55N20	OT	2K70J3EJN		ND			0000 2400	
							005E50 54N45	005E50 53N50								
1776	1678.40		D	KIEL	D	010E08 54N26	010E10 54N30	010E40 53N50	OT	2K70J3EJN		ND			0000 2400	
							011E45 54N20	011E10 55N05								
							009E10 55N00									
512	1678.40		E	LAS PALMAS	CNR	015W26 28N09	015W26 28N09	400	CO	2K70J3EJN		ND			0000 2400	
460	1678.40		E	CABO PENAS RADIO	E	005W51 43N39	005W51 43N39	370	CP	2K70J3EJN		ND			0000 2400	
428	1678.40		FNL	MARIEHAMN	FNL	019E57 60N07	019E57 60N07	500	CP	2K70J3E		ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2902	1678.40	GUI		KONAKRY	GUI	013W37 09N30	013W37 09N30	200	CP	2K80J3E		ND			0000 2400	
802	1678.40	I		PORTO TORRES RADIO	I	008E23 40N50	008E23 40N50	400	CP	2K80J3E		ND			0000 2400	
578	1678.40	IRL		MALIN HEAD	IRL	007W21 55N22	007W21 55N22	370	CP	2K80J3EJN		ND			0000 2400	
2893	1678.40	LBY		BENGHAZI	LBY	020E04 32N07	020E04 32N07	300	CP	2K70J3EJN		ND			0000 2400	
2567	1678.40	MRC		EL HOCEIMA RADIO	MRC	003W58 35N10	003W58 35N10	200	CP	2K80H3E		ND			0000 2400	
2095	1681.40	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1100	CP	2K80J3E		ND			0000 2400	
1809	1681.40	BEL		BRUGGE	BEL	003E15 51N12	003E15 51N12	500	CO	2K80J3EJN		ND			0000 2400	
2630	1681.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E		ND			0000 2400	
2901	1681.40	GUI		KAMSAR	GUI	015W36 11N40	015W36 11N40	200	CP	2K80J3E		ND			0000 2400	
830	1681.40	I		TRIESTE RADIO	I	013E46 45N40	013E46 45N40	200	CP	2K80J3E		ND			0000 2400	
2897	1681.40	MTN		NOUADHIBOU RADIO	MTN	017W03 20N54	017W03 20N54	600	CP	2K80J3E		ND			0800 1800	
1717	1681.40	NOR		FLOROE	NOR	005E00 61N36	005E00 61N36	370	CP	3K00J3E		ND			0800 1800	
1730	1681.40	NOR		HARSTAD	NOR	019E01 69N43	019E01 69N43	370	CP	3K00J3E		ND			0800 1800	
2322	1681.40	POL		MIKOSZEWO	POL	019E58 54N21	019E58 54N21	500	OT	2K70J3EJN		ND			0000 2400	
593	1681.40	POR		MATOSINHOS	POR	008W45 41N12	008W45 41N12	200	CP	2K70J3EJN		ND			0000 2400	
594	1681.40	POR		SETUBAL	POR	008W55 38N32	008W55 38N32	200	OT	2K70J3EJN		ND			0000 2400	
2597	1681.40	TUR		ISTANBUL	TUR	028E56 41N04	028E56 41N04	400	CP	2K70J3EJN		ND			0000 2400	
2355	1681.40	UAE		ABUDHABI	UAE	054E17 24N23	054E17 24N23	200	CV	3K00J3E		ND			0000 2400	
1246	1681.40	URS		FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	700	CP	2K35J3E		ND			0000 2400	
1362	1681.40	URS		ONEGA	URS	038E10 63N57	038E10 63N57	700	CP	2K35J3E		ND			0000 2400	
2201	1684.40	BEL		OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP	2K99R3E		ND			0000 2400	
2467	1684.40	CTI		ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP	2K80J3E		ND			0000 2400	
910	1684.40	CYP		CYPRUS RADIO	CYP	033E17 35N03	033E17 35N03	300	CP	2K80J3E		ND			0000 2400	
2706	1684.40	E		ALICANTE	E	000W29 38N21	000W29 38N21	370	CP	2K70J3E		ND			0000 2400	
835	1684.40	I		VENEZIA RADIO	I	012E21 45N26	012E21 45N26	200	CP	2K80J3E		ND			0000 2400	
533	1684.40	MLT		MALTA RADIO	MLT	014E24 35N52	014E24 35N52	1000	CP	2K80J3EJN		ND			0000 2400	
2548	1684.40	MRC		TANTAN RADIO	MRC	011W07 28N35	011W07 28N35	200	CP	2K80H3E		ND			0000 2400	
2360	1684.40	UAE		ABUDHABI	UAE	054E17 24N23	054E17 24N23	180	CV	3K00J3E		ND			0000 2400	
1521	1684.40	URS		HAAPSALU	URS	023E21 58N34	023E21 58N34	700	CO	2K35J3E		ND			0000 2400	
1108	1684.40	URS		POTI	URS	041E49 42N08	041E49 42N08	700	CO	2K35J3E		ND			0000 2400	
2629	1687.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E		ND			0000 2400	
1961	1687.40	BUL		VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30		CO	2K80J3E		ND			0000 2400	
							037E47 44N43 041E38 41N39									
							036E21 41N19 028E58 41N01									
2054	1687.40	DNK		BLAAVAND	DNK	008E07 55N33	008E07 55N33	350	CP	2K80J3E		ND			0000 2400	
1881	1687.40	F		S NAZAIRE	F	002W06 47N20	002W06 47N20	1200	CP	2K80J3E		ND			0000 2400	
423	1687.40	FNL		HANKO RV	FNL	023E01 59N49	023E01 59N49	300	CO	2K70J3E		ND			0000 2400	
259	1687.40	G		MULL OF KINTYRE LTSN	G	005W45 55N19	005W45 55N19	150	OT	2K80J3E		ND			0000 2400	
2568	1687.40	MRC		EL HOCEIMA RADIO	MRC	003W58 35N10	003W58 35N10	200		2K80H3E		ND			0000 2400	
611	1687.40	POR		MADEIRA	MDR	016W50 32N38	016W50 32N38	250	CP	2K70J3EJN		ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2411	1687.40		TUN	TABARKA RADIO	TUN	006E25 36N57	005E21 43N19 003E18 36N40 007E45 36N54 013E22 38N07 008E56 44N25 014E14 40N50	CP	2K70J3EJN			ND			0600 1900	
2362	1687.40		UAE	ABUDHABI	UAE	054E17 24N23	054E17 24N23 150	CV	2K80J3E			ND			0000 2400	
854	1687.40		YUG	SPLIT	YUG	016E29 43N30	016E29 43N30 300	CP	2K70J3EJN			ND			0000 2400	
2200	1690.40		BEL	OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500	CP	2K99R3E			ND			0000 2400	
1978	1690.40		BUL	BALTCHIK RADIO	BUL	028E06 43N17	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01	CO	2K80J3E			ND			0000 2400	
519	1690.40		E	LAS PALMAS RADIO	CNR	015W36 27N45	015W36 27N45 370	CP	2K70J3EJN			ND			0000 2400	
231	1690.40		G	BRESSAY LTSN	G	001W07 60N07	001W07 60N07 150	OT	2K80J3E			ND			0000 2400	
2888	1690.40		GHA	TAKORADI	GHA	001W45 04N54	001W45 04N54 600	CP	2K80J3E			ND			0600 1800	
814	1690.40		I	TRAPANI RADIO	I	012E30 38N01	012E30 38N01 400	CP	2K80J3E			ND			0000 2400	
1706	1690.40		NOR	KRISTIANSAND S	NOR	007E59 58N03	007E59 58N03 100	CO	3K00J3E			ND			0000 2400	
2331	1690.40		POL	SUCHACZ	POL	019E28 54N17	019E28 54N17 900	OT	2K70J3EJN			ND			0000 2400	
596	1690.40		POR	PENICHE	POR	009W25 39N20	009W25 39N20 200	CP	2K70J3EJN			ND			0000 2400	
595	1690.40		POR	VILA REAL S ANTONIO	POR	007W28 37N12	007W28 37N12 200	CP	2K70J3EJN			ND			0000 2400	
2363	1690.40		UAE	ABUDHABI	UAE	054E17 24N23	054E17 24N23 180	CV	2K80J3E			ND			0000 2400	
1236	1690.40		URS	BAKU	URS	049E45 40N20	049E45 40N20 700	CP	2K35J3E			ND			0000 2400	
2720	1693.40		ALG	EL KALA RADIO	ALG	008E27 36N53	008E27 36N53 100		2K80J3E			ND			0000 2400	
2628	1693.40		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22 600	CP	2K80J3E			ND			0000 2400	
2704	1693.40		E	VALENCIA	E	000W18 39N27	000W18 39N27 370	CP	2K70J3E			ND			0000 2400	
1867	1693.40		F	BOULOGNE MER	F	001E38 50N43	001E37 50N43 1200	CP	2K80J3E			ND			0000 2400	
734	1693.40		I	BARI RADIO	I	016E59 41N05	016E59 41N05 400	CP	2K80J3E			ND			0000 2400	
2566	1693.40		MRC	EL JADIDA RADIO	MRC	008W40 33N07	008W40 33N07 300	CP	2K80H3E			ND			0000 2400	
1695	1693.40		NOR	ROGALAND	NOR	005E34 58N48	005E34 58N48 180	CP	3K00J3E			ND			0000 2400	
2299	1693.40		POL	GDANSK	POL	018E40 54N22	018E40 54N22 500	CV	2K70J3EJN			ND			0000 2400	
2353	1693.40		UAE	SHARJAH	UAE	055E17 25N22	055E17 25N22 200	CV	3K00J3E			ND			0000 2400	
979	1693.40		URS	KHERSON	UKR	032E34 46N39	032E34 46N39 700	CO	2K35J3E			ND			0000 2400	
920	1693.40		URS	NIKOPOL	UKR	034E25 47N36	034E25 47N36 700	CO	2K35J3E			ND			0000 2400	
991	1693.40		URS	OTCHAKOV	UKR	031E30 46N37	031E30 46N37 700	CO	2K35J3E			ND			0000 2400	
1498	1693.40		URS	LODEINOE	URS	033E34 60N43	033E34 60N43 700	CO	2K35J3E			ND			0000 2400	
2181	1696.40		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06 750	CP	2K80J3E			ND			0000 2400	
2056	1696.40		DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33 350	CP	2K80J3E			ND			0000 2400	
1866	1696.40		F	MARSEILLE BALISAGE	F	005E21 43N17	005E21 43N17 183	OT	2K70J3EJN			ND			0700 1630	
422	1696.40		FNL	PORI RV	FNL	021E31 61N34	021E31 61N34 300	CO	2K70J3E			ND			0000 2400	
149	1696.40		G	LANDS END RADIO	G	005W40 50N07	005W40 50N07 320	CP	2K80J3EJN			ND			0000 2400	
1979	1696.40		GRC	ATHINAI	GRC	023E53 38N00	023E53 38N00 370	CP	2K70J3EJN			ND			0000 2400	
822	1696.40		I	TRIESTE RADIO	I	013E46 45N40	013E46 45N40 400	CP	2K80J3E			ND			0000 2400	
882	1696.40		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01	CR	2K70J3EJN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1734	1696.40	NOR		VARDOE	NOR	027E51 71N02	027E51 71N02 370	CP	3K00J3E			ND			0800 1800	
2063	1696.40	TUN		MAHDIA RADIO	TUN	011E04 35N30	010E11 36N53 014E21 35N53 012E34 37N38 012E30 38N01 020E03 32N07 013E11 32N54	CP	2K70J3E			ND			0600 1900	
2085	1699.40	ALG		ALGER RADIO	ALG	003E18 36N40	003E18 36N40 850	CP	2K80J3E			ND			0000 2400	
2627	1699.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22 600	CP	2K80J3E			ND			0000 2400	
2059	1699.40	DNK		BLAAVAND	DNK	008E07 55N33	008E07 55N33 350	CP	2K80J3E			ND			0000 2400	
2484	1699.40	E		LAS PALMAS RADIO	CNR	015W36 27N45	015W36 27N45 370	CP	2K70J3EJN			ND			0000 2400	
2700	1699.40	E		SADA	E	008W15 43N21	008W15 43N21 500	CP	2K70J3E			ND			0000 2400	
239	1699.40	G		CORSEWALL LTSN	G	005W10 55N01	005W10 55N01 150	OT	2K80J3E			ND			0000 2400	
1998	1699.40	GRC		PIRAEUS	GRC	023E40 37N58	023E40 37N58 370	CO	2K70J3E			ND			0000 2400	
828	1699.40	I		TRIESTE RADIO	I	013E46 45N40	013E46 45N40 400	CP	2K80J3E			ND			0000 2400	
878	1699.40	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01	CR	2K70J3EJN			ND			0000 2400	
1645	1699.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05 500	CP	3K00H3EJN			ND			0000 2400	
2247	1699.40	OMA		RAYSUT	OMA	054E00 16N57	054E00 16N57 400	CO	3K00J3E			ND			0000 2400	
2401	1699.40	TUN		SFAX RADIO 2 MDN	TUN	010E44 34N44	010E11 36N53 014E32 35N49 013E11 32N54 012E31 41N48 009E14 39N13 014E14 40N50	CO	2K70J3EJN			ND			0600 2400	
2594	1699.40	TUR		MERSIN	TUR	034E36 36N49	034E36 36N49 250	CP	2K70J3EJN			ND			0000 2400	
1057	1699.40	URS		BERDIANSK	UKR	036E48 46N47	036E48 46N47 700	CO	2K35J3E			ND			0000 2400	
2873	1701.40	AFS		LUDERITZ	NMB	015E04 26S38	015E04 26S38 400	CP	2K80J3E			ND			0000 2400	
2719	1702.40	ALG		SKIKDA RADIO	ALG	006E54 36N53	006E54 36N53 100		2K80J3E			ND			0000 2400	
151	1702.40	G		MILLTOWN	G	003W14 57N40	003W14 57N40 275	CO	2K80J3E			ND			0000 2400	
1988	1702.40	GRC		RHODOS	GRC	028E12 36N26	028E12 36N26 370	CP	2K70J3EJN			ND			0000 2400	
447	1702.40	HOL		OUDDORP	HOL	003E53 51N48	003E53 51N48 180	CP	2K80J3EJN			ND			0000 2400	
710	1702.40	I		ROMA	I	012E22 41N59	012E22 41N59 220	CO	2K80J3E			ND			0000 2400	
883	1702.40	IRQ		BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01	CR	2K70J3EJN			ND			0000 2400	
1633	1702.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05 500	CP	2K70J3EJN			ND			0000 2400	
2318	1702.40	POL		MECHELINKI	POL	018E31 54N36	018E31 54N36 500	OT	2K70J3EJN			ND			0000 2400	
590	1702.40	POR		PORTIMAO	POR	008W38 37N10	008W38 37N10 200	OT	2K70J3EJN			ND			0000 2400	
2457	1702.40	ROU		SULINA	ROU	029E39 45N09	029E39 45N09 250	OT	2K80J3E			ND			0000 2400	
2092	1705.40	ALG		ANNABA RADIO	ALG	007E45 36N54	007E45 36N54 1100	CP	2K80J3E			ND			0000 2400	
2623	1705.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22 600	CP	2K80J3E			ND			0000 2400	
2047	1705.40	DNK		LYNGBY	DNK	011E25 55N50	011E25 55N50 350	CP	2K80J3E			ND			0000 2400	
488	1705.40	E		TARIFA RADIO	E	005W33 36N03	005W33 36N03 370	CP	2K70J3EJN			ND			0000 2400	
1855	1705.40	F		LORIENT	F	003W27 47N44	005W00 51N00 300	CO	2K80J3EJN			ND			0000 2400	
251	1705.40	G		INCHKEITH LSTN	G	003W08 56N02	003W08 56N02 150	OT	2K80J3E			ND			0000 2400	
1640	1705.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51 500	CP	2K99R3ELN			ND			0000 2400	
2443	1705.40	ROU		CONSTANTA	ROU	028E37 44N06	028E37 44N06 200	OT	2K80J3E			ND			0000 2400	
1248	1705.40	URS		FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30 700	CP	2K35J3E			ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1371	1705.40		URS	KANDALAKCHA	URS	032E29 67N10	032E29 67N10	700	CP	2K35J3E		ND			0000 2400	
855	1705.40		YUG	DUBROVNIK	YUG	018E07 42N38	018E07 42N38	300	CP	2K70J3EJN		ND			0000 2400	
2093	1708.40		ALG	ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1100	CP	2K80J3E		ND			0000 2400	
2046	1708.40		DNK	LYNGBY	DNK	011E25 55N50	011E25 55N50	350	CP	2K80J3E		ND			0000 2400	
482	1708.40		E	MACHICHACO RADIO	E	002W45 43N27	002W45 43N27	370	CP	2K70J3EJN		ND			0000 2400	
1811	1708.40		F	DZAOUDZI	MYT	045E17 12S48	045E17 12S48	800	CP	2K80J3E		ND			0000 2400	
2067	1708.40		F	S DENIS	REU	055E36 20S54	055E27 20S51	800	CP	2K80J3E		ND			0000 2400	
417	1708.40		FNL	VAASA	FNL	021E09 63N19	021E09 63N19	300	CP	2K70J3E		ND			0000 2400	
299	1708.40		G	CLYDE COASTGUARD	G	004W48 55N49	004W48 55N49	180	OT	2K80J3EJN		ND			0000 2400	
158	1708.40		G	NORTH FORELAND RADIO	G	001E25 51N22	001E25 51N22	120	CP	2K80J3EJN		ND			0000 2400	
2603	1708.40		GRC	SPATA ATTIKIS	GRC	023E55 37N58	023E55 37N58	370	CO	2K70J3EJN		ND			0000 2400	
831	1708.40		I	VENEZIA RADIO	I	012E21 45N26	012E21 45N26	600	CP	2K80J3E		ND			0000 2400	
2612	1708.40		KEN	MOMBASA RADIO	KEN	039E44 03S58	039E44 03S58	500	CP	2K80J3E		ND			0000 2400	
1631	1708.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	2K99R3ELN		ND			0000 2400	
2872	1711.40		AFS	LUDERITZ	NMB	015E04 26S38	015E04 26S38	400	CP	2K80J3E		ND			0000 2400	
2626	1711.40		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E		ND			0000 2400	
909	1711.40		CYP	CYPRUS RADIO	CYP	033E17 35N03	033E17 35N03	300	CP	2K80J3E		ND			0000 2400	
1884	1711.40		F	ARCACHON	F	001W10 44N39	001W10 44N39	1200	CP	2K80J3E		ND			0000 2400	
162	1711.40		G	PORTPATRICK RADIO	G	005W07 54N51	005W07 54N51	240	CP	2K80J3EJN		ND			0000 2400	
438	1711.40		HOL	VLISSINGEN	HOL	003E37 51N27	003E37 51N27	100	CP	2K80J3EJN		ND			0000 2400	
820	1711.40		I	TRAPANI RADIO	I	012E30 38N01	012E30 38N01	400	CP	2K80J3E		ND			0000 2400	
2918	1711.40		LBY	TOBRUK RADIO	LBY	023E59 32N02	023E59 32N02	200	CV	2K80J3E		ND			0000 2400	
1643	1711.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	034E54 19S51	500	CP	2K70J3EJN		ND			0000 2400	
863	1711.40		MRC	LAAYOUNE	MRC	013W13 27N10	013W13 27N10	550	CP	2K80H3E		ND			0000 2400	
1712	1711.40		NOR	BODOE	NOR	012E37 66N01	012E37 66N01	180	CP	3K00J3E		ND			0800 1800	
599	1711.40		POR	LISBOA	POR	009W13 38N43	009W13 38N43	150	CV	2K70J3EJN		ND			0000 2400	
18	1711.40		QAT	DOHA	QAT	051E35 25N45	051E35 25N45	600	CP	2K80J3E		ND			0000 2400	
373	1711.40		S	GOETEBORG RADIO	S	011E56 57N28	011E56 57N28	500	CP	2K80J3E		ND			0000 2400	
942	1711.40		URS	IALTA	UKR	034E10 44N39	034E10 44N39	700	CO	2K35J3E		ND			0000 2400	
922	1711.40		URS	KERTCH	UKR	036E28 45N22	036E28 45N22	700	CO	2K35J3E		ND			0000 2400	
953	1711.40		URS	SEVASTOPOL	UKR	033E32 44N34	033E32 44N34	700	CO	2K35J3E		ND			0000 2400	
1312	1711.40		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	700	CO	2K35J3E		ND			0000 2400	
2775	1714.40		AOE	EL AAIUN	AOE	013W18 27N10	013W18 27N10	100	CV	2K80J3E		ND			0000 2400	
2698	1714.40		E	SANCTI PETRI	E	006W13 36N23	006W13 36N23	370	CV	2K70J3E		ND			0000 2400	
268	1714.40		G	RUBHA REIDH LTSN	G	005W49 57N51	005W49 57N51	150	OT	2K80J3E		ND			0000 2400	
164	1714.40		G	ST EVAL	G	005W00 50N28	005W00 50N28	275	CO	2K80J3E		ND			0000 2400	
444	1714.40		HOL	NES	HOL	006E04 53N24	006E04 53N24	500	CP	2K80J3EJN		ND			0000 2400	
756	1714.40		I	GENOVA RADIO	I	008E56 44N25	008E56 44N25	400	CP	2K80J3E		ND			0000 2400	
2079	1714.40		ISL	SIGLUFJORDUR RADIO	ISL	015W56 66N27	015W56 66N27	750	CP	3K00H3EJN		ND			0000 2400	
2076	1714.40		ISL	VESTMANNAEYJAR RADIO	ISL	020W16 23N26	020W16 23N26	750	CP	3K00H3EJN		ND			0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 43 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2923	1714.40	LBY		BENGHAZI RADIO	LBY	020E04 32N07	020E04 32N07	450	CP 2K80J3E			ND			0000 2400	
1636	1714.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	032E37 26S05	500	CP 3K00H3EJN			ND			0000 2400	
2333	1714.40	POL		SWARZEWO	POL	018E24 54N46	018E24 54N46	900	OT 2K70J3EJN			ND			0000 2400	
19	1714.40	QAT		DOHA	QAT	051E35 25N45	051E35 25N45	600	CP 2K80J3E			ND			0000 2400	
2390	1714.40	TUN		GABES RADIO	TUN	007E45 33N53	005E21 43N19 003E18 36N40		CP 2K70J3EJN			ND			0600 1900	
							007E45 36N54 013E22 38N07									
							008E56 44N25 014E14 40N50									
1235	1714.40	URS		BAKU	URS	049E45 40N20	049E45 40N20	700	CP 2K35J3E			ND			0000 2400	
2625	1717.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 2K80J3E			ND			0000 2400	
2699	1717.40	E		CABO PENAS	E	005W50 43N39	005W50 43N39	500	CP 2K70J3E			ND			0000 2400	
443	1717.40	HOL		SCHEVENINGEN	HOL	004E15 52N06	004E15 52N06	500	CP 2K80J3EJN			ND			0000 2400	
741	1717.40	I		CAGLIARI RADIO	I	009E07 39N15	009E07 39N15	400	CP 2K80J3E			ND			0000 2400	
826	1717.40	I		TRIESTE RADIO	I	013E46 45N40	013E46 45N40	400	CP 2K80J3E			ND			0000 2400	
1705	1717.40	NOR		HORTEN	NOR	010E29 59N25	010E29 59N25	100	CO 3K00J3E			ND			0000 2400	
20	1717.40	QAT		DOHA	QAT	051E35 25N45	051E35 25N45	600	CP 2K80J3E			ND			0000 2400	
999	1717.40	URS		ILITCHEVSK	UKR	030E41 46N19	030E41 46N19	700	CO 2K35J3E			ND			0000 2400	
1029	1717.40	URS		IZMAIL	UKR	028E51 45N20	028E51 45N20	700	CO 2K35J3E			ND			0000 2400	
1007	1717.40	URS		ODESSA	UKR	030E45 46N29	030E45 46N29	700	CO 2K35J3E			ND			0000 2400	
1160	1717.40	URS		VILKOVO	URS	029E36 45N25	029E36 45N25	700	CO 2K35J3E			ND			0000 2400	
2091	1720.40	ALG		ORAN RADIO	ALG	000W08 35N46	000W08 35N46	1050	CP 2K80J3E			ND			0000 2400	
2194	1720.40	BEL		OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP 2K99R3E			ND			0000 2400	
351	1720.40	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	1000	CP 2K40JXX			ND			0000 2400	
527	1720.40	E		TENERIFE RADIO	CNR	016W20 28N25	016W20 28N25	370	CP 2K70J3EJN			ND			0000 2400	
419	1720.40	FNL		HAILUOTO	FNL	024E35 65N02	024E35 65N02	300	CP 2K70J3E			ND			0000 2400	
1718	1720.40	NOR		FLOROE	NOR	005E00 61N36	005E00 61N36	370	CP 3K00J3E			ND			0800 1800	
1190	1720.40	URS		ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CO 2K35J3E			ND			0000 2400	
856	1720.40	YUG		BAR	YUG	019E06 42N01	019E06 42N01	300	CP 2K70J3EJN			ND			0000 2400	
2099	1723.40	ALG		TENES RADIO	ALG	001E18 36N32	001E18 36N32	750	CP 2K80J3E			ND			0000 2400	
2624	1723.40	BEN		COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP 2K80J3E			ND			0000 2400	
346	1723.40	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	1000	CP 2K40J3E			ND			0000 2400	
1880	1723.40	F		S NAZAIRE	F	002W06 47N20	002W06 47N20	1200	CP 2K80J3E			ND			0000 2400	
170	1723.40	G		STONEHAVEN RADIO	G	002W13 56N57	002W13 56N57	240	CP 2K80J3EJN			ND			0000 2400	
716	1723.40	I		LA SPEZIA	I	009E43 44N06	009E43 44N06	220	CO 2K80J3E			ND			0000 2400	
35	1723.40	JOR		AQABA RADIO	JOR	034E59 29N33	034E59 29N33	600	CP 2K70J3EJN			ND			0000 2400	
2537	1723.40	KWT		RAS ALZOOR	KWT	048E56 28N28	048E56 28N28	500	CP 2K99R3E			ND			0300 2100	
532	1723.40	MLT		MALTA RADIO	MLT	014E24 35N52	014E24 35N52	1000	CP 2K80J3EJN			ND			0000 2400	
872	1723.40	MRC		ESSAOUIRA	MRC	009W46 31N38	009W46 31N38	500	CP 2K80H3E			ND			0000 2400	
1703	1723.40	NOR		BJOERNOEYA	NOR	019E01 74N31	019E01 74N31	370	CP 3K00J3E			ND			0000 2400	
2245	1723.40	OMA		SALALAH	OMA	054E06 17N01	054E06 17N01	400	CO 3K00J3E			ND			0000 2400	
1103	1723.40	URS		GELENDJIK	URS	038E06 44N35	038E06 44N35	700	OT 2K35J3E			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1505	1723.40	URS	PETROKREPOST	URS	031E00	59N54	031E00	59N54	700	CO	2K35J3E			ND		0000 2400
2090	1726.40	ALG	ORAN RADIO	ALG	000W08	35N46	000W08	35N46	1050	CP	2K80J3E			ND		0000 2400
2195	1726.40	BEL	OOSTENDE RADIO	BEL	002E48	51N11	002E48	51N11	500	CP	2K99R3E			ND		0000 2400
526	1726.40	E	TENERIFE RADIO	CNR	016W20	28N25	016W20	28N25	370	CP	2K70J3EJN			ND		0000 2400
328	1726.40	G	STORNOWAY COASTGUARD	G	006W21	58N13	006W21	58N13	180	OT	2K80J3EJN			ND		0000 2400
1986	1726.40	GRC	HERAKLION	GRC	025E45	35N19	025E45	35N19	370	CP	2K70J3EJN			ND		0000 2400
791	1726.40	I	NAPOLI RADIO	I	014E14	40N50	014E14	40N50	400	CP	2K80J3E			ND		0000 2400
2525	1726.40	KWT	RAS ALZOOR	KWT	047E56	28N28	047E56	28N28	800	CP	2K80J3E			ND		0300 2100
1732	1726.40	NOR	HAMMERFEST	NOR	025E54	70N59	025E54	70N59	370	CP	3K00J3E			ND		0800 1800
1687	1726.40	NOR	ROERVIK	NOR	011E12	64N50	011E12	64N50	180	CP	3K00J3E			ND		0000 2400
1728	1726.40	NOR	ROGALAND	NOR	005E05	59N26	005E05	59N26	180	CP	3K00J3E			ND		0800 1800
606	1726.40	POR	S MIGUEL	AZR	025W39	37N45	025W39	37N45	250	CP	2K70J3EJN			ND		0000 2400
1109	1726.40	URS	KRASNODAR	URS	039E01	45N03	039E01	45N03	700	CO	2K35J3E			ND		0000 2400
1523	1726.40	URS	SALACGRIVA	URS	024E21	57N45	024E21	57N45	700	CO	2K35J3E			ND		0000 2400
2193	1729.40	BEL	ANTWERPEN RADIO	BEL	004E19	51N16	004E19	51N16	500	CP	2K99R3E			ND		0000 2400
487	1729.40	E	TARIFA RADIO	E	005W33	36N03	005W33	36N03	370	CP	2K70J3EJN			ND		0000 2400
2560	1729.40	EGY	KOSSEIR RADIO	EGY	034E17	26N06	034E17	26N06	300	CP	2K80J3E			ND		0400 2200
1899	1729.40	ETH	MASSAWA	ETH	039E21	15N37	039E21	15N37	200	CP	2K80J3E			ND		0000 2400
426	1729.40	FNL	HANKO	FNL	022E57	59N50	022E57	59N50	500	CP	2K70J3E			ND		0000 2400
800	1729.40	I	PORTO TORRES RADIO	I	008E23	40N50	008E23	40N50	400	CP	2K80J3E			ND		0000 2400
2535	1729.40	KWT	RAS ALZOOR	KWT	048E56	28N28	048E56	28N28	800	CP	2K80J3E			ND		0300 2100
866	1729.40	MRC	DAKHLA	MRC	015W56	23N42	015W56	23N42	450	CP	2K80H3E			ND		0000 2400
1707	1729.40	NOR	BERGEN	NOR	005E22	60N25	005E22	60N25	100	CO	3K00J3E			ND		0000 2400
1697	1729.40	NOR	HAMMERFEST	NOR	023E41	70N41	023E41	70N41	370	CP	3K00J3E			ND		0000 2400
2586	1729.40	TUR	ANTALYA	TUR	030E42	36N53	030E42	36N53	250	CP	2K70J3EJN			ND		0000 2400
974	1729.40	URS	TCHERNOMORSKOE	UKR	032E43	45N30	032E43	45N30	700	CO	2K35J3E			ND		0000 2400
456	1732.40	E	CABO DE LA NAO RADIO	E	000E11	38N43	000E11	38N43	370	CP	2K70J3EJN			ND		0000 2400
141	1732.40	G	CULLERCOATS RADIO	G	001W28	55N04	001W28	55N04	320	CP	2K80J3EJN			ND		0000 2400
717	1732.40	I	NAPOLI	I	014E14	40N42	014E14	40N42	220	CO	2K80J3E			ND		0000 2400
2531	1732.40	KWT	HUBAN	KWT	047E41	29N31	047E41	29N31	500	CP	3K00R3E			ND		0300 2100
2891	1732.40	LBY	TRIPOLI	LBY	013E11	32N54	013E11	32N54	300	CP	2K70J3EJN			ND		0000 2400
1713	1732.40	NOR	BODOE	NOR	015E58	68N24	015E58	68N24	180	CP	3K00J3E			ND		0800 1800
1735	1732.40	NOR	SVALBARD	NOR	013E38	78N04	013E38	78N04	370	CP	3K00J3E			ND		0800 1800
2296	1732.40	POL	DARLOWO	POL	016E25	54N24	016E25	54N24	500	CV	2K70J3EJN			ND		0000 2400
2592	1732.40	TUR	ISTANBUL	TUR	028E56	41N04	028E56	41N04	400	CP	2K70J3EJN			ND		0000 2400
2351	1732.40	UAE	DUBAI	UAE	055E16	25N14	055E16	25N14	100	CV	2K80J3EKF			ND		0000 2400
2161	1735.40	ALG	BEJAIA RADIO	ALG	005E05	36N45	005E05	36N45	700	CP	2K80J3E			ND		0000 2400
2865	1735.40	COG	POINTE NOIRE RADIO	COG	011E51	04S44	011E51	04S44	1000	CP	2K80J3E			ND		0000 2400
2058	1735.40	DNK	BLAAVAND	DNK	008E07	55N33	008E07	55N33	350	CP	2K80J3E			ND		0000 2400
1843	1735.40	F	BREST	F	004W14	48N26	004W14	48N26	350	CO	2K80J3EJN			ND		0000 2400

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1994	1735.40		GRC	ASPROPYRGOS	GRC	023E35 38N02	023E35 38N02 370	CO	2K70J3E			ND			0000 2400	
719	1735.40		I	ANCONA RADIO	I	013E28 43N36	013E28 43N36 200	CP	2K80J3E			ND			0000 2400	
2536	1735.40		KWT	RAS ALZOOR	KWT	048E56 28N28	048E56 28N28 800	CP	2K80J3E			ND			0300 2100	
2599	1735.40		TUR	MERSIN	TUR	034E36 36N49	034E36 36N49 250	CP	2K70J3EJN			ND			0000 2400	
2088	1738.40		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46 1050	CP	2K80J3E			ND			0000 2400	
1977	1738.40		BUL	AHTOPOL RADIO	BUL	027E12 42N05	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N19 036E21 41N19 028E58 41N01	CO	2K80J3E			ND			0000 2400	
528	1738.40		E	TENERIFE RADIO	CNR	016W20 28N25	016W20 28N25 370	CP	2K70J3EJN			ND			0000 2400	
2805	1738.40		EGY	RADIO	EGY	029E52 31N12	029E52 31N12 800	CP	2K80J3E			ND			0000 2400	
1849	1738.40		F	DUNKERQUE	F	002E20 51N03	002E20 51N03 150	CO	2K80J3EJN			ND			0000 2400	
759	1738.40		I	GENOVA RADIO	I	008E56 44N25	008E56 44N25 200	CP	2K80J3E			ND			0000 2400	
531	1738.40		MLT	MALTA RADIO	MLT	014E24 35N52	014E24 35N52 1000	CP	2K80J3EJN			ND			0000 2400	
1711	1738.40		NOR	AALESUND	NOR	007E42 63N07	007E42 63N07 370	CP	3K00J3E			ND			0800 1800	
1702	1738.40		NOR	NY-AALESUND	NOR	011E55 78N55	011E55 78N55 370	CP	3K00J3E			ND			0000 2400	
1709	1738.40		NOR	STAVANGER	NOR	005E34 58N04	005E34 58N04 370	CO	3K00J3E			ND			0000 2400	
1699	1738.40		NOR	VARDOE	NOR	031E05 70N22	031E05 70N22 370	CP	3K00J3E			ND			0000 2400	
2250	1738.40		OMA	SUR	OMA	059E28 22N32	059E28 22N32 400	CO	3K00J3E			ND			0000 2400	
2329	1738.40		POL	SOBIESZEWO	POL	018E51 54N21	018E51 54N21 800	OT	2K70J3EJN			ND			0000 2400	
2358	1738.40		UAE	RASALKHAIMA	UAE	055E52 25N38	055E52 25N38 150	CV	3K00J3E			ND			0000 2400	
2265	1741.40		ALB	DURRES PT RADIO	ALB	019E26 41N27	019E26 41N27 150	CP	2K70J3EJN			ND			0000 2400	
2100	1741.40		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32 750	CP	2K80J3E			ND			0000 2400	
147	1741.40		G	ILFRACOMBE RADIO	G	004W07 51N11	004W07 51N11 160	CP	2K80J3EJN			ND			0000 2400	
1985	1741.40		GRC	HERAKLION	GRC	025E45 35N19	025E45 35N19 370	CP	2K70J3EJN			ND			0000 2400	
439	1741.40		HOL	HOEK VAN HOLLAND	HOL	004E07 52N00	004E07 52N00 100	CP	2K80J3EJN			ND			0000 2400	
873	1741.40		MRC	ESSAOUIRA	MRC	009W46 31N38	009W46 31N38 450	CP	2K80H3E			ND			0000 2400	
1701	1741.40		NOR	SVALBARD	NOR	013E38 78N04	013E38 78N04 370	CP	3K00J3E			ND			0000 2400	
2294	1741.40		POL	DABKI	POL	016E19 54N23	016E19 54N23 600	OT	2K70J3EJN			ND			0000 2400	
589	1741.40		POR	AVEIRO	POR	008W45 40N40	008W45 40N40 200	OT	2K70J3EJN			ND			0000 2400	
2393	1741.40		TUN	KELIBIA RADIO	TUN	008E46 36N50	014E29 35N55 020E03 32N07 013E11 32N54 009E14 39N13 013E22 38N07 025E07 35N20	CP	2K70J3EJN			ND			0600 1900	
1261	1741.40		URS	GURIEV	URS	051E55 47N03	051E55 47N03 700	CP	2K35J3E			ND			0000 2400	
1311	1741.40		URS	MURMANSK	URS	033E10 68N58	033E10 68N58 700	CP	2K35J3E			ND			0000 2400	
2292	1744.40		CVA	CITE DU VATICAN	CVA	012E27 41N55	012E27 41N55 600	OT	2K80J3E			ND			0000 2400	
240	1744.40		G	HEBRIDES RADIO	G	007W02 58N14	007W02 58N14 320	CP	2K80J3EJN			ND			0000 2400	
57	1744.40		G	GIBRALTAR	GIB	005W21 36N07	005W21 36N07 200	CP	2K80J3E			ND			0000 2400	
2602	1744.40		GRC	MOURNIES KRITIS	GRC	024E01 35N29	024E01 35N29 370	CO	2K70J3EJN			ND			0000 2400	
446	1744.40		HOL	DEN HELDER	HOL	004E45 52N55	004E45 52N55 180	CP	2K80J3EJN			ND			0000 2400	
885	1744.40		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00 080E00 00S01	CR	2K70J3EJN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1731	1744.40		NOR	HAMMERFEST	NOR	021E00 70N02	021E00 70N02	370		CP	3K00J3E			ND		0800 1800
1704	1744.40		NOR	JAN MAYEN	NOR	008W40 70N57	008W40 70N57	370		CP	3K00J3E			ND		0000 2400
2298	1744.40		POL	GDANSK	POL	018E40 54N22	018E40 54N22	700		CO	2K70J3EJN			ND		0000 2400
1339	1744.40		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	700		CO	2K35J3E			ND		0000 2400
1304	1744.40		URS	TAGANROG	URS	038E53 47N13	038E53 47N13	700		CO	2K35J3E			ND		0000 2400
2889	1745.40		TUN	SFAX	TUN	010E46 34N44	010E46 34N44	100		CR	2K80J3E			ND		0000 2400
2183	1747.40		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	700		CP	2K80J3E			ND		0000 2400
1891	1747.40		F	GRASSE	F	006E55 43N40	006E55 43N40	500		CP	2K80J3E			ND		0000 2400
410	1747.40		FNL	HELSINKI	FNL	025E02 60N09	025E02 60N09	300		CP	2K70J3E			ND		0000 2400
1983	1747.40		GRC	KERKYRA	GRC	019E54 39N37	019E54 39N37	370		CP	2K70J3EJN			ND		0000 2400
440	1747.40		HOL	TERSCHELLING LSTN	HOL	005E13 53N22	005E13 53N22	300		CP	2K80J3EJN			ND		0000 2400
575	1747.40		IRL	VALENTIA	IRL	010W21 51N56	010W21 51N56	370		CP	2K80J3EJN			ND		0000 2400
880	1747.40		IRQ	BASRAH	IRQ	047E47 30N33	025E00 30N00	080E00 00S01		CR	2K70J3EJN			ND		0000 2400
1683	1747.40		NOR	AALESUND	NOR	006E12 62N28	006E12 62N28	370		CP	3K00J3E			ND		0000 2400
2584	1747.40		TUR	ZONGULDAV	TUR	031E48 41N27	031E48 41N27	250		CP	2K70J3EJN			ND		0000 2400
1353	1747.40		URS	MEZEN	URS	044E17 65N51	044E17 65N51	700		CP	2K35J3E			ND		0000 2400
226	1750.40		G	AILSA CRAIG LTSN	G	005W06 55N15	005W06 55N15	150		OT	2K80J3E			ND		0000 2400
228	1750.40		G	BARDSEY LSTN	G	000E24 51N39	000E24 51N39	150		OT	2K80J3EJN			ND		0000 2400
229	1750.40		G	BASS RCK LSTN	G	002W38 56N05	002W38 56N05	150		OT	2K80J3E			ND		0000 2400
230	1750.40		G	BELL RCK LSTN	G	002W23 56N26	002W23 56N26	150		OT	2K80J3E			ND		0000 2400
234	1750.40		G	BUTT OF LEWIS LTSN	G	006W16 58N31	006W16 58N31	150		OT	2K80J3E			ND		0000 2400
235	1750.40		G	CALF OF MAN LTSN	G	004W50 54N03	004W50 54N03	150		OT	2K80J3E			ND		0000 2400
238	1750.40		G	COPINSAY LTSN	G	002W40 58N54	002W40 58N54	150		OT	2K80J3E			ND		0000 2400
242	1750.40		G	DUNCANSBY HD LSTN	G	003W01 58N39	003W01 58N39	150		OT	2K80J3E			ND		0000 2400
243	1750.40		G	EAST GOODWIN LSTN	G	001E36 51N13	001E36 51N13	150		OT	2K80J3EJN			ND		0000 2400
250	1750.40		G	HYSKEIR LTSN	G	006W41 56N58	006W41 56N58	150		OT	2K80J3E			ND		0000 2400
252	1750.40		G	I OF MAY LSTN	G	002W33 56N11	002W33 56N11	150		OT	2K80J3E			ND		0000 2400
258	1750.40		G	MUCKLE FLUGGA LTSN	G	000W53 60N51	000W53 60N51	150		OT	2K80J3E			ND		0000 2400
261	1750.40		G	N RONALDSAY LTSN	G	002W23 59N23	002W23 59N23	150		OT	2K80J3E			ND		0000 2400
260	1750.40		G	NORTH GOODWIN LSTN	G	001E34 51N20	001E34 51N20	150		OT	2K80J3EJN			ND		0000 2400
262	1750.40		G	OBAN DEPOT	G	005W29 56N25	005W29 56N25	150		OT	2K80J3E			ND		0900 1700
264	1750.40		G	PENTLAND SKERRIES	G	002W55 58N41	002W55 58N41	150		OT	2K80J3E			ND		0000 2400
265	1750.40		G	PLADDA LTSN	G	005W07 55N26	005W07 55N26	150		OT	2K80J3E			ND		0000 2400
267	1750.40		G	RINNS OF ISLAY LTSN	G	006W31 55N40	006W31 55N40	150		OT	2K80J3E			ND		0000 2400
269	1750.40		G	S ABBS LSTN	G	002W08 55N55	002W08 55N55	150		OT	2K80J3E			ND		0000 2400
270	1750.40		G	SANDA LTSN	G	005W35 55N17	005W35 55N17	150		OT	2K80J3E			ND		0000 2400
273	1750.40		G	SKERRIES LSTN	G	004W36 53N25	004W36 53N25	150		OT	2K80J3EJN			ND		0000 2400
274	1750.40		G	SKERRYVORE LTSN	G	007W07 56N19	007W07 56N19	150		OT	2K80J3E			ND		0000 2400
275	1750.40		G	SKOKHOLM LSTN	G	005W17 51N41	005W17 51N41	150		OT	2K80J3EJN			ND		0000 2400
276	1750.40		G	SMALLS LSTN	G	005W40 51N43	005W40 51N43	150		OT	2K80J3EJN			ND		0000 2400

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
277	1750.40	G		SOUTH BISHOP LSTN	G	005W24 51N51 005W24 51N51	150	OT	2K80J3EJN			ND			0000 2400	
278	1750.40	G		SOUTH GOODWIN LSTN	G	001E28 51N07 001E28 51N07	150	OT	2K80J3EJN			ND			0000 2400	
280	1750.40	G		STROMA LTSN	G	003W07 58N42 003W07 58N42	150	OT	2K80J3E			ND			0000 2400	
281	1750.40	G		STROMNESS	G	003W18 58N58 003W18 58N58	150	OT	2K80J3E			ND			0900 1700	
284	1750.40	G		TONGUE LSTN	G	001E23 51N30 001E23 51N30	150	OT	2K80J3EJN			ND			0000 2400	
285	1750.40	G		TURNBERRY	G	004W50 55N19 004W50 55N19	150	OT	2K80J3E			ND			0900 1700	
287	1750.40	G		VARNE LSTN	G	001E24 51N01 001E24 51N01	150	OT	2K80J3EJN			ND			0000 2400	
1982	1750.40	GRC		LIMNOS	GRC	025E11 39N54 025E11 39N54	370	CP	2K70J3EJN			ND			0000 2400	
877	1750.40	IRQ		BASRAH	IRQ	047E47 30N33 025E00 30N00 080E00 00S01		CR	2K70J3EJN			ND			0000 2400	
2254	1750.40	MCO		MONACO RADIO	MCO	007E25 43N43 007E25 43N43	500	CP	3K00J3E			ND			0000 2400	
870	1750.40	MRC		NADOR	MRC	002W56 35N10 002W56 35N10	600	CP	2K80H3E			ND			0000 2400	
2297	1750.40	POL		DZIWNOW	POL	014E44 54N01 014E44 54N01	500	CV	2K70J3EJN			ND			0000 2400	
2416	1750.40	TUN		TUNIS RADIO 2 MDN	TUN	010E11 36N53 003E18 36N40 001E54 41N16 020E03 32N07 033E26 35N09 005E21 43N19 012E31 41N48		CO	2K70J3EJN			ND			0000 2400	
2593	1750.40	TUR		ISKENDERUN	TUR	036E07 36N37 036E07 36N37	250	CP	2K70J3EJN			ND			0000 2400	
2874	1751.40	AFS		LUDERITZ	NMB	015E04 26S38 015E04 26S38	400	CP	2K80J3E			ND			0000 2400	
1763	1753.40	D		NORDDEICH RADIO	D	007E12 53N38 008E10 53N00 010E30 58N15 004E30 58N20 001W00 55N40 000W30 51N00 000E50 49N40		CP	2K70J3EJN			ND			0000 2400	
481	1753.40	E		MACHICHACO RADIO	E	002W45 43N27 002W45 43N27	370	CP	2K70J3EJN			ND			0000 2400	
2804	1753.40	EGY		RADIO	EGY	029E52 31N12 029E52 31N12	600	CP	2K80J3E			ND			0000 2400	
427	1753.40	FNL		HANKO	FNL	022E57 59N50 022E57 59N50	500	CP	2K70J3E			ND			0000 2400	
711	1753.40	I		ANCONA	I	013E31 43N37 013E31 43N37	380	CO	2K80J3E			ND			0000 2400	
574	1753.40	IRL		VALENTIA	IRL	010W21 51N56 010W21 51N56	370	CP	2K80J3EJN			ND			0000 2400	
881	1753.40	IRQ		BASRAH	IRQ	047E47 30N33 025E00 30N00 080E00 00S01		CR	2K70J3EJN			ND			0000 2400	
2917	1753.40	LBY		TRIPOLI RADIO	LBY	013E11 32N54 013E11 32N54	450	CP	2K80J3E			ND			0000 2400	
2588	1753.40	TUR		CANAKKALE	TUR	026E24 40N08 026E24 40N08	250	CP	2K70J3EJN			ND			0000 2400	
2681	1756.40	CME		LIMBE	CME	009E22 04N02 009E22 04N02	400	CP	2K80J3E			ND			0700 1900	
2696	1756.40	E		PALMA DE MALLORCA	E	002W43 39N32 002W43 39N32	370	CP	2K70J3E			ND			0000 2400	
146	1756.40	G		HUMBER RADIO	G	000E17 53N20 000E17 53N20	160	CP	2K80J3EJN			ND			0000 2400	
163	1756.40	G		PORTPATRICK RADIO	G	005W07 54N51 005W07 54N51	240	CP	2K80J3EJN			ND			0000 2400	
171	1756.40	G		STONEHAVEN RADIO	G	002W13 56N57 002W13 56N57	240	CP	2K80J3EJN			ND			0000 2400	
174	1756.40	G		WICK RADIO	G	003W06 58N26 003W06 58N26	320	CP	2K80J3EJN			ND			0000 2400	
816	1756.40	I		TRAPANI RADIO	I	012E30 38N01 012E30 38N01	400	CP	2K80J3E			ND			0000 2400	
2080	1756.40	ISL		SIGLUFJORDUR RADIO	ISL	018W57 66N11 018W57 66N11	750	CP	3K00H3EJN			ND			0000 2400	
2577	1756.40	MRC		AGADIR RADIO	MRC	009W33 30N22 009W33 30N22		CP	2K80H3E			ND				
2320	1756.40	POL		MIEDZYWODZIE	POL	014E42 54N01 014E42 54N01	800	OT	2K70J3EJN			ND			0000 2400	
2448	1756.40	ROU		MANGALIA	ROU	028E35 43N48 028E35 43N48	500	CP	2K80J3E			ND			0000 2400	
2349	1756.40	UAE		BADA HAMAMA	UAE	052E45 24N15 052E45 25N00	200	CV	3K00J3EKF			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1342	1756.40		URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	700	OT 2K35J3E			ND			0000 2400	
2827	1756.40		YEM	ALAHMADI	YEM	042E54 14N55	042E54 14N55	500	CP 2K80J3E			ND			0000 2400	
2736	1759.40		ALB	SHENGJIN RADIO	ALB	019E35 41N49	019E35 41N49	200	CP 2K70J3EJN			ND			0000 2400	
2184	1759.40		ALG	BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	700	CP 2K80J3E			ND			0000 2400	
2048	1759.40		DNK	SKAGEN	DNK	010E34 57N44	010E34 57N44	350	CP 2K80J3E			ND			0000 2400	
2052	1759.40		DNK	TORSHAVN	DNK	006W47 62N01	006W47 62N01	350	CP 2K80J3E			ND			0000 2400	
476	1759.40		E	FINISTERRE RADIO	E	009W16 42N54	009W16 42N54	370	CP 2K70J3EJN			ND			0000 2400	
418	1759.40		FNL	VAASA RV	FNL	021E43 63N05	021E43 63N05	300	CO 2K70J3E			ND			0000 2400	
155	1759.40		G	NITON RADIO	G	001W18 50N35	001W18 50N35	320	CP 2K80J3EJN			ND			0000 2400	
2832	1759.40		GHA	TEMA	GHA	000W00 05N37	000W00 05N37	600	CP 2K80J3E			ND			0000 2400	
2442	1759.40		ROU	CONSTANTA	ROU	028E37 44N06	028E37 44N06	250	OT 2K80J3E			ND			0000 2400	
2352	1759.40		UAE	SHARJAH	UAE	055E17 25N22	055E17 25N22	200	CV 2K80J3E			ND			0700 2000	
1221	1759.40		URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	700	CO 2K35J3E			ND			0000 2400	
2083	1762.40		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40	850	CP 2K80J3E			ND			0000 2400	
2679	1762.40		CME	DOUALA	CME	009E43 04N01	009E43 04N01	400	CV 2K80J3E			ND			0000 2400	
514	1762.40		E	ARRECIFE RADIO	CNR	013W31 29N08	013W31 29N08	370	CP 2K70J3EJN			ND			0000 2400	
471	1762.40		E	CORUNA RADIO	E	008W27 43N22	008W27 43N22	370	CP 2K70J3EJN			ND			0000 2400	
144	1762.40		G	HUMBER RADIO	G	000E17 53N20	000E17 53N20	160	CP 2K80J3EJN			ND			0000 2400	
754	1762.40		I	CROTONE RADIO	I	017E08 39N03	017E08 39N03	400	CP 2K80J3E			ND			0000 2400	
767	1762.40		I	LIVORNO RADIO	I	010E11 43N29	010E11 43N29	200	CP 2K80J3E			ND			0000 2400	
2074	1762.40		ISL	NESKAUPSSTADUR RADIO	ISL	013W42 65N09	013W42 65N09	750	CP 3K00H3EJN			ND			0000 2400	
2899	1762.40		MTN	NOUAKCHOTT RADIO	MTN	015W58 18N06	015W58 18N06	600	CP 2K80J3E			ND			0000 2400	
2335	1762.40		POL	SWINOUJSCIE	POL	014E15 53N52	014E15 53N52	800	OT 2K70J3EJN			ND			0000 2400	
2356	1762.40		UAE	SHARJAH	UAE	055E17 25N22	055E17 25N22	150	CV 2K80J3E			ND			0000 2400	
1194	1762.40		URS	ROSTOV-NA-DONU	URS	039E40 47N16	039E40 47N16	700	CO 2K35J3E			ND			0000 2400	
2087	1765.40		ALG	ALGER RADIO	ALG	003E18 36N40	003E18 36N40	800	CP 2K80J3E			ND			0000 2400	
2050	1765.40		DNK	ROENNE	DNK	015E07 55N03	015E07 55N03	350	CP 2K80J3E			ND			0000 2400	
2688	1765.40		E	VIGO	E	008W44 42N14	008W44 42N14	370	CP 2K70J3E			ND			0000 2400	
142	1765.40		G	GUERNSEY RADIO	G	002W31 49N27	002W31 49N27	150	CP 2K80J3EJN			ND			0000 2400	
172	1765.40		G	WICK RADIO	G	003W06 58N26	003W06 58N26	320	CP 2K80J3EJN			ND			0000 2400	
2833	1765.40		GHA	TAKORADI	GHA	001W45 04N54	001W45 04N54	600	CP 2K80J3E			ND			0000 2400	
752	1765.40		I	CROTONE RADIO	I	017E08 39N03	017E08 39N03	400	CP 2K80J3E			ND			0000 2400	
2544	1765.40		MRC	EL JADIDA RADIO	MRC	008W40 33N07	008W40 33N07	300	CP 2K80H3E			ND			0000 2400	
2456	1765.40		ROU	SULINA	ROU	029E39 45N09	029E39 45N09	1000	CP 2K80J3E			ND			0000 2400	
2357	1765.40		UAE	DUBAI	UAE	055E16 25N14	055E16 25N14	160	CV 3K00J3E			ND			0000 2400	
1278	1765.40		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CP 2K35J3E			ND			0000 2400	
2875	1766.40		AFS	LUDERITZ	NMB	015E04 26S38	015E04 26S38	400	CP 2K80J3E			ND			0000 2400	
2660	1768.40		CME	CAMPO	CME	009E51 02N22	009E51 02N22	400	CP 2K80J3E			ND			0000 2400	
2057	1768.40		DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33	350	CP 2K80J3E			ND			0000 2400	
452	1768.40		E	CABO DE GATA RADIO	E	002W12 36N43	002W12 36N43	370	CP 2K70J3EJN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
150	1768.40	G		LANDS END RADIO	G	005W40 50N07	005W40 50N07	320	CP 2K80J3EJN			ND			0000 2400	
1980	1768.40	GRC		ATHINAI	GRC	023E53 38N00	023E53 38N00	370	CP 2K70J3EJN			ND			0000 2400	
824	1768.40	I		TRIESTE RADIO	I	013E46 45N40	013E46 45N40	400	CP 2K80J3E			ND			0000 2400	
865	1768.40	MRC		LAAYOUNE	MRC	013W13 27N10	013W13 27N10	450	CP 2K80H3E			ND			0000 2400	
2251	1768.40	OMA		MUSCAT	OMA	058E30 23N37	058E30 23N37	400	CO 3K00J3E			ND			0000 2400	
359	1768.40	S		HAARSFJAERDEN RADIO	S	018E40 58N59	018E40 58N59	200	CO 2K80J3E			ND			0000 2400	
2415	1768.40	TUN		TUNIS RADIO	TUN	010E11 36N53	003E18 36N40 001E54 41N16 020E03 32N07 033E26 35N09 005E21 43N19 012E31 41N48		CP 2K70J3EJN			ND			0000 2400	
2359	1768.40	UAE		JEBEL DHANNA	UAE	052E38 24N10	052E38 24N10	200	CV 3K00J3E			ND			0000 2400	
1237	1768.40	URS		BAKU	URS	049E45 40N20	049E45 40N20	700	OT 2K35J3E			ND			0000 2400	
2182	1771.40	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	001W52 35N06	700	CP 2K80J3E			ND			0000 2400	
2659	1771.40	CME		CAMPO	CME	009E51 02N22	009E51 02N22	400	CV 2K80J3E			ND			0000 2400	
2468	1771.40	CTI		ABIDJAN	CTI	003W58 05N21	003W58 05N21	300	CP 2K80J3E			ND			0000 2400	
1894	1771.40	F		BOULOGNE MER	F	001E38 50N43	001E37 50N43	1200	CP 2K80J3E			ND			0000 2400	
159	1771.40	G		NORWICK RADIO	G	000W45 60N29	000W45 60N29	320	CP 2K80J3EJN			ND			0000 2400	
784	1771.40	I		MESSINA RADIO	I	015E33 38N11	015E33 38N11	400	CP 2K80J3E			ND			0000 2400	
2077	1771.40	ISL		REYKJAVIK RADIO	ISL	022W02 64N09	022W02 64N09	900	CP 3K00H3EJN			ND			0000 2400	
1689	1771.40	NOR		BODOE	NOR	014E23 67N16	014E23 67N16	370	CP 3K00J3E			ND			0000 2400	
363	1771.40	S		KARLSKRONA RADIO	S	015E33 56N11	015E33 56N11	200	CO 2K80J3E			ND			0000 2400	
941	1771.40	URS		IALTA	UKR	034E10 44N39	034E10 44N39	700	CP 2K35J3E			ND			0000 2400	
2191	1774.40	BEL		ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP 2K99R3E			ND			0000 2400	
1976	1774.40	BUL		MITCHOURIN RADIO	BUL	027E08 42N09	027E57 43N12 030E46 46N30 037E47 44N43 041E38 41N39 036E21 41N19 028E58 41N01		CO 2K80J3E			ND			0000 2400	
750	1774.40	I		CIVITAVECCHIA RADIO	I	011E49 42N01	011E49 42N01	400	CP 2K80J3E			ND			0000 2400	
2523	1774.40	KWT		HUBAN	KWT	047E41 29N31	047E41 29N31	160	CP 6K00B8E			ND			0000 2400	
2895	1774.40	LBY		TOBRUK	LBY	023E59 32N02	023E59 32N02	500	CP 2K70J3E			ND			0000 2400	
871	1774.40	MRC		NADOR	MRC	002W56 35N10	002W56 35N10	550	CP 2K80H3E			ND			0000 2400	
1708	1774.40	NOR		TRONDHEIM	NOR	010E25 63N26	010E25 63N26	100	CO 3K00J3E			ND			0000 2400	
369	1774.40	S		TINGSTAEDE RADIO	S	018E36 57N44	018E36 57N44	300	CO 2K80J3E			ND			0000 2400	
2252	1774.40	TGO		LOME RADIO	TGO	001E36 06N15	001E36 06N15	200	CP 2K80J3E			ND			0715 1930	
2671	1777.40	CME		GRAND BATANGA	CME	009E52 02N43	009E52 02N43	400	CP 2K80J3E			ND			0000 2400	
2470	1777.40	CTI		ABIDJAN RADIO	CTI	003W58 05N21	003W58 05N21	300	CP 2K80J3E			ND			0000 2400	
1841	1777.40	F		BAYONNE	F	001W24 43N16	005W00 51N00	300	CO 2K80J3EJN			ND			0000 2400	
1987	1777.40	GRC		RHODOS	GRC	028E12 36N26	028E12 36N26	370	CP 2K70J3EJN			ND			0000 2400	
448	1777.40	HOL		DEN HELDER	HOL	004E45 52N55	004E45 52N55	360	CP 2K80J3EJN			ND			0000 2400	
728	1777.40	I		AUGUSTA RADIO	I	015E13 37N13	015E13 37N13	400	CP 2K80J3E			ND			0000 2400	
2321	1777.40	POL		MIEDZYZDROJE	POL	014E28 53N56	014E28 53N56	600	OT 2K70J3EJN			ND			0000 2400	
1078	1777.40	URS		MUMRA	URS	047E41 45N45	047E41 45N45	700	CO 2K35J3E			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2678	1780.40	CME		DOUALA	CME	009E43 04N01	009E43 04N01	400	CP	2K80J3E		ND			0000 2400	
465	1780.40	E		CHIPIONA RADIO	E	006W25 36N42	006W25 36N42	370	CP	2K70J3EJN		ND			0000 2400	
140	1780.40	G		CULLERCOATS RADIO	G	001W28 55N04	001W28 55N04	320	CP	2K80J3EJN		ND			0000 2400	
1984	1780.40	GRC		KERKYRA	GRC	019E54 39N37	019E54 39N37	370	CP	2K70J3EJN		ND			0000 2400	
2249	1780.40	OMA		WUDHAM	OMA	057E33 23N49	057E33 23N49	400	CO	3K00J3E		ND			0000 2400	
2295	1780.40	POL		DARLOWO	POL	016E25 54N24	016E25 54N24	500	CV	2K70J3EJN		ND			0000 2400	
380	1780.40	S		HAERNOESAND RADIO	S	021E36 64N28	021E36 64N28	500	CP	2K80J3E		ND			0000 2400	
2412	1780.40	TUN		TABARKA RADIO	TUN	006E25 36N57	005E21 43N19 003E18 36N40		CP	2K70J3EJN		ND			0600 1900	
							007E45 36N54 013E22 38N07									
							008E56 44N25 014E14 40N50									
1141	1780.40	URS		NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	700	CP	2K35J3E		ND			0000 2400	
1786	1783.40	D		CUXHAVEN	D	008E43 53N32	006E00 53N50 006E00 54N50		CO	2K80J3E		ND			0000 2400	
							009E00 54N50 009E00 53N50									
138	1783.40	G		ANGLESEY RADIO	G	004W18 53N24	004W18 53N24	160	CP	2K80J3EJN		ND			0000 2400	
715	1783.40	I		LA SPEZIA	I	009E43 44N06	009E43 44N06	220	CO	2K80J3E		ND			0000 2400	
776	1783.40	I		MAZARA VALLO RADIO	I	012E34 37N38	012E34 37N38	400	CP	2K80J3E		ND			0000 2400	
2524	1783.40	KWT		HUBAN	KWT	047E41 29N31	047E41 29N31	160	CP	6K00B8E		ND			0000 2400	
2575	1783.40	MRC		TANGER RADIO	MRC	005W51 35N44	005W51 35N44	500	CP	2K80H3E		ND				
1685	1783.40	NOR		OERLANDET	NOR	009E36 63N41	009E36 63N41	370	CP	3K00J3E		ND			0000 2400	
1733	1783.40	NOR		VARDOE	NOR	029E04 70N52	029E04 70N52	370	CP	3K00J3E		ND			0800 1800	
2452	1783.40	ROU		TULCEA	ROU	028E50 45N12	028E50 45N12	1000	CP	2K80J3E		ND			0000 2400	
1241	1783.40	URS		MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	700	CO	2K35J3E		ND			0000 2400	
911	1786.40	CYP		CYPRUS RADIO	CYP	033E17 35N03	033E17 35N03	300	CP	2K80J3E		ND			0000 2400	
494	1786.40	E		CADIZ	E	006W12 36N15	006W12 36N15	400	CO	2K70J3EJN		ND			0000 2400	
1851	1786.40	F		LA PALLICE	F	000W59 45N56	005W00 51N00	300	CO	2K80J3EJN		ND			0000 2400	
425	1786.40	FNL		KOTKA RV	FNL	026E46 60N28	026E46 60N28	300	CO	2K70J3E		ND			0000 2400	
2834	1786.40	GHA		TAKORADI	GHA	001W45 04N54	001W45 04N54	600	CP	2K80J3E		ND			0000 2400	
794	1786.40	I		NAPOLI RADIO	I	014E14 40N50	014E14 40N50	400	CP	2K80J3E		ND			0000 2400	
1720	1786.40	NOR		FARSUND	NOR	006E45 58N04	006E45 58N04	370	CP	3K00J3E		ND			0800 1800	
1764	1789.40	D		KIEL RADIO	D	010E08 54N26	010E10 54N30 019E35 54N20		CP	2K70J3EJN		ND			0000 2400	
							019E20 56N00 017E50 57N40									
							009E00 59N30 009E00 55N55									
139	1789.40	G		CLYDE (TOWARD)	G	004W59 55N52	004W59 55N52	275	CO	2K80J3E		ND			0000 2400	
161	1789.40	G		PORTLAND	G	002W27 50N31	002W27 50N31	275	CO	2K80J3E		ND			0000 2400	
780	1789.40	I		MAZARA VALLO RADIO	I	012E34 37N38	012E34 37N38	400	CP	2K80J3E		ND			0000 2400	
2576	1789.40	MRC		TANGER RADIO	MRC	005W51 35N44	005W51 35N44	500	CP	2K80H3E		ND				
1478	1789.40	URS		BELOMORSK	URS	034E41 64N36	034E41 64N36	700	CO	2K35J3E		ND			0000 2400	
2166	1792.40	ALG		BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	700	CP	2K80J3E		ND			0000 2400	
2479	1792.40	CTI		S. PEDRO PORT	CTI	006W37 04N44	006W37 04N44	200	CR	2K80J3E		ND			0000 2400	
345	1792.40	DDR		RUEGEN	DDR	013E37 54N35	013E37 54N35	1000	CP	2K40JXX		ND			0000 2400	
1846	1792.40	F		CHERBOURG	F	001W37 49N35	001W37 49N35	350	CO	2K80J3EJN		ND			0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 51 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
420	1792.40		FNL	HAILUOTO RV	FNL	024E39 64N58	024E39 64N58	300	CO	2K70J3E		ND			0000 2400	
318	1792.40		G	MORAY COASTGUARD	G	001W46 57N30	001W46 57N30	180	OT	2K80J3EJN		ND			0000 2400	
2230	1792.40		GAB	LIBREVILLE	GAB	009E26 00N25	009E26 00N25	250	CR	2K80J3E		ND			0600 1800	
449	1792.40		HOL	AMSTERDAM	HOL	004E51 52N22	004E51 52N22	180	CP	2K80J3EJN		ND			0000 2400	
721	1792.40		I	ANCONA RADIO	I	013E28 43N36	013E28 43N36	200	CP	2K80J3E		ND			0000 2400	
600	1792.40		POR	ALCANTARA	POR	009W13 38N43	009W13 38N43	200	CO	2K70J3EJN		ND			0000 2400	
2437	1792.40		ROU	AGIGEA	ROU	028E39 44N06	028E39 44N06	700	CP	2K80J3E		ND			0000 2400	
2089	1795.40		ALG	ORAN RADIO	ALG	000W08 35N46	000W08 35N46	1050	CP	2K80J3E		ND			0000 2400	
1960	1795.40		BUL	VARNA RADIO	BUL	027E46 43N04	027E57 43N12 030E46 46N30		CO	2K80J3E		ND			0000 2400	
							037E47 44N43 041E38 41N39									
							036E21 41N19 028E58 41N01									
2229	1795.40		GAB	LIBREVILLE	GAB	009E26 00N25	009E26 00N25	250	CR	2K80J3E		ND			0000 2400	
2816	1795.40		GUI	CONAKRY	GUI	013W43 09N31	029E51 31N11	70	CR	2K80J3E		ND			0000 2400	
761	1795.40		I	GENOVA RADIO	I	008E56 44N25	008E56 44N25	200	CP	2K80J3E		ND			0000 2400	
544	1795.40		IRL	HAULBOWLINE	IRL	008W18 51N50	008W18 51N50	370	CO	2K80J3EJN		ND			0000 2400	
2419	1795.40		MLT	XLOKK RADIO	MLT	014E32 35N49	014E32 35N49	1000	CP	2K80J3EJN		ND			0000 2400	
864	1795.40		MRC	LAAYOUNE	MRC	013W13 27N10	013W13 27N10	450	CP	2K80H3E		ND			0000 2400	
2336	1795.40		POL	SWINOUJSCIE	POL	014E15 53N52	014E15 53N52	700	CR	2K70J3EJN		ND			0000 2400	
2098	1798.40		ALG	TENES RADIO	ALG	001E18 36N32	001E18 36N32	750	CP	2K80J3E		ND			0000 2400	
2650	1798.40		BEN	COTONOU	BEN	002E28 06N22	002E28 06N22	600	CP	2K80J3E		ND			0000 2400	
1853	1798.40		F	LE HAVRE	F	000E06 49N29	000E06 49N29	350	CO	2K80J3EJN		ND			0000 2400	
173	1798.40		G	WICK RADIO	G	003W06 58N26	003W06 58N26	320	CP	2K80J3EJN		ND			0000 2400	
2421	1798.40		MLT	XLOKK RADIO	MLT	014E32 35N49	014E32 35N49	1000	CP	2K80J3EJN		ND			0000 2400	
874	1798.40		MRC	SAFI RADIO	MRC	009W14 32N18	009W14 32N18	200	CP	2K80H3E		ND			0000 2400	
597	1798.40		POR	DOCA PESCA	POR	009W13 38N43	009W13 38N43	200	OT	2K70J3EJN		ND			0000 2400	
2441	1798.40		ROU	CONSTANTA	ROU	028E37 44N06	028E37 44N06	700	CP	2K80J3E		ND			0000 2400	
387	1798.40		S	STOCKHOLM RADIO	S	014E19 55N29	014E19 55N29	500	CP	2K80J3E		ND			0000 2400	
1188	1798.40		URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CP	2K35J3E		ND			0000 2400	
1310	1798.40		URS	MURMANSK	URS	033E10 68N58	033E10 68N58	700	CP	2K35J3E		ND			0000 2400	

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Document 102-F/E/S
11 mars 1985
Original: français/anglais/espagnol

COMMISSION 5
COMMITTEE 5
COMISION 5

PROJECT DE PLAN D'ASSIGNATIONS DE FREQUENCE AUX STATIONS DU SERVICE DE RADIONAVIGATION AERONAUTIQUE (RADIOPHARES) DE LA REGION 1 DANS LES BANDES 415 - 435 kHz et 510 - 526,5 kHz

DRAFT FREQUENCY ASSIGNMENT PLAN FOR STATIONS IN THE AERONAUTICAL RADIONAVIGATION SERVICE (RADIOBEACONS) IN REGION 1 IN THE BANDS 415 - 435 kHz and 510 - 526.5 kHz

PROYECTO DE PLAN DE ASIGNACIONES DE FRECUENCIA A ESTACIONES DEL SERVICIO DE RADIONAVEGACION AERONAUTICA (RADIOFAROS) DE LA REGION 1 EN LAS BANDAS 415 - 435 kHz y 510 - 526,5 kHz

Annexe/Annex/Anexo: 1

Renseignements inclus dans les colonnes du Plan (Région 1) pour le service de radionavigation aéronautique (radiophares) dans les bandes 415 - 435 kHz et 510 - 526,5 kHz

Colonne

0. Numéro de série de l'IFRB

1. Fréquence assignée (kHz)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude (degrés et minutes) de la station d'émission

7. Longitude et latitude (degrés et minutes) du centre de la zone de service et rayon (km) de la zone de service circulaire

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance apparente rayonnée nécessaire sur une antenne verticale courte (p.a.r.v.) (dBW)

(valeur calculée sur la base du champ minimum à protéger et de la portée de service dans les conditions de propagation par onde de sol)

11. Caractéristiques de l'antenne (ND)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

ANNEX 2

Information included in the columns of the Plan (Region 1) for the aeronautical radionavigation service (radiobeacons) in the bands 415 - 435 kHz and 510 - 526.5 kHz

Column

0. IFRB Serial No.

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and necessary class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)

(value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Informaciones incluidas en las columnas del Plan (Región 1) para el servicio de radionavegación aeronáutica (radiofaros) en las bandas 415 - 435 kHz y 510 - 526,5 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6. Longitud y latitud (grados y minutos) de la estación transmisora

7. Zona de servicio: longitud y latitud (grados y minutos) del centro de la zona de servicio y radio (km) de la zona de servicio circular

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión necesaria

10. Potencia radiada aparente referida a una antena vertical corta p.r.a.v. (dBW)

(valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

11. Características de la antena (ND)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50964	415.00	ALG	OUARGLA	ALG	005E25	31N56	005E25	31N56	100	RC	100HA1A	ND	0000 2400
50498	415.00	ARS	SULAYEL	ARS	045E41	20N34	045E41	20N34	128	RC	1K02A2AAN	ND	0000 2400
50901	415.00	BDI	KIOFI	BDI	030E08	04S03	030E08	04S03	37	RC	100HA1A	ND	0600 1800
50569	415.00	BOT	GABARONE	BOT	025E55	24S41	025E55	24S41	240	RC	2K10A2A	ND	0000 2400
50570	415.00	BOT	GABARONE	BOT	025E55	24S41	025E55	24S41	240	RC	100HN0N	ND	0000 2400
50490	415.00	BUL	ROUSSE	BUL	026E00	43N50	026E00	43N50	50	RC	100HA1A	ND	0000 2400
50996	415.00	CME	DOUALA	CME	009E43	04N01	009E43	04N01	180	RC	100HA1A	ND	0000 2400
51025	415.00	CME	KOUSSERI	CME	015E02	12N05	015E02	12N05	180	RC	100HA1A	ND	0000 2400
51013	415.00	CME	MINTOM	CME	015E17	02N40	015E17	02N40	150	RC	100HA1A	ND	0000 2400
50430	415.00	D	FASSBERG	D	010E11	52N55	010E11	52N55	93	RC	2K00A2A	ND	0000 2400
50429	415.00	D	NOERVENICH	D	006E40	50N50	006E40	50N50	65	RC	2K00A2A	ND	0000 2400
50428	415.00	D	ROTHENBACH	D	011E15	49N29	011E15	49N29	93	RC	2K00A2A	ND	0000 2400
50345	415.00	F	TOULOUSE LABASTIDE	F	001E41	43N29	001E41	43N29	93	RC	100HA1AAN	ND	0000 2400
50093	415.00	FNL	PATTIJOKI	FNL	024E42	64N41	024E42	64N41	50	RC	800HA2A	ND	0000 2400
50390	415.00	G	BARTON	G	002W27	53N28	002W27	53N28	47	RC	850HA2A	ND	0000 2400
50397	415.00	G	CHILTERN	G	000W31	51N37	000W31	51N37	47	RC	850HA2A	ND	0000 2400
50421	415.00	G	PUMP STATION 2	G	000E12	55N17	000E12	55N17	37	RC	850HA2A	ND	0000 2400
50116	415.00	HOL	OILRIG	HOL	004E20	53N25	004E20	53N25	50	RC	2K14A2AAN	ND	0000 2400
50572	415.00	POL	BELCHATOW	POL	019E20	51N22	019E20	51N22	75	RC	800HA2AAN	ND	0000 2400
50036	415.00	S	ARVIKA	S	012E38	59N40	012E38	59N40	28	RC	1K00A2A	ND	0000 2400
50046	415.00	S	LINKOEPING/SAAB	S	015E48	58N23	015E48	58N23	28	RC	1K00A2A	ND	0000 2400
50048	415.00	S	LUDVIKA	S	015E06	60N06	015E06	60N06	28	RC	1K00A2A	ND	0000 2400
50055	415.00	S	VAARGAARDA	S	012E49	58N03	012E49	58N03	28	RC	1K00A2A	ND	0000 2400
50806	415.00	TUR	URFA	TUR	038E45	37N08	038E45	37N08	75	RC	2K10A2AAN	ND	0000 2400
50185	415.00	URS	VINNITSA	UKR	028E30	49N15	028E30	49N15	150	RC	2K10A2AAN	ND	0000 2400
50121	415.00	URS	RIGA	URS	024E07	56N58	024E07	56N58	50	RC	2K10A2AAN	ND	0000 2400
50157	415.00	URS	SMOLENSK	URS	031E43	54N48	031E43	54N48	150	RC	2K10A2AAN	ND	0000 2400
50122	415.00	URS	SUKHUMI	URS	041E00	43N00	041E00	43N00	150	RC	2K10A2AAN	ND	0000 2400
50291	415.00	YUG	OSIJEK	YUG	018E51	45N27	018E51	45N27	25	RC	2K10A2A	ND	0000 2400
50529	416.00	ALG	ALGER	ALG	003E13	36N42	003E13	36N42	300	RC	100HA1A	ND	0000 2400
50512	416.00	ALG	INSALAH	ALG	002E31	27N15	002E31	27N15	300	RC	100HA1A	ND	0000 2400
50492	416.00	ARS	RAGHBA	ARS	044E35	23N55	044E35	23N55	128	RC	1K02A2AAN	ND	0000 2400
51095	416.00	BDI	BULINGA	BDI	029E19	03S14	029E19	03S14	40	RC	100HA1A	ND	0000 2400
50484	416.00	BUL	IAMBOL	BUL	026E30	42N28	026E30	42N28	30	RC	100HA1A	ND	0000 2400
51002	416.00	CME	TOUBORO	CME	015E40	07N40	015E40	07N40	180	RC	100HA1A	ND	0000 2400
50723	416.00	CPV	FOGO	CPV	024W29	14N53	024W29	14N53	93	RC		ND	0000 2400
50655	416.00	DDR	LEIPZIG-MOCKAU	DDR	012E17	51N26	012E17	51N26	20	RC	2K10A2A	ND	0000 2400
50241	416.00	E	SANTANDER	E	003W51	43N26	003W51	43N26	93	RC	2K10A2A	ND	0000 2400
50380	416.00	F	BORDEAUX SOUGE	F	000W48	44N51	000W48	44N51	46	RC	100HA1AAN	ND	0000 2400
50364	416.00	F	CAMBRAI NIERGNIES	F	003E16	50N08	003E16	50N08	93	RC	100HA1AAN	ND	0000 2400

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50374	416.00	F		DIEUZE	F	006E45 48N47	006E45 48N47	46	RC 100HA1A		ND	0000 2400	
50363	416.00	F		LA VERDIERE	F	006E00 43N40	006E00 43N40	93	RC 100HA1AAN		ND	0000 2400	
50360	416.00	F		USSEL THALAMY	F	002E26 45N31	002E26 45N31	46	RC 100HA1AAN		ND	0000 2400	
50098	416.00	FNL		RAYSKALA	FNL	024E07 60N45	024E07 60N45	90	RC 100HA1A		ND	0000 2400	
50073	416.00	FNL		ROVANIEMI	FNL	025E58 66N38	025E58 66N38	90	RC 100HA1A		ND	0000 2400	
50406	416.00	G		NEWCASTLE	G	001W48 55N00	001W48 55N00	47	RC 850HA2A		ND	0000 2400	
51070	416.00	GHA		KADE	GHA	005W55 06N40	005W55 06N40	25	RC 2K04A2A		ND	0000 2400	
50927	416.00	GRC		KASTELORIZO	GRC	029E34 36N08	029E34 36N08	50	RC 850HA2A		ND	0000 2400	
50925	416.00	GRC		SKYROS	GRC	024E29 38N58	024E29 38N58	60	RC 850HA2A		ND	0000 2400	
50004	416.00	HNG		BEKESCSABA	HNG	021E08 46N41	021E08 46N41	50	RC 900HA2AAN		ND	0500 1900	
50017	416.00	HNG		PUSZTAEGRES	HNG	018E31 46N52	018E31 46N52	50	RC 900HA2AAN		ND	0000 2400	
50766	416.00	HOL		LELYSTAD	HOL	005E32 52N27	005E32 52N27	30	RC 2K14A2AAN		ND	0000 2400	
50464	416.00	IRL		PLATFORM 1	IRL	011W00 53N00	011W00 53N00	45	RC 2K14A2AAN		ND	0000 2400	
51091	416.00	LBY		TAZERBO	LBY	021E06 25N40	021E06 25N40	300	RC 2K00A2A		ND	0000 2400	
50002	416.00	MLT		LUCA	MLT	014E32 35N49	014E32 35N49	300	RC 1K00N0N		ND	0000 2400	
50843	416.00	MRC		BENI MELLAL	MRC	006W20 32N55	006W20 32N55	300	RC 2K04A2A		ND	0000 2400	
50852	416.00	MRC		HADUZA	MRC	011W10 27N15	011W10 27N15	200	RC 2K04A2A		ND	0000 2400	
50585	416.00	POL		POZNAN	POL	017E02 52N56	017E02 52N56	75	RC 2K00A2AAN		ND	0000 2400	
50382	416.00	POR		LAJES	AZR	027W06 38N46	027W06 38N46	180	RC 100HA1A		ND	0000 2400	
50385	416.00	POR		PORTO SANTO	MDR	016W21 33N04	016W21 33N04	180	RC 100HA1A		ND	0000 2400	
50384	416.00	POR		TANCOS	POR	008W21 39N28	008W21 39N28	180	RC 100HA1A		ND	0000 2400	
50741	416.00	ROU		CONSTANTA	ROU	028E31 44N25	028E31 44N25	28	RC 2K14A2A		ND	0000 2400	
50037	416.00	S		BACCHUS	S	017E03 62N34	017E03 62N34	47	RC 100HA1A		ND	0000 2400	
50038	416.00	S		BERGA	S	018E13 59N04	018E13 59N04	47	RC 1K00A2A		ND	0000 2400	
50027	416.00	SUI		BERN	SUI	007E31 46N54	007E31 46N54	46	RC 2K00A2A		ND	0000 2400	
50217	416.00	TCH		KUNOVICE	TCH	017E30 49N07	017E30 49N07	45	RC 2K40A2A		ND	0000 2400	
50224	416.00	TCH		VODOCHODY	TCH	014E26 50N13	014E26 50N13	45	RC 2K40A2A		ND	0000 2400	
50934	416.00	TGO		NIAMTOUGO	TGO	001E03 09N42	001E03 09N42		RC 2K04A2AAN		ND	0000 2400	
50153	416.00	URS		BAKU	URS	049E45 40N20	049E45 40N20	50	RC 2K10A2AAN		ND	0000 2400	
50124	416.00	URS		KICHINEV	URS	028E52 47N00	028E52 47N00	50	RC 2K10A2AAN		ND	0000 2400	
50180	416.00	URS		MAKHATCHKALA	URS	047E31 42N59	047E31 42N59	50	RC 2K10A2AAN		ND	0000 2400	
50123	416.00	URS		YEREVAN	URS	044E36 40N14	044E36 40N14	150	RC 2K10A2AAN		ND	0000 2400	
50301	416.00	YUG		POZAREVAC	YUG	021E09 44N37	021E09 44N37	30	RC 2K10A2A		ND	0000 2400	
50292	416.00	YUG		UZICE	YUG	019E52 43N46	019E52 43N46	25	RC 2K10A2A		ND	0000 2400	
50431	416.50	D		LECK	D	009E04 54N46	009E04 54N46	47	RC 2K00A2A		ND	0000 2400	
50497	417.00	ARS		SIBLI INTERSECTION	ARS	046E23 26N57	046E23 26N57	128	RC 1K02A2AAN		ND	0000 2400	
50482	417.00	BUL		SOFIA	BUL	023E24 42N41	023E24 42N41	30	RC 100HA1A		ND	0000 2400	
51008	417.00	CME		DJOUM	CME	012E38 02N40	012E38 02N40	180	RC 100HA1A		ND	0000 2400	
50783	417.00	CTI		ODIENNE	CTI	007W34 09N30	007W34 09N30	200	RC 2K10A2A		ND	0000 2400	
50461	417.00	D		EINBECK	D	009E50 51N50	009E50 51N50	47	RC 2K00A2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50432	417.00	D		HEIDELBERG	D	008E36 49N23	008E36 49N23	47	RC 2K00A2A		ND	0000 2400	
50645	417.00	DDR		GROSS KREUTZ	DDR	012E46 52N24	012E46 52N24	20	RC 2K10A2A		ND	0000 2400	
50254	417.00	E		ALCOBENDAS	E	003W41 40N35	003W41 40N35	56	RC 2K10A2A		ND	0000 2400	
50240	417.00	E		SANTIAGO	E	008W26 42N54	008W26 42N54	74	RC 2K10A2A		ND	0000 2400	
50462	417.00	ETH		MASSAWA	ETH	039E21 15N37	039E21 15N37	200	RC 2K80J3E		ND	0000 2400	
50346	417.00	F		AUXERRE BASSOU	F	003E30 47N55	003E30 47N55	46	RC 100HA1AAN		ND	0000 2400	
50361	417.00	F		TARBES OSSUN	F	000W01 43N12	000W01 43N12	46	RC 100HA1AAN		ND	0000 2400	
50097	417.00	FNL		RAUTAVAARA	FNL	028E08 63N25	028E08 63N25	90	RC 100HA1A		ND	0000 2400	
50395	417.00	G		BOURNEMOUTH	G	001W50 50N47	001W50 50N47	93	RC 850HA2A		ND	0000 2400	
50399	417.00	G		FINNINGLEY	G	001W00 53N29	001W00 53N29	47	RC 850HA2A		ND	0000 2400	
50403	417.00	G		LEUCHARS	G	002W52 56N22	002W52 56N22	56	RC 850HA2A		ND	0000 2400	
50418	417.00	G		OIL PLT INDE J	G	002E38 53N22	002E38 53N22	37	RC 850HA2A		ND	0000 2400	
50923	417.00	GRC		PAROS	GRC	025E08 37N01	025E08 37N01	60	RC 850HA2A		ND	0000 2400	
50117	417.00	HOL		EINDHOVEN	HOL	005E27 51N27	005E27 51N27	30	RC 2K14A2AAN		ND	0000 2400	
50110	417.00	I		PERETOLA	I	011E12 43N48	011E12 43N48	90	RC 2K04A2A		ND	0000 2400	
50465	417.00	IRL		PLATFORM 2	IRL	011W00 53N00	011W00 53N00	45	RC 2K14A2AAN		ND	0000 2400	
50562	417.00	MAU		RAPHAEL ISLAND	MAU	059E33 16S26	059E33 16S26	200	RC 1K02A2A		ND	0400 1100	
50540	417.00	MDG		BESALAMPY	MDG	044E29 16S45	044E29 16S45	90	RC 100HA1AAN		ND	0300 1500	
50595	417.00	POL		WROCLAW	POL	017E00 51N13	017E00 51N13	45	RC 2K00A2AAN		ND	0000 2400	
50745	417.00	ROU		CRAIOVA	ROU	023E59 44N19	023E59 44N19	46	RC 2K14A2A		ND	0000 2400	
50034	417.00	S		AENGELHOLM	S	012E54 56N16	012E54 56N16	28	RC 1K00A2A		ND	0000 2400	
50042	417.00	S		GAEVLE/SANDVIKEN	S	016E57 60N37	016E57 60N37	28	RC 1K00A2A		ND	0000 2400	
50031	417.00	SUI		LUGANO	SUI	008E55 46N00	008E55 46N00	46	RC 2K00A2A		ND	0000 2400	
50818	417.00	TUR		ETIMESGUT I	TUR	032E42 39N57	032E42 39N57	140	RC 2K10A2AAN		ND	0000 2400	
50285	417.00	URS		BREST	BLR	023E39 52N07	023E39 52N07	150	RC 2K10A2AAN		ND	0000 2400	
50191	417.00	URS		TCHERNOVTSY	UKR	025E55 48N20	025E55 48N20	45	RC 2K10A2AAN		ND	0000 2400	
50184	417.00	URS		ZAPOROJIE	UKR	034E19 48N31	034E19 48N31	50	RC 2K10A2AAN		ND	0000 2400	
50169	417.00	URS		GROZNYI	URS	045E40 43N20	045E40 43N20	50	RC 2K10A2AAN		ND	0000 2400	
50125	417.00	URS		MURMANSK	URS	032E46 68N58	032E46 68N58	150	RC 2K10A2AAN		ND	0000 2400	
50154	417.00	URS		ROSTOV NA DONU	URS	039E24 47N13	039E24 47N13	90	RC 2K10A2AAN		ND	0000 2400	
50293	417.00	YUG		LUCKO	YUG	016E04 45N45	016E04 45N45	25	RC 2K10A2A		ND	0000 2400	
50426	417.00	YUG		OHRID	YUG	020E49 41N20	020E40 41N23	25	RC 2K10A2A		ND	0000 2400	
50706	418.00	AFS		JAN SMUTS	AFS	028E13 26S14	028E13 26S14	100	RC 1K20H2A		ND	0000 2400	
50933	418.00	ALG		ANNABA	ALG	007E45 36N54	007E45 36N54	100	RC 100HA1A		ND	0000 2400	
50530	418.00	ALG		DJANET	ALG	009E26 24N16	009E26 24N16	300	RC 100HA1A		ND	0000 2400	
51009	418.00	ALG		TLEMCEN	ALG	001W21 35N02	001W21 35N02	100	RC 100HA1A		ND	0000 2400	
51028	418.00	ALG		TOUGGOURT	ALG	006E05 33N03	006E05 33N03	100	RC 100HA1A		ND	0000 2400	
50494	418.00	ARS		BIR DURB	ARS	041E49 24N20	041E49 24N20	128	RC 1K02A2AAN		ND	0000 2400	
50424	418.00	AUT		ZELTWEG	AUT	014E45 47N12	014E45 47N12	75	RC 2K10A2A		ND	0000 2400	
51016	418.00	CME		BAIKWA	CME	014E25 09N10	014E25 09N10	50	RC 100HA1A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
51004	418.00		CME	BETARE OYA	CME	014E07 05N36	014E07 05N36	50	RC 100HA1A		ND	0000 2400	
50975	418.00		CME	NGAOUNDERE	CME	013E34 07N22	013E34 07N22	50	RC 100HA1A		ND	0000 2400	
50793	418.00		CTI	GRAND BEREBY	CTI	006W55 04N38	006W55 04N38	200	RC 2K10A2A		ND	0000 2400	
50325	418.00		CYP	NICOSIA	CYP	033E22 35N09	033E22 35N09	250	RC 2K10A2A		ND	0000 2400	
50651	418.00		DDR	KLIX	DDR	014E30 51N16	014E30 51N16	50	RC 2K10A2A		ND	0000 2400	
50252	418.00		E	BAILEN	E	003W38 38N09	003W38 38N09	101	RC 2K10A2A		ND	0000 2400	
50244	418.00		E	POLLENSA	E	003E06 39N55	003E06 39N55	74	RC 2K10A2A		ND	0000 2400	
50330	418.00		F	CALAIS OYE	F	002E03 51N00	002E03 51N00	28	RC 100HA1AAN		ND	0000 2400	
50332	418.00		F	ETAIN	F	005E40 49N13	005E40 49N13	46	RC 100HA1AAN		ND	0000 2400	
50371	418.00		F	VALDAHON	F	006E20 47N13	006E20 47N13	46	RC 100HA1A		ND	0000 2400	
50340	418.00		F	VILLEFRANCHE TARARE	F	004E38 45N55	004E38 45N55	46	RC 100HA1AAN		ND	0000 2400	
50095	418.00		FNL	PIIKAJARVI	FNL	022E12 61N15	022E12 61N15	20	RC 800HA2A		ND	0000 2400	
50099	418.00		FNL	SELANPAA	FNL	026E48 61N04	026E48 61N04	30	RC 800HA2A		ND	0000 2400	
50823	418.00		G	PLATFORM DP5	G	003W31 53N59	003W31 53N59	37	RC 850HA2A		ND	0000 2400	
50621	418.00		GAB	MOUILA	GAB	010E52 01S49	010E52 01S49	140	RC 100HA1A		ND	0000 2400	
50274	418.00		GRC	ATHINAI/ELEFSIS	GRC	023E33 38N04	023E33 38N04	46	RC 850HA2A		ND	0000 2400	
50261	418.00		IRL	ABBEYSHRULE	IRL	007W39 53N35	007W39 53N35	45	RC 2K14A2AAN		ND	0000 2400	
50909	418.00		KEN	NAROK	KEN	035E51 01S06	035E51 01S06	360	RC 2K04A2AAN		ND	0000 2400	
50851	418.00		MRC	ESSAOUIRA	MRC	009W46 31N38	009W46 31N38	100	RC 100HA1A		ND	0000 2400	
50577	418.00		POL	GRUDZIADZ	POL	018E45 53N28	018E45 53N28	50	RC 800HA2AAN		ND	0000 2400	
50746	418.00		ROU	FOCSANI	ROU	027E12 45N41	027E12 45N41	148	RC 2K14A2A		ND	0000 2400	
50040	418.00		S	BODEN	S	021E43 65N50	021E43 65N50	47	RC 1K00A2A		ND	0000 2400	
50043	418.00		S	GREBBESTAD	S	011E15 58N42	011E15 58N42	93	RC 100HA1A		ND	0000 2400	
50223	418.00		TCH	TATRY	TCH	020E05 49N05	020E05 49N05	90	RC 2K40A2A		ND	0000 2400	
50935	418.00		TGO	NIAMTOUGOU	TGO	001E03 09N42	001E03 09N42		RC 2K04A2AAN		ND	0000 2400	
50639	418.00		TUN	SFAX EL MAOU	TUN	010E41 34N43	010E41 34N43	60	RC 100HA1A		ND	0000 2400	
50815	418.00		TUR	BIGA	TUR	027E22 40N17	027E22 40N17	140	RC 2K10A2AAN		ND	0000 2400	
50389	418.00		URS	GOMEL	BLR	031E01 52N25	031E01 52N25	50	RC 2K10A2AAN		ND	0000 2400	
50126	418.00		URS	TALLIN	URS	024E47 59N27	024E47 59N27	50	RC 2K10A2AAN		ND	0000 2400	
50166	418.00		URS	VELIKIE LUKI	URS	030E12 56N22	030E12 56N22	150	RC 2K10A2AAN		ND	0000 2400	
50294	418.00		YUG	DRVENIK	YUG	016E09 43N27	016E09 43N27	50	RC 2K10A2A		ND	0000 2400	
50305	418.00		YUG	KRUSEVAC	YUG	021E20 43N36	021E20 43N36	90	RC 2K10A2A		ND	0000 2400	
50678	418.00		ZAI	KANIAMAIKAS	ZAI	024E03 07S42	024E03 07S42	95	RC 2K04A2A		ND	0000 2400	
50690	418.00		ZAI	KWILU-NGONGO	ZAI	014E42 05S30	014E42 05S30	95	RC 2K04A2A		ND	0500 1600	
50691	418.00		ZAI	LIKASI	ZAI	026E45 10S50	026E45 10S50	95	RC 2K04A2A		ND	0500 1600	
50702	418.00		ZAI	MONKOTO	ZAI	020E39 01S36	020E39 01S36	95	RC 2K04A2A		ND	0500 1600	
50698	418.00		ZAI	PWETO	ZAI	028E53 08S28	028E53 08S28	95	RC 2K04A2A		ND	0500 1600	
50713	419.00		AFS	LOUIS TRICHARDT	AFS	029E52 23S03	029E52 23S03	150	RC 2K10A2A		ND	0000 2400	
50500	419.00		ARS	FARZAN ISLAND	ARS	042E50 16N45	042E50 16N45	128	RC 1K02A2AAN		ND	0000 2400	
50999	419.00		CME	KOURCUI	CME	014E07 11N05	014E07 11N05	50	RC 100HA1A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
51005	419.00	CME	LOLO	CME	014E55	04N17	014E55	04N17	50	RC	100HA1A	ND	0000 2400
50433	419.00	D	BORKUM	D	006E43	53N36	006E43	53N36	47	RC	2K00A2A	ND	0000 2400
50434	419.00	D	WUNSTORF	D	009E27	52N28	009E27	52N28	47	RC	2K00A2A	ND	0000 2400
50226	419.00	DNK	HERNING	DNK	009E08	56N10	009E08	56N10	50	RC	800HA2A	ND	0000 2400
50760	419.00	F	BOURGES	F	002E23	47N04	002E23	47N04	46	RC	100HA1AAN	ND	0000 2400
50082	419.00	FNL	HAAPAVESI	FNL	025E30	64N05	025E30	64N05	90	RC	100HA1A	ND	0000 2400
50104	419.00	FNL	VUOTSO	FNL	027E07	68N05	027E07	68N05	90	RC	100HA1A	ND	0000 2400
50414	419.00	G	WITTERING	G	000W28	52N37	000W28	52N37	56	RC	850HA2A	ND	0000 2400
50922	419.00	GRC	LEROS	GRC	026E48	37N11	026E48	37N11	60	RC	850HA2A	ND	0000 2400
50767	419.00	HOL	MIDDELBURG	HOL	003E44	51N31	003E44	51N31	30	RC	2K14A2AAN	ND	0000 2400
50466	419.00	IRL	PLATFORM 3	IRL	011W00	53N00	011W00	53N00	45	RC	2K14A2AAN	ND	0000 2400
51058	419.00	KEN	KUWAIT INTL AEROPORT	KEN	047E59	29N23	047E59	29N53	150	RC	2K04A2A	ND	0000 2400
51093	419.00	LBY	WARE HOUSE 59A	LBY	019E56	28N18	019E56	28N18	100	RC	2K00A2A	ND	0000 2400
50842	419.00	MRC	BOUARFA	MRC	001W45	32N30	001W45	32N30	100	RC	2K04A2A	ND	0000 2400
50554	419.00	OMA	AYDIM	OMA	053E22	16N59	053E22	16N59	150	RC	1K20A2A	ND	0000 2400
50573	419.00	POL	CHRCYNNO	POL	020E50	52N30	020E50	52N30	45	RC	2K00A2AAN	ND	0000 2400
50582	419.00	POL	MOSTKOWO	POL	015E03	53N00	015E03	53N00	75	RC	800HA2AAN	ND	0000 2400
50268	419.00	POR	SINES	POR	008W48	37N06	008W48	37N06	50	RC	2K04A2AAN	ND	0000 2400
50035	419.00	S	ANDERSTORP	S	013E38	57N17	013E38	57N17	28	RC	1K00A2A	ND	0000 2400
50056	419.00	S	VAESTERAAS/HAESSLOE	S	016E36	59N31	016E36	59N31	28	RC	1K00A2A	ND	0000 2400
50632	419.00	TUN	TUNIS CARTHAGE AEROP	TUN	010E19	36N49	010E19	36N49	25	RC	100HA2A	ND	0000 2400
50571	419.00	UAE	MUBARRAZ ISL	UAE	053E13	24N17	053E13	24N17	100	RC	1K03A9X	ND	0000 2400
50186	419.00	URS	JITOMIR	UKR	028E20	50N16	028E20	50N16	150	RC	2K10A2AAN	ND	0000 2400
50183	419.00	URS	MELITOPOL	UKR	035E22	46N50	035E22	46N50	150	RC	2K10A2AAN	ND	0000 2400
50147	419.00	URS	KALININGRAD	URS	020E30	54N42	020E30	54N42	45	RC	2K10A2AAN	ND	0000 2400
50127	419.00	URS	LENINAKAN	URS	043E51	40N49	043E51	40N49	150	RC	2K10A2AAN	ND	0000 2400
50307	419.00	YUG	SKOPJE	YUG	021E42	41N44	021E42	41N44	30	RC	2K10A2A	ND	0000 2400
50710	420.00	AFS	JAN SMUTS	AFS	028E13	26S14	028E13	26S14	100	RC	1K20H2A	ND	0000 2400
50711	420.00	AFS	JAN SMUTS	AFS	028E13	26S14	028E13	26S14	100	RC	1K20H2A	ND	0000 2400
50954	420.00	ALG	BISKRA	ALG	005E44	34N48	005E44	34N48	100	RC	100HA1A	ND	0000 2400
50537	420.00	ALG	TLEMCEN	ALG	001W21	35N02	001W21	35N02	100	RC	100HA1A	ND	0000 2400
50493	420.00	ARS	AL JOUF AIRPORT	ARS	040E05	29N47	040E05	29N47	128	RC	1K02A2AAN	ND	0000 2400
50495	420.00	ARS	HOFUF	ARS	049E29	25N24	049E29	25N24	128	RC	1K02A2AAN	ND	0000 2400
50425	420.00	AUT	INNSBRUCK	AUT	011E24	47N14	011E24	47N14	75	RC	2K10A2A	ND	0000 2400
50481	420.00	BUL	PLOVDIV	BUL	024E41	42N04	024E41	42N04	30	RC	100HA1A	ND	0000 2400
50480	420.00	BUL	SILISTRA	BUL	027E16	44N07	027E16	44N07	50	RC	100HA1A	ND	0000 2400
50951	420.00	CME	EDEA	CME	010E08	03N47	010E08	03N47	100	RC	100HA1A	ND	0000 2400
51023	420.00	CME	MAKARI	CME	014E27	12N33	014E27	12N33	50	RC	100HA1A	ND	0000 2400
51003	420.00	CME	TIBATI	CME	012E37	06N27	012E37	06N27	50	RC	100HA1A	ND	0000 2400
50773	420.00	CTI	BOUAKE	CTI	004W58	07N42	004W58	07N42	200	RC	2K10A2A	ND	0000 2400

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50436	420.00	D		BAYREUTH	D	011E34 49N58	011E34 49N58	47	RC 2K00A2A		ND	0000 2400	
50435	420.00	D		BUECHEL	D	007E08 50N16	007E08 50N16	93	RC 2K00A2A		ND	0000 2400	
50455	420.00	D		ST MICHAELISDONN	D	009E09 53N59	009E09 53N59	47	RC 2K00A2A		ND	0000 2400	
50026	420.00	DDR		LEIPZIG	DDR	012E07 51N26	012E07 51N26	15	RC 2K10A2A		ND	0000 2400	
50237	420.00	E		SEVILLA	E	005W48 37N25	005W48 37N25	74	RC 2K10A2A		ND	0000 2400	
50344	420.00	F		AUCH	F	000E37 43N38	000E37 43N38	46	RC 100HA1AAN		ND	0000 2400	
50326	420.00	F		AUTUN	F	004E16 46N48	004E16 46N48	46	RC 100HA1AAN		ND	0000 2400	
50327	420.00	F		BELFORT FONTAINE	F	007E01 47N39	007E01 47N39	46	RC 100HA1AAN		ND	0000 2400	
50091	420.00	FNL		NUMMELA	FNL	024E18 60N20	024E18 60N20	30	RC 800HA2A		ND	0000 2400	
50102	420.00	FNL		TERVOLA	FNL	024E51 66N06	024E51 66N06	30	RC 800HA2A		ND	0000 2400	
50391	420.00	G		BELFAST HARBOUR	G	005W53 54N37	005W53 54N37	28	RC 850HA2A		ND	0000 2400	
50393	420.00	G		BLACKPOOL	G	002W59 53N46	002W59 53N46	28	RC 850HA2A		ND	0000 2400	
50416	420.00	G		OIL PLT AMOCO 49/27D	G	002E20 53N01	002E20 53N01	37	RC 850HA2A		ND	0000 2400	
50625	420.00	GAB		LASTOURVILLE	GAB	012E43 00S50	012E43 00S50	140	RC 100HA1A		ND	0000 2400	
50270	420.00	GRC		STEFANOVIKION	GRC	022E45 39N28	022E45 39N28	50	RC 850HA2A		ND	0000 2400	
50005	420.00	HNG		BUDAPEST FERIHEGY	HNG	019E18 47N24	019E18 47N24	40	RC 2K10A2AAN		ND	0000 2400	
50107	420.00	I		ALBENGA	I	008E13 44N03	008E13 44N03	90	RC 2K04A2A		ND	0000 2400	
50904	420.00	KEN		MARSABIT	KEN	037E59 02N21	037E59 02N21	100	RC 2K04A2AAN		ND	0000 2400	
50912	420.00	LBY		ZUARA	LBY	012E07 32N56	012E07 32N56	138	RC 2K00A2A		ND	0000 2400	
50476	420.00	MRC		BEN SLIMANE	MRC	007W07 34N00	007W07 34N00	100	RC 2K06A2A		ND	0000 2400	
50556	420.00	OMA		IBRI	OMA	056E30 23N14	056E30 23N14	150	RC 1K20A2A		ND	0000 2400	
50320	420.00	POR		PICO	AZR	028W27 38N33	028W27 38N33	50	RC 2K04A2AAN		ND	0000 2400	
50837	420.00	POR		ALVERCA	POR	009W02 38N54	009W02 38N54	65	RC 100HA1A		ND	0000 2400	
50751	420.00	ROU		SUCEAVA	ROU	026E22 47N42	026E22 47N42	46	RC 2K14A2A		ND	0000 2400	
50045	420.00	S		KARLSKOGA	S	014E29 59N19	014E29 59N19	28	RC 1K00A2A		ND	0000 2400	
50050	420.00	S		MALMOE/STURUP	S	013E24 55N28	013E24 55N28	28	RC 1K00A2A		ND	0000 2400	
50873	420.00	TCH		KUNOVICE	TCH	017E27 49N03	017E27 49N03	45	RC 2K10A2A		ND	0000 2400	
50813	420.00	TUR		ESKISEHIR	TUR	030E45 39N47	030E45 39N47	140	RC 2K10A2AAN		ND	0000 2400	
50128	420.00	URS		BAKU	URS	049E45 40N20	049E45 40N20	150	RC 2K10A2AAN		ND	0000 2400	
50177	420.00	URS		GROZNYI	URS	045E40 43N20	045E40 43N20	45	RC 2K10A2AAN		ND	0000 2400	
50131	420.00	URS		KRASNODAR	URS	038E39 45N02	038E39 45N02	150	RC 2K10A2AAN		ND	0000 2400	
50129	420.00	URS		VILNIUS	URS	025E18 54N40	025E18 54N40	150	RC 2K10A2AAN		ND	0000 2400	
50130	420.00	URS		YEREVAN	URS	044E36 40N14	044E36 40N14	50	RC 2K10A2AAN		ND	0000 2400	
50296	420.00	YUG		KARLOVCI	YUG	019E57 45N12	019E57 45N12	50	RC 2K10A2A		ND	0000 2400	
50798	420.00	YUG		PRISTINA	YUG	021E02 42N36	021E02 42N36	25	RC 2K10A2A		ND	0000 2400	
50799	420.00	YUG		PULA	YUG	013E52 44N54	013E52 44N54	25	RC 2K10A2A		ND	0000 2400	
50701	420.00	ZAI		MOBA	ZAI	029E44 07S06	029E44 07S06	95	RC 2K04A2A		ND	0500 1600	
50491	421.00	ARS		HALAIFA	ARS	039E16 26N26	039E16 26N26	128	RC 1K02A2AAN		ND	0000 2400	
51027	421.00	CME		BOURRAH	CME	013E28 10N11	013E28 10N11	50	RC 100HA1A		ND	0000 2400	
50437	421.00	D		OSNABR ATTERHEIDE	D	007E58 52N17	007E58 52N17	47	RC 2K00A2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50650	421.00	DDR		KOENIGSBERG	DDR	012E27	53N05	012E27	53N05	80	RC	2K10A2A	ND 0000 2400
50246	421.00	E		MADRID/GETAFE	E	003W51	40N12	003W51	40N12	56	RC	2K10A2A	ND 0000 2400
50342	421.00	F		VALENCE	F	004E58	44N55	004E58	44N55	93	RC	100HA1AAN	ND 0000 2400
50079	421.00	FNL		ALAVUS	FNL	023E35	62N33	023E35	62N33	90	RC	100HA1A	ND 0000 2400
50101	421.00	FNL		SUOMUSSALMI	FNL	028E43	64N49	028E43	64N49	90	RC	100HA1A	ND 0000 2400
50105	421.00	FNL		WREDEBY	FNL	026E45	60N40	026E45	60N40	30	RC	800HA2A	ND 0000 2400
50400	421.00	G		HENTON	G	000W47	51N46	000W47	51N46	56	RC	850HA2A	ND 0000 2400
50018	421.00	HNG		NAGYKORPAD	HNG	017E28	46N25	017E28	46N25	50	RC	900HA2AAN	ND 0000 2400
50768	421.00	HOL		HOEVEN	HOL	004E33	51N33	004E33	51N33	30	RC	2K14A2AAN	ND 0000 2400
50112	421.00	I		ROMA FIUMICINO	I	012E21	41N50	012E21	41N50	45	RC	2K04A2A	ND 0000 2400
50258	421.00	IRL		GALWAY	IRL	009W04	53N15	009W04	53N15	45	RC	2K14A2AAN	ND 0000 2400
50908	421.00	KEN		MOMBASA	KEN	039E36	04S02	039E36	04S02	360	RC	2K04A2AAN	ND 0000 2400
50279	421.00	MRC		DAKHLA	MRC	015W56	23N42	015W56	23N42	100	RC	2K10A2A	ND 0000 2400
50280	421.00	MRC		LAAYOUNE	MRC	013W13	27N10	013W13	27N10	100	RC	2K10A2A	ND 0000 2400
50590	421.00	POL		SLUPSK	POL	017E05	54N28	017E05	54N28	80	RC	2K00A2AAN	ND 0000 2400
50269	421.00	POR		VISEU	POR	007W53	40N43	007W53	40N43	50	RC	2K04A2AAN	ND 0000 2400
50041	421.00	S		BORLAENGE	S	015E25	60N28	015E25	60N28	28	RC	1K00A2A	ND 0000 2400
50044	421.00	S		HALMSTAD	S	012E49	56N40	012E49	56N40	28	RC	1K00A2A	ND 0000 2400
50047	421.00	S		LINKOEPING/SAAB	S	015E44	58N24	015E44	58N24	28	RC	1K00A2A	ND 0000 2400
50053	421.00	S		TRUNDOEN	S	021E47	65N23	021E47	65N23	28	RC	1K00A2A	ND 0000 2400
50212	421.00	TCH		HOSIN	TCH	014E29	49N02	014E29	49N02	45	RC	2K40A2A	ND 0000 2400
50672	421.00	TUR		ERHAC	TUR	038E08	38N30	038E08	38N30	140	RC	2K10A2AAN	ND 0000 2400
50187	421.00	URS		LVOV	UKR	024E00	49N50	024E00	49N50	150	RC	2K10A2AAN	ND 0000 2400
50188	421.00	URS		POLTAVA	UKR	034E36	49N36	034E36	49N36	150	RC	2K10A2AAN	ND 0000 2400
50804	421.00	YUG		SALI	YUG	015E10	43N56	015E10	43N56	60	RC	2K10A2A	ND 0000 2400
50800	421.00	YUG		VRSAC	YUG	021E35	45N15	021E35	45N15	25	RC	2K10A2A	ND 0000 2400
50931	422.00	ALG		BEJAIA	ALG	005E02	36N43	005E02	36N43	100	RC	100HA1A	ND 0000 2400
50499	422.00	ARS		KAMIS MUSHAYT	ARS	042E25	18N18	042E25	18N18	128	RC	1K02A2AAN	ND 0000 2400
50496	422.00	ARS		MAGALA	ARS	047E16	26N52	047E16	26N52	128	RC	1K02A2AAN	ND 0000 2400
51042	422.00	BEN		PARAKOU AEROPORT	BEN	002E38	09N20	002E38	09N20	50	RC	100HA1A	ND 0000 2400
50479	422.00	BUL		SLIVAN	BUL	026E12	42N35	026E12	42N35	50	RC	100HA1A	ND 0000 2400
50967	422.00	CME		AMBAM	CME	011E16	02N22	011E16	02N22	100	RC	100HA1A	ND 0000 2400
50985	422.00	CME		BERTOUA	CME	013E44	04N32	013E44	04N32	50	RC	2K10A2A	ND 0000 2400
51032	422.00	CME		NKAMBE	CME	010E40	06N12	010E40	06N12	100	RC	100HA1A	ND 0000 2400
50722	422.00	CPV		S. ANTAO	CPV	025W06	17N22	025W06	17N22	93	RC		ND 0000 2400
50784	422.00	CTI		ODIENNE	CTI	007W34	09N30	007W34	09N30	200	RC	2K10A2A	ND 0000 2400
50438	422.00	D		TANGO	D	009E16	48N37	009E16	48N37	93	RC	2K00A2A	ND 0000 2400
50463	422.00	ETH		ASSAB	ETH	042E45	13N01	042E45	13N01	200	RC	2K80J3E	ND 0000 2400
50331	422.00	F		COETQUIDAN	F	002W08	47N58	002W08	47N58	46	RC	100HA1AAN	ND 0000 2400
50381	422.00	F		CREIL	F	002E32	49N15	002E32	49N15	140	RC	100HA1AAN	ND 0000 2400

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50833	422.00	G		KNIGHTON	G	003W14 52N31	003W14 52N31	93	RC 850HA2A		ND	0000 2400	
51063	422.00	GHA		KUMASI	GHA	001W37 06N43	001W37 06N43	250	RC 2K04A2A		ND	0000 2400	
50926	422.00	GRC		ASTIPALEA	GRC	026E21 36N32	026E21 36N32	60	RC 850HA2A		ND	0000 2400	
50275	422.00	GRC		ATHINAI	GRC	023E46 37N49	023E46 37N49	46	RC 850HA2A		ND	0000 2400	
50006	422.00	HNG		SZOLNOK	HNG	020E11 47N08	020E11 47N08	50	RC 900HA2AAN		ND	0000 2400	
50118	422.00	HOL		OILRIG	HOL	004E20 53N25	004E20 53N25	50	RC 2K14A2AAN		ND	0000 2400	
50546	422.00	MDG		MANDABE	MDG	044E57 21S02	044E57 21S02	90	RC 100HA1AAN		ND	0300 1500	
50550	422.00	MDG		TAMBOHORANO	MDG	043E58 17S29	043E56 17S20	90	RC 100HA1AAN		ND	0300 1500	
50841	422.00	MRC		HOCEIMA	MRC	003W58 35N10	003W58 35N10	100	RC 100HA1A		ND	0000 2400	
50856	422.00	MRC		TATA	MRC	007W50 29N30	007W50 29N30	300	RC 2K04A2A		ND	0000 2400	
50726	422.00	ROU		BACAU	ROU	026E54 46N31	026E54 46N31	46	RC 2K14A2A		ND	0000 2400	
50759	422.00	ROU		TULCEA	ROU	028E43 45N04	028E43 45N04	28	RC 2K14A2A		ND	0000 2400	
50033	422.00	SUI		SION	SUI	007E20 46N13	007E20 46N13	46	RC 2K00A2A		ND	0000 2400	
50213	422.00	TCH		JAROMER	TCH	015E56 50N19	015E56 50N19	90	RC 2K40A2A		ND	0000 2400	
50643	422.00	TUN		PLATE FORME ASTHART	TUN	011E17 36N17	011E17 36N17	170	RC 100HA2A		ND	0000 2400	
50808	422.00	TUR		CANAKKALE	TUR	026E25 40N10	026E25 40N10	50	RC 2K10A2AAN		ND	0000 2400	
50132	422.00	URS		ARKHANGHELSK	URS	040E12 64N33	040E12 64N33	150	RC 2K10A2AAN		ND	0000 2400	
50150	422.00	URS		KUTAISI	URS	042E42 42N16	042E42 42N16	150	RC 2K10A2AAN		ND	0000 2400	
50133	422.00	URS		MONTCHEGORSK	URS	032E57 67N59	032E57 67N59	150	RC 2K10A2AAN		ND	0000 2400	
50173	422.00	URS		PSKOV	URS	028E00 57N43	028E00 57N43	150	RC 2K10A2AAN		ND	0000 2400	
50317	422.00	YUG		OSIJEK	YUG	018E59 45N25	018E59 45N25	50	RC 2K10A2A		ND	0000 2400	
50316	422.00	YUG		SLOVENJGRADEC	YUG	015E05 46N30	015E05 46N30	25	RC 2K10A2A		ND	0000 2400	
51078	423.00	AGL		DONDO	AGL	014E28 09S41	014E28 09S41	92	RC 2K04A2AAN		ND	0000 2400	
50939	423.00	ALG		ADRAR	ALG	000W14 27N46	000W14 27N46	100	RC 100HA1A		ND	0000 2400	
50943	423.00	ALG		BECHAR	ALG	002W14 31N38	002W14 31N38	100	RC 100HA1A		ND	0000 2400	
50535	423.00	ALG		HASSI MESSAOUD	ALG	006E08 31N39	006E08 31N39	300	RC 100HA1A		ND	0000 2400	
51022	423.00	ALG		MASCARA	ALG	000E11 35N13	000E11 35N13	100	RC 100HA1A		ND	0000 2400	
50477	423.00	BUL		BARNA	BUL	027E52 43N13	027E52 43N13	50	RC 100HA1A		ND	0000 2400	
50459	423.00	D		BRILON	D	008E35 51N25	008E35 51N25	47	RC 2K00A2A		ND	0000 2400	
50439	423.00	D		EMDEN	D	007E14 53N24	007E14 53N24	47	RC 2K00A2A		ND	0000 2400	
50647	423.00	DDR		COTTBUS	DDR	013E32 52N22	013E32 52N22	48	RC 2K10A2A		ND	0000 2400	
50654	423.00	DDR		ZWICKAU	DDR	012E30 50N43	012E30 50N43	40	RC 2K10A2A		ND	0000 2400	
50230	423.00	DNK		ODENSE	DNK	010E13 55N26	010E13 55N26	50	RC 800HA2A		ND	0000 2400	
50242	423.00	E		SALAMANCA	E	005W38 40N56	005W38 40N56	74	RC 2K10A2A		ND	0000 2400	
50239	423.00	E		SEVILLA	E	006W19 36N39	006W19 36N39	74	RC 2K10A2A		ND	0000 2400	
50348	423.00	F		BOURG	F	005E18 46N12	005E18 46N12	46	RC 100HA1AAN		ND	0000 2400	
50337	423.00	F		S MANDRIER	F	005E57 43N04	005E57 43N04	93	RC 100HA1AAN		ND	0000 2400	
50358	423.00	F		TOULOUSE MERVILLA	F	001E29 43N30	001E29 43N30	46	RC 800HA2AAN		ND	0000 2400	
50080	423.00	FNL		EURA	FNL	022E12 61N07	022E12 61N07	90	RC 100HA1A		ND	0000 2400	
50106	423.00	FNL		YLIVIESKA	FNL	024E44 64N03	024E44 64N03	90	RC 100HA1A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50834	423.00		G	COTTESMORE	G	000W59 52N44	000W59 52N44	37	RC 850HA2A		ND	0000 2400	
50401	423.00		G	HETHEL	G	001E11 52N34	001E11 52N34	19	RC 850HA2A		ND	0000 2400	
50412	423.00		G	WALNEY ISLAND	G	003W16 54N08	003W16 54N08	28	RC 850HA2A		ND	0000 2400	
50109	423.00		I	FORLI	I	011E55 44N15	011E55 44N15	45	RC 2K04A2A		ND	0000 2400	
50903	423.00		KEN	NAIROBI	KEN	036E54 01S20	036E54 01S20	100	RC 2K04A2AAN		ND	0000 2400	
51085	423.00		LBY	GHAT	LBY	010E01 25N11	010E01 25N11	250	RC 2K00A2A		ND	0000 2400	
50576	423.00		POL	ELBLAG	POL	019E25 54N08	019E25 54N08	80	RC 2K00A2AAN		ND	0000 2400	
50579	423.00		POL	KRAKOW	POL	020E12 50N05	020E12 50N05	75	RC 2K00A2AAN		ND	0000 2400	
50057	423.00		POR	TANCOS	POR	008W16 39N29	008W16 39N29	65	RC 2K04A2B		ND	0000 2400	
50733	423.00		ROU	BUCURESTI/OTOPENI	ROU	025E59 44N33	025E59 44N33	46	RC 2K14A2A		ND	0000 2400	
50032	423.00		SUI	SAMEDAN	SUI	009E53 46N32	009E53 46N32	46	RC 2K00A2A		ND	0000 2400	
50286	423.00		URS	VITEBSK	BLR	030E11 55N13	030E11 55N13	50	RC 2K10A2AAN		ND	0000 2400	
50189	423.00		URS	PERVOMAISK	UKR	030E13 50N27	030E13 50N27	150	RC 2K10A2AAN		ND	0000 2400	
50202	423.00		URS	TCHISTIAKOVO	UKR	038E16 48N03	038E16 48N03	150	RC 2K10A2AAN		ND	0000 2400	
50802	423.00		YUG	ZITORADJE	YUG	021E44 43N11	021E44 43N11	50	RC 2K10A2A		ND	0000 2400	
51077	424.00		AGL	GAGO COUTINHO	AGL	021E26 14S06	021E26 14S06	03	RC 2K04A2AAN		ND	0000 2400	
51075	424.00		AGL	JAMBA	AGL	016E02 14S42	016E02 14S42	92	RC 2K04A2AAN		ND	0000 2400	
50618	424.00		BEL	BRUXELLES-GRINBERGEN	BEL	004E23 50N57	004E23 50N57	46	RC 2K10A2A		ND	0000 2400	
51048	424.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	002E25 06N23	100	RC 100HA1A		ND	0000 2400	
51047	424.00		BEN	NATITINGOU AEROPORT	BEN	001E35 09N47	001E35 09N47	100	RC 100HA1A		ND	0000 2400	
51035	424.00		CME	ABONG MBANG	CME	013E12 04N00	013E12 04N00	50	RC 100HA1A		ND	0000 2400	
50774	424.00		CTI	BOUAKE	CTI	004W58 07N42	004W58 07N42	200	RC 2K10A2A		ND	0000 2400	
50860	424.00		D	BONAMES	D	008E40 50N11	008E40 50N11	28	RC 2K00A2A		ND	0000 2400	
50243	424.00		E	REUS	E	001E09 41N09	001E09 41N09	93	RC 2K10A2A		ND	0000 2400	
50349	424.00		F	PHALSBOURG	F	007E12 48N46	007E12 48N46	46	RC 100HA1AAN		ND	0000 2400	
50336	424.00		F	S FLOUR	F	003E00 45N05	003E00 45N05	46	RC 100HA1AAN		ND	0000 2400	
50094	424.00		FNL	PELLO	FNL	023E58 66N46	023E58 66N46	90	RC 100HA1A		ND	0000 2400	
50096	424.00		FNL	RANTASALMI	FNL	028E22 62N04	028E22 62N04	90	RC 100HA1A		ND	0000 2400	
50276	424.00		GRC	AGRINION	GRC	021E21 38N36	021E21 38N36	150	RC 850HA2A		ND	0000 2400	
50921	424.00		HNG	GYOR	HNG	017E44 47N40	017E44 47N40	100	RC 2K10A2AAN		ND	0000 2400	
50113	424.00		I	RONCHI LEGIONARI	I	013E22 45N50	013E22 45N50	45	RC 2K04A2A		ND	0000 2400	
50467	424.00		IRL	PLATFORM 4	IRL	011W00 53N00	011W00 53N00	45	RC 2K14A2AAN		ND	0000 2400	
51083	424.00		LBY	AL SARIR	LBY	022E30 27N39	022E30 27N39	300	RC 2K00A2A		ND	0000 2400	
51088	424.00		LBY	TRIPOLI	LBY	013E07 32N00	013E07 32N00	100	RC 2K00A2A		ND	0000 2400	
50854	424.00		MRC	KHOURIBGA	MRC	006W52 32N45	006W52 32N45	100	RC 2K04A2A		ND	0000 2400	
50557	424.00		OMA	SALIYA	OMA	053E25 17N53	053E25 17N53	150	RC 1K20A2A		ND	0000 2400	
50321	424.00		POR	S JORGE	AZR	028W10 38N40	028W10 38N40	50	RC 2K04A2AAN		ND	0000 2400	
50029	424.00		SUI	LES EPLATURES	SUI	006E48 47N05	006E48 47N05	46	RC 2K00A2A		ND	0000 2400	
50885	424.00		TCH	PRAHA/NORTH	TCH	014E18 50N07	014E18 50N07	45	RC 2K10A2A		ND	0000 2400	
50190	424.00		URS	ODESSA	UKR	030E44 46N28	030E44 46N28	150	RC 2K10A2AAN		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50167	424.00		URS	LENINAKAN	URS	043E51 40N49	043E51 40N49	50	RC 2K10A2AAN		ND	0000 2400	
50134	424.00		URS	TUAPSE	URS	039E05 44N06	039E05 44N06	150	RC 2K10A2AAN		ND	0000 2400	
50315	424.00		YUG	VRLIKA	YUG	016E26 43N56	016E26 43N56	50	RC 2K10A2A		ND	0000 2400	
50314	424.00		YUG	ZAGREB	YUG	015E51 45N36	015E51 45N36	25	RC 2K10A2A		ND	0000 2400	
50679	424.00		ZAI	DILOLO	ZAI	022E21 10S43	022E21 10S43	95	2K04A2A		ND	0500 1600	
50703	424.00		ZAI	YUKI	ZAI	019E25 04S50	019E25 04S50	95	RC 2K04A2A		ND	0500 1600	
50712	425.00		AFS	LOUIS TRICHARDT	AFS	029E52 23S03	029E52 23S03	150	RC 2K10A2A		ND	0000 2400	
50716	425.00		AFS	VEREENIGING	AFS	027E57 26S32	027E57 26S32	50	RC 2K10A2A		ND	0000 2400	
50427	425.00		ALB	RINAS	ALB	019E43 41N25	019E43 41N25	80	RC 2K10A2AAN		ND	0000 2400	
50940	425.00		ALG	BATNA	ALG	006E09 35N32	006E09 35N32	100	RC 100HA1A		ND	0000 2400	
50485	425.00		BUL	BOURGAS	BUL	027E30 42N33	027E30 42N33	30	RC 100HA1A		ND	0000 2400	
50488	425.00		BUL	PLEVEN	BUL	024E35 43N24	024E35 43N24	30	RC 100HA1A		ND	0000 2400	
50947	425.00		CME	BAGANTE	CME	010E33 05N07	010E33 05N07	50	RC 100HA1A		ND	0000 2400	
51015	425.00		CME	MADINGRIN	CME	014E55 08N25	014E55 08N25	180	RC 100HA1A		ND	0000 2400	
50441	425.00		D	IGELSBACH	D	010E52 49N09	010E52 49N09	28	RC 2K00A2A		ND	0000 2400	
50440	425.00		D	MUENSTER TELGTE	D	007E46 51N57	007E46 51N57	47	RC 2K00A2A		ND	0000 2400	
50021	425.00		DDR	LEIPZIG	DDR	012E16 51N25	012E16 51N25	20	RC 2K10A2A		ND	0000 2400	
50022	425.00		DDR	LEIPZIG	DDR	012E12 51N25	012E12 51N25	20	RC 2K10A2A		ND	0000 2400	
50235	425.00		E	TENERIFE NORTE	CNR	016W15 28N27	016W15 28N27	46	RC 2K10A2A		ND	0000 2400	
50369	425.00		F	SUIPPES	F	004E38 49N13	004E38 49N13	46	RC 100HA1A		ND	0000 2400	
50092	425.00		FNL	ORITKARI	FNL	025E28 64N59	025E28 64N59	30	RC 800HA2A		ND	0000 2400	
50836	425.00		G	FAIR OAKS	G	000W33 51N21	000W33 51N21	37	RC 850HA2A		ND	0000 2400	
50415	425.00		G	OIL PLT AMOCO 49/27A	G	002E19 53N02	002E19 53N02	37	RC 850HA2A		ND	0000 2400	
51062	425.00		GHA	ADA	GHA	000E32 05N52	000E32 05N52	25	RC 2K04A2A		ND	0000 2400	
50765	425.00		HOL	HILVERSUM	HOL	005E09 52N12	005E09 52N12	30	RC 2K14A2AAN		ND	0000 2400	
50111	425.00		I	PIACENZA	I	009E43 44N55	009E43 44N55	90	RC 2K04A2A		ND	0000 2400	
50262	425.00		IRL	KNOCK	IRL	008W27 53N57	008W27 53N57	45	RC 2K14A2AAN		ND	0000 2400	
50907	425.00		KEN	LODWAR	KEN	035E37 03N07	035E37 03N07	360	RC 2K04A2AAN		ND	0000 2400	
51089	425.00		LBY	SABNA	LBY	014E28 27N01	014E28 27N01	300	RC 2K00A2A		ND	0000 2400	
50281	425.00		MRC	TAN TAN	MRC	011W07 28N35	011W07 28N37	100	RC 2K10A2A		ND	0000 2400	
50575	425.00		POL	CZERWIENSK	POL	015E25 52N02	015E25 52N02	60	RC 800HA2AAN		ND	0000 2400	
50587	425.00		POL	RADOM	POL	021E06 51N30	021E06 51N30	55	RC 800HA2AAN		ND	0000 2400	
50263	425.00		POR	BRAGA	POR	008W27 41N35	008W27 41N35	50	RC 2K04A2AAN		ND	0000 2400	
50265	425.00		POR	EVORA	POR	007W53 38N31	007W53 38N31	50	RC 2K04A2AAN		ND	0000 2400	
50051	425.00		S	ORUST	S	011E34 58N13	011E34 58N13	56	RC 1K00A2A		ND	0000 2400	
50054	425.00		S	UMEAA	S	020E11 63N51	020E11 63N51	28	RC 1K00A2A		ND	0000 2400	
50216	425.00		TCH	KOSICE	TCH	021E13 48N36	021E13 48N36	90	RC 2K10A2A		ND	0000 2400	
50630	425.00		TUN	GABES AEROPHARE	TUN	010E06 33N53	010E06 33N53	60	RC 100HA1A		ND	0000 2400	
50814	425.00		TUR	ANKARA/CUBUK	TUR	033E06 40N14	033E06 40N14	140	RC 2K10A2AAN		ND	0000 2400	
50182	425.00		URS	PII	UKR	031E08 49N52	031E08 49N52	150	RC 2K10A2AAN		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50181	425.00	URS		SIMFEROPOL	UKR	034E06 44N56	034E06 44N56	50	RC 2K10A2AAN		ND	0000 2400	
50135	425.00	URS		ASTRAKHAN	URS	048E00 46N22	048E00 46N22	150	RC 2K10A2AAN		ND	0000 2400	
50142	425.00	URS		KAUNAS	URS	024E00 54N55	024E00 54N55	150	RC 2K10A2AAN		ND	0000 2400	
50137	425.00	URS		TALLIN	URS	024E47 59N27	024E47 59N27	150	RC 2K10A2AAN		ND	0000 2400	
50136	425.00	URS		VELIKIE LUKI	URS	030E12 56N22	030E12 56N22	50	RC 2K10A2AAN		ND	0000 2400	
50311	425.00	YUG		CACAK	YUG	020E10 43N53	020E10 43N53	50	RC 2K10A2A		ND	0000 2400	
50683	425.00	ZAI		BENI	ZAI	029E28 00N35	029E28 00N35	95	RC 2K04A2A		ND	0500 1600	
50660	425.00	ZAI		LUENA	ZAI	025E45 09S28	025E45 09S28	95	RC 2K04A2A		ND	0500 1600	
50971	426.00	ALG		HASSI MESSAOUD	ALG	006E08 31N39	006E08 31N39	100	RC 100HA1A		ND	0000 2400	
50422	426.00	AUT		GLEICHENBERG	AUT	015E48 46N53	015E48 46N53	75	RC 2K10A2A		ND	0000 2400	
51044	426.00	BEN		COTONOU AEROPORT	BEN	002E25 06N23	002E25 06N23	100	RC 100HA1A		ND	0000 2400	
51045	426.00	BEN		NATITINGOU AEROPORT	BEN	001E35 09N47	001E35 09N47	100	RC 2K00A2A		ND	0000 2400	
51014	426.00	CME		YOKADOUMA	CME	015E11 03N25	015E11 03N25	150	RC 100HA1A		ND	0000 2400	
50460	426.00	D		AACHEN-MERZBRUCK	D	006E11 50N50	006E11 50N50	47	RC 2K00A2A		ND	0000 2400	
50255	426.00	E		TORREJON	E	003W22 40N24	003W22 40N24	150	RC 2K04A2A		ND	0000 2400	
50669	426.00	EGY		EL DABAA	EGY	028E27 31N02	028E27 31N02	370	RC 2K04A2AAN		ND	0000 2400	
50761	426.00	F		CASTETS	F	001W09 43N55	001W09 43N55	46	RC 100HA1AAN		ND	0000 2400	
50366	426.00	F		GRENOBLE	F	005E52 45N13	005E52 45N13	46	RC 100HA1A		ND	0000 2400	
50088	426.00	FNL		KUHMO	FNL	029E27 64N07	029E27 64N07	90	RC 100HA1A		ND	0000 2400	
50392	426.00	G		BEMBRIDGE	G	001W07 50N41	001W07 50N41	28	RC 850HA2A		ND	0000 2400	
50404	426.00	G		LONGSIDE	G	001W52 57N31	001W52 57N31	37	RC 850HA2A		ND	0000 2400	
50405	426.00	G		MILDENHALL	G	000E29 52N22	000E29 52N22	37	RC 850HA2A		ND	0000 2400	
50408	426.00	G		PRESTWICK	G	004W41 55N33	004W41 55N33	28	RC 850HA2A		ND	0000 2400	
50420	426.00	G		PUMP STATION 1	G	001E37 55N54	001E37 55N54	37	RC 850HA2A		ND	0000 2400	
50410	426.00	G		SHOBDON	G	002W53 52N14	002W53 52N14	19	RC 850HA2A		ND	0000 2400	
51067	426.00	GHA		ACCRA	GHA	000W10 05N37	000W10 05N37	25	RC 2K04A2A		ND	0000 2400	
50114	426.00	I		SORRENTO	I	014E20 40N35	014E20 40N35	180	RC 2K04A2A		ND	0000 2400	
50468	426.00	IRL		PLATFORM 5	IRL	011W00 53N00	011W00 53N00	45	RC 2K14A2AAN		ND	0000 2400	
50548	426.00	MDG		AMBATOMAINTY	MDG	045E40 17S42	045E40 17S42	90	RC 100HA1AAN		ND	0300 1500	
50845	426.00	MRC		SAFI	MRC	009W14 32N18	009W14 32N18	100	RC 100HA1A		ND	0000 2400	
50284	426.00	MRC		TOUAHAR	MRC	004W10 34N12	004W10 34N12	100	RC 2K06A2A		ND	0000 2400	
50555	426.00	OMA		ADAM	OMA	057E33 22N22	057E33 22N22	150	RC 1K20A2A		ND	0000 2400	
50589	426.00	POL		RYBNIK	POL	018E38 50N04	018E38 50N04	45	RC 2K00A2AAN		ND	0000 2400	
50264	426.00	POR		COIMBRA	POR	008W28 40N09	008W28 40N09	50	RC 2K04A2AAN		ND	0000 2400	
50266	426.00	POR		PORTIMAO	POR	008W35 37N09	008W35 37N09	50	RC 2K04A2AAN		ND	0000 2400	
50724	426.00	ROU		BACAU	ROU	026E54 46N31	026E54 46N31	225	RC 2K14A2A		ND	0000 2400	
50039	426.00	S		BERGA	S	018E07 59N04	018E07 59N04	47	RC 1K00A2A		ND	0000 2400	
50215	426.00	TCH		KOLIN	TCH	015E11 50N01	015E11 50N01	45	RC 2K40A2A		ND	0000 2400	
50874	426.00	TCH		LUCENEC	TCH	019E49 45N18	019E49 45N18	45	RC 2K10A2A		ND	0000 2400	
50633	426.00	TUN		BIZERTE	TUN	009E48 37N15	009E48 37N15	50	RC 100HA2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50192	426.00	URS		ZAPOROJIE	UKR	034E19 48N31	034E19 48N31	150	RC 2K10A2AAN		ND	0000 2400	
50138	426.00	URS		GELENDJIK	URS	038E03 44N33	038E03 44N33	150	RC 2K10A2AAN		ND	0000 2400	
50139	426.00	URS		KUTAISI	URS	042E42 42N16	042E42 42N16	150	RC 2K10A2AAN		ND	0000 2400	
50140	426.00	URS		NOVGOROD	URS	031E18 58N32	031E18 58N32	150	RC 2K10A2AAN		ND	0000 2400	
50170	426.00	URS		NUKHA	URS	047E10 41N12	047E10 41N12	45	RC 2K10A2AAN		ND	0000 2400	
50178	426.00	URS		PETROZAVODSK	URS	034E04 61N47	034E04 61N47	50	RC 2K10A2AAN		ND	0000 2400	
50442	426.50	D		MIKE	D	011E36 48N34	011E36 48N34	47	RC 2K00A2A		ND	0000 2400	
51074	427.00	AGL		LUANDA	AGL	013E18 08S47	013E18 08S47	462	RC 2K04A2AAN		ND	0000 2400	
50533	427.00	ALG		BOU SAADA	ALG	004E12 35N20	004E12 35N20	100	RC 100HA1A		ND	0000 2400	
51010	427.00	ALG		TEBESSA	ALG	008E03 35N27	008E03 35N27	100	RC 100HA1A		ND	0000 2400	
50527	427.00	ALG		TINDOUF	ALG	008W10 27N42	008W10 27N42	200	RC 100HA1A		ND	0000 2400	
50486	427.00	BUL		BOURGAS	BUL	027E30 42N33	027E30 42N33	30	RC 100HA1A		ND	0000 2400	
51012	427.00	CME		EBOLOWA	CME	011E11 02N51	011E11 02N51	180	RC 100HA1A		ND	0000 2400	
50444	427.00	D		ALLENDORF-EDER	D	008E41 51N02	008E41 51N02	47	RC 2K00A2A		ND	0000 2400	
50443	427.00	D		BRAUNSCHWEIG	D	010E36 52N19	010E36 52N19	38	RC 2K00A2A		ND	0000 2400	
50649	427.00	DDR		WORMLAGE	DDR	013E54 51N37	013E54 51N37	78	RC 2K10A2A		ND	0000 2400	
50228	427.00	DNK		KASTRUP	DNK	012E41 55N36	012E41 55N36	50	RC 800HA2A		ND	0000 2400	
50249	427.00	E		FUERTEVENTURA	CNR	013W52 28N27	013W52 28N27	111	RC 2K10A2A		ND	0000 2400	
50354	427.00	F		AUBENAS RUOMS	F	004E22 44N27	004E22 44N27	46	RC 100HA1AAN		ND	0000 2400	
50350	427.00	F		BROYES LES PESMES	F	005E32 47N20	005E32 47N20	93	RC 100HA1AAN		ND	0000 2400	
50341	427.00	F		FLERS	F	000W36 48N45	000W36 48N45	46	RC 100HA1AAN		ND	0000 2400	
50362	427.00	F		ROYAN	F	000W58 45N38	000W58 45N38	46	RC 100HA1AAN		ND	0000 2400	
50351	427.00	F		S SIMON	F	003E12 49N45	003E12 49N45	93	RC 100HA1AAN		ND	0000 2400	
50343	427.00	F		TARBES RICAUD	F	000E17 43N09	000E17 43N09	46	RC 100HA1AAN		ND	0000 2400	
50087	427.00	FNL		KEMIJARVI	FNL	027E10 66N43	027E10 66N43	90	RC 100HA1A		ND	0000 2400	
50396	427.00	G		BRAWDY	G	005W07 51N53	005W07 51N53	47	RC 850HA2A		ND	0000 2400	
50824	427.00	G		PLATFORM DP4	G	003W34 53N53	003W34 53N53	37	RC 850HA2A		ND	0000 2400	
50272	427.00	GRC		KERKIRA	GRC	019E55 39N35	019E55 39N35	46	RC 850HA2A		ND	0000 2400	
50770	427.00	HOL		TEXEL	HOL	004E50 53N07	004E50 53N07	30	RC 2K14A2AAN		ND	0000 2400	
50108	427.00	I		FERRARA	I	011E37 44N49	011E37 44N49	90	RC 2K04A2A		ND	0000 2400	
50260	427.00	IRL		DUNDALK	IRL	006W25 54N00	006W25 54N00	45	RC 2K14A2AAN		ND	0000 2400	
50542	427.00	MDG		MANANARA	MDG	049E46 16S10	049E46 16S10	90	RC 100HA1AAN		ND	0300 1500	
50552	427.00	MDG		MANJA	MDG	044E19 21S25	044E19 21S25	90	RC 100HA1AAN		ND	0300 1500	
50574	427.00	POL		CIECHANOW	POL	020E38 52N51	020E38 52N51	75	RC 2K00A2AAN		ND	0000 2400	
50049	427.00	S		LUNDE	S	017E50 62N53	017E50 62N53	47	RC 1K00A2A		ND	0000 2400	
50287	427.00	URS		MOGILEV	BLR	030E17 53N55	030E17 53N55	150	RC 2K10A2AAN		ND	0000 2400	
50141	427.00	URS		EISK	URS	038E16 46N40	038E16 46N40	150	RC 2K10A2AAN		ND	0000 2400	
50295	427.00	YUG		SKOPJE	YUG	021E30 41N55	021E30 41N55	25	RC 2K10A2A		ND	0000 2400	
50686	427.00	ZAI		ILEBO	ZAI	020E36 04S19	020E36 04S19	95	RC 2K04A2A		ND	0500 1600	
50949	428.00	ALG		ORAN ES SENIA	ALG	000W35 35N39	000W35 35N39	100	RC 100HA1A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50953	428.00	CME		BANYO	CME	011E50	06N44	011E50	06N44	100	RC	100HA1A	ND 0000 2400
50782	428.00	CTI		MAN	CTI	007W32	07N23	007W32	07N23	200	RC	2K10A2A	ND 0000 2400
51097	428.00	CYP		NICOSIA	CYP	033E33	34N49	033E33	34N49	30	RC	2K10A2A	ND 0000 2400
50447	428.00	D		SEMBACH	D	008E03	49N34	008E03	49N34	47	RC	2K00A2A	ND 0000 2400
50446	428.00	D		STEUTZEN	D	012E03	49N40	012E03	49N40	47	RC	2K00A2A	ND 0000 2400
50445	428.00	D		WITTMUNDHAVEN	D	007E48	53N34	007E48	53N34	93	RC	2K00A2A	ND 0000 2400
50238	428.00	E		SEVILLA/MORON	E	005W34	37N18	005W34	37N18	74	RC	2K10A2A	ND 0000 2400
50236	428.00	E		SORIA	E	002W28	41N49	002W28	41N49	46	RC	2K10A2A	ND 0000 2400
50355	428.00	F		CHATEAUROUX	F	001E48	46N56	001E48	46N56	93	RC	800HA2AAN	ND 0000 2400
50335	428.00	F		LANVEOC	F	004W24	48N16	004W24	48N16	93	RC	100HA1AAN	ND 0000 2400
50085	428.00	FNL		IISALMI	FNL	027E08	63N38	027E08	63N38	90	RC	100HA1A	ND 0000 2400
50089	428.00	FNL		KUMLINGE	FNL	020E48	60N15	020E48	60N15	90	RC	100HA1A	ND 0000 2400
50820	428.00	G		PLATFORM MESA	G	003W05	58N07	003W05	58N07	37	RC	850HA2A	ND 0000 2400
50409	428.00	G		SAINT ABBS	G	002W12	55N56	002W12	55N56	75	RC	850HA2A	ND 0000 2400
50413	428.00	G		WESTCOTT	G	000W58	51N51	000W58	51N51	56	RC	850HA2A	ND 0000 2400
51068	428.00	GHA		ACCRA	GHA	000W54	05N34	000W54	05N34	25	RC	2K04A2A	ND 0000 2400
50007	428.00	HNG		PECS	HNG	018E15	45N58	018E15	45N58	100	RC	900HA2AAN	ND 0600 2000
50763	428.00	HOL		BUDEL	HOL	005E30	51N15	005E30	51N15	30	RC	2K14A2AAN	ND 0000 2400
50257	428.00	IRL		CORK	IRL	008W30	51N50	008W30	51N50	45	RC	2K14A2AAN	ND 0000 2400
50905	428.00	KEN		MANDERA	KEN	045E03	01N50	045E03	01N50	360	RC	2K04A2AAN	ND 0000 2400
50902	428.00	KEN		NAIROBI	KEN	036E52	01S16	036E52	01S16	360	RC	2K04A2AAN	ND 0000 2400
50545	428.00	MDG		ANTSALOVA	MDG	044E37	18S42	044E37	18S42	90	RC	100HA1AAN	ND 0300 1500
50661	428.00	MLT		LUCA	MLT	014E10	35N05	014E10	35N05	300	RC	1K00N0N	ND 0000 2400
50849	428.00	MRC		AZILAL	MRC	006W35	31N50	006W35	31N50	100	RC	2K04A2A	ND 0000 2400
50750	428.00	ROU		SATU MARE	ROU	022E53	47N41	022E53	47N41	28	RC	2K14A2A	ND 0000 2400
50052	428.00	S		SAATENAES	S	012E43	58N23	012E43	58N23	47	RC	1K00A2A	ND 0000 2400
50891	428.00	TCH		SLIAC	TCH	019E08	48N37	019E08	48N37	45	RC	2K10A2A	ND 0000 2400
50932	428.00	TGO		SANSANNE MANGO	TGO	029E00	10N22	029E00	10N22	90	RC	2K04A2AAN	ND 0020 2400
50193	428.00	URS		IVANOFRANKOVSK	UKR	024E42	48N56	024E42	48N56	50	RC	2K10A2AAN	ND 0000 2400
50164	428.00	URS		MAKHATCHKALA	URS	047E31	42N59	047E31	42N59	150	RC	2K10A2AAN	ND 0000 2400
50143	428.00	URS		MURMANSK	URS	032E46	68N58	032E46	68N58	50	RC	2K10A2AAN	ND 0000 2400
50161	428.00	URS		VYBORG	URS	028E46	60N42	028E46	60N42	45	RC	2K10A2AAN	ND 0000 2400
50302	428.00	YUG		DOMANOVICI	YUG	017E51	43N08	017E51	43N08	15	RC	2K10A2A	ND 0000 2400
50521	429.00	ALG		EL GOLEA	ALG	002E52	30N35	002E52	30N35	300	RC	100HA1A	ND 0000 2400
50519	429.00	ALG		IN GUEZZAN	ALG	005E46	19N34	005E46	19N34	300	RC	100HA1A	ND 0000 2400
50503	429.00	ALG		SETIF	ALG	005E25	36N36	005E25	36N36	100	RC	100HA1A	ND 0000 2400
51050	429.00	BEN		SAVE AEROPORT	BEN	002E31	08N47	002E31	08N47	100	RC	2K00A2A	ND 0000 2400
51017	429.00	CME		WAZA	CME	014E32	11N21	014E32	11N21	50	RC	100HA1A	ND 0000 2400
50456	429.00	D		GIEBELSTADT	D	009E59	49N39	009E59	49N39	28	RC	2K00A2A	ND 0000 2400
50448	429.00	D		OBERPFAFFENHOFEN	D	011E17	48N05	011E17	48N05	47	RC	2K00A2A	ND 0000 2400

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50025	429.00	DDR		REINSDORF	DDR	012E36 51N55	012E36 51N55	25	RC 2K10A2A		ND	0000 2400	
50229	429.00	DNK		KIRSTINESMINDE	DNK	010E10 56N12	010E10 56N12	50	RC 800HA2A		ND	0000 2400	
50253	429.00	E		ALICANTE	E	000W33 38N18	000W33 38N17	93	RC 2K10A2A		ND	0000 2400	
50251	429.00	E		PLATFORM CASABLANCA	E	001E21 40N43	001E21 40N43	46	RC 2K10A2A		ND	0000 2400	
50328	429.00	F		BIVILLE	F	001W49 49N37	001W49 49N37	46	RC 100HA1AAN		ND	0000 2400	
50359	429.00	F		VILLENEUVE SUR LOT	F	000E46 44N24	000E46 44N24	46	RC 100HA1AAN		ND	0000 2400	
50077	429.00	FNL		AAVAHELUKKA	FNL	023E59 67N36	023E59 67N36	90	RC 100HA1A		ND	0000 2400	
50090	429.00	FNL		MENKIJARVI	FNL	023E31 62N57	023E31 62N57	50	RC 800HA2A		ND	0000 2400	
50271	429.00	GRC		LIMNOS	GRC	024E15 39N55	024E15 39N55	280	RC 850HA2A		ND	0000 2400	
50259	429.00	IRL		BALDONNEL	IRL	006W27 53N18	006W27 53N18	45	RC 2K14A2AAN		ND	0000 2400	
50470	429.00	IRL		MOB 1	IRL	011W00 53N00	011W00 53N00	90	RC 2K14A2AAN		ND	0000 2400	
50911	429.00	LBY		TOBRUK	LBY	023E59 32N06	023E59 32N06	138	RC 2K00A2A		ND	0000 2400	
50561	429.00	MAU		AGALEGA N ISLAND	MAU	056E36 10S22	056E36 10S22	450	RC 1K02A2A		ND	0400 1100	
50474	429.00	MAU		FLIC EN FLAC	MAU	057E22 20S17	057E22 20S17	200	RC 1K02A2A		ND	0000 2400	
50586	429.00	POL		POZNAN LAWICA	POL	016E57 52N24	016E57 52N24	80	RC 2K00A2AAN		ND	0000 2400	
50591	429.00	POL		STALOWA WOLA	POL	022E00 50N38	022E00 50N38	90	RC 2K00A2AAN		ND	0000 2400	
50739	429.00	ROU		CONSTANTA	ROU	028E29 44N20	028E29 44N20	46	RC 2K14A2A		ND	0000 2400	
50030	429.00	SUI		LOCARNO	SUI	008E53 46N10	008E53 46N10	46	RC 2K00A2A		ND	0000 2400	
51080	429.00	TCD		SARH	TCD	018E23 09N09	018E23 09N09	200	RC 2K04A2AAN		ND	0000 2400	
50205	429.00	TCH		BRATISLAVA	TCH	017E14 48N11	017E14 48N11	45	RC 2K40A2A		ND	0000 2400	
50206	429.00	TCH		BRNO	TCH	016E46 49N09	016E46 49N09	45	RC 2K40A2A		ND	0000 2400	
50219	429.00	TCH		PRAHA/MIDDLE	TCH	014E18 50N05	014E18 50N05	45	RC 2K40A2A		ND	0000 2400	
50194	429.00	URS		DONETSK	UKR	037E48 47N56	037E48 47N56	150	RC 2K10A2AAN		ND	0000 2400	
50144	429.00	URS		GALI	URS	041E45 42N38	041E45 42N38	150	RC 2K10A2AAN		ND	0000 2400	
50304	429.00	YUG		MALI LOSINJ	YUG	014E28 44N32	014E28 44N32	100	RC 2K10A2A		ND	0000 2400	
51021	429.50	CME		NGOILA	CME	014E00 02N37	014E00 02N37	100	RC 100HA1A		ND	0000 2400	
50708	430.00	AFS		GIYANI	AFS	030E40 23S22	030E40 23S22	100	RC 1K20H2A		ND	0000 2400	
50709	430.00	AFS		GIYANI	AFS	030E40 23S22	030E40 23S22	100	RC 1K20H2A		ND	0000 2400	
50707	430.00	AFS		JAN SMUTS	AFS	028E13 26S14	028E13 26S14	100	RC 1K20H2A		ND	0000 2400	
51026	430.00	ALG		TIARET	ALG	001E28 35N21	001E28 35N21	100	RC 100HA1A		ND	0000 2400	
50619	430.00	BEL		ANTWERPEN	BEL	004E24 51N11	004E24 51N11	46	RC 2K10A2A		ND	0000 2400	
50721	430.00	CPV		SAL	CPV	022W54 16N42	022W54 16N42	650	RC		ND	0000 2400	
50797	430.00	CTI		BOUNA	CTI	005W02 09N16	005W02 09N16	200	RC 2K10A2A		ND	0000 2400	
50449	430.00	D		BREMGARTEN	D	007E38 47N55	007E38 47N55	93	RC 2K00A2A		ND	0000 2400	
50023	430.00	DDR		BERLIN SCHOENEFELD	DDR	013E33 52N23	013E33 52N23	20	RC 2K10A2A		ND	0000 2400	
50024	430.00	DDR		BERLIN SCHOENEFELD	DDR	013E28 52N22	013E28 52N22	20	RC 2K10A2A		ND	0000 2400	
50368	430.00	F		AIX LES MILLES	F	005E22 43N31	005E22 43N31	46	RC 100HA1A		ND	0000 2400	
50356	430.00	F		PARIS ORLY CHEVANNES	F	002E28 48N33	002E28 48N33	46	RC 800HA2AAN		ND	0000 2400	
50357	430.00	F		S YAN BRIANT	F	004E07 46N18	004E07 46N18	46	RC 100HA1AAN		ND	0000 2400	
50081	430.00	FNL		FORSSA	FNL	023E39 60N48	023E39 60N48	90	RC 100HA1A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50083	430.00		FNL	HAILUOTO	FNL	024E42 64N58	024E42 64N58	90	RC 100HA1A		ND	0000 2400	
50394	430.00		G	BOSCOMBE DOWN	G	001W46 51N11	001W46 51N11	47	RC 850HA2A		ND	0000 2400	
50407	430.00		G	NOTTINGHAM	G	001W05 52N55	001W05 52N55	19	RC 850HA2A		ND	0000 2400	
50419	430.00		G	OIL PLAT MCP 01	G	000W17 58N50	000W17 58N50	56	RC 850HA2A		ND	0000 2400	
50417	430.00		G	OIL PLT AMOCO 49/27F	G	002E19 53N02	002E19 53N02	37	RC 850HA2A		ND	0000 2400	
50623	430.00		GAB	LAMBARENE	GAB	010E14 00S43	010E14 00S43	50	RC 100HA1A		ND	0000 2400	
50008	430.00		HNG	BUGAC	HNG	019E41 46N41	019E41 46N41	100	RC 2K10A2AAN		ND	0000 2400	
50764	430.00		HOL	HOOGEVEEN	HOL	006E31 52N44	006E31 52N44	30	RC 2K14A2AAN		ND	0000 2400	
50551	430.00		MDG	MALAIMBANDY	MDG	045E33 20S21	045E33 20S21	90	RC 100HA1AAN		ND	0300 1500	
50543	430.00		MDG	MANDRITSARA	MDG	048E50 15S50	048E50 15S50	90	RC 100HA1AAN		ND	0300 1500	
50840	430.00		MRC	GUELMIM	MRC	005W40 33N52	005W40 33N52	100	RC 2K04A2A		ND	0000 2400	
50855	430.00		MRC	GUELTAT ZEMMOUR	MRC	012W25 25N10	012W25 25N10	300	RC 2K04A2A		ND	0000 2400	
50278	430.00		MRC	MARRAKECH	MRC	008W15 31N05	008W15 31N05	100	RC 2K06A2A		ND	0000 2400	
50853	430.00		POR	ALVERCA	POR	009W02 38N54	009W02 38N54	300	RC 100HA1A		ND	0000 2400	
50731	430.00		ROU	BUCURESTI/BANEASA	ROU	026E08 44N30	026E08 44N30	28	RC 2K14A2A		ND	0000 2400	
50936	430.00		TGO	SANSANNE MANGO	TGO	029E00 10N22	029E00 10N22	90	RC 2K04A2AAN		ND	0020 2400	
50638	430.00		TUN	MONASTIR SKANES	TUN	010E47 37N46	010E47 37N46	90	RC 100HA2A		ND	0000 2400	
50809	430.00		TUR	ERZINCAN	TUR	039E31 39N43	039E31 39N43	75	RC 2K10A2AAN		ND	0000 2400	
50288	430.00		URS	GOMEL	BLR	031E01 52N25	031E01 52N25	150	RC 2K10A2AAN		ND	0000 2400	
50195	430.00		URS	JITOMIR	UKR	028E20 50N16	028E20 50N16	50	RC 2K10A2AAN		ND	0000 2400	
50152	430.00		URS	ARKHANGHELSK	URS	040E12 64N33	040E12 64N33	50	RC 2K10A2AAN		ND	0000 2400	
50176	430.00		URS	NOVGOROD	URS	031E18 58N32	031E18 58N32	50	RC 2K10A2AAN		ND	0000 2400	
50145	430.00		URS	PETROZAVODSK	URS	034E04 61N47	034E04 61N47	150	RC 2K10A2AAN		ND	0000 2400	
50525	431.00		ALG	CHENACHENE	ALG	004W13 26N03	004W13 26N03	200	RC 100HA1A		ND	0000 2400	
50423	431.00		AUT	VILLACH	AUT	013E55 46N42	013E55 46N42	110	RC 2K10A2A		ND	0000 2400	
50483	431.00		BUL	TOLBOUHIN	BUL	027E50 43N35	027E50 43N35	30	RC 100HA1A		ND	0000 2400	
50997	431.00		CME	DOUALA	CME	009E43 04N01	009E43 04N01	180	RC 100HA1A		ND	0000 2400	
50974	431.00		CME	NGAOUNDERE	CME	013E34 07N22	013E34 07N22	180	RC 2K10A2A		ND	0000 2400	
50778	431.00		CTI	SAN-PEDRO	CTI	006W39 04N44	006W39 04N44	200	RC 2K10A2A		ND	0000 2400	
50450	431.00		D	BARMEN	D	007E11 51N20	007E11 51N20	56	RC 2K00A2A		ND	0000 2400	
50451	431.00		D	DEINING	D	011E33 49N13	011E33 49N13	47	RC 2K00A2A		ND	0000 2400	
50657	431.00		DDR	LANDSBERG	DDR	011E42 52N30	011E42 52N30	48	RC 2K10A2A		ND	0000 2400	
50231	431.00		DNK	ROSKILDE	DNK	012E11 55N38	012E11 55N38	50	RC 800HA2A		ND	0000 2400	
50329	431.00		F	CASTRES	F	002E17 43N33	002E17 43N33	46	RC 100HA1AAN		ND	0000 2400	
50825	431.00		G	PLATFORM DP3	G	003W28 53N48	003W28 53N48	37	RC 850HA2A		ND	0000 2400	
50411	431.00		G	UNST	G	000W51 60N45	000W51 60N45	37	RC 850HA2A		ND	0000 2400	
51066	431.00		GHA	ACCRA	GHA	000W08 05N40	000W08 05N40	250	RC 2K04A2A		ND	0000 2400	
50273	431.00		GRC	IRAKLION	GRC	025E11 35N20	025E11 35N20	280	RC 850HA2A		ND	0000 2400	
50910	431.00		LBY	MESURATA	LBY	015E13 32N22	015E13 32N22	37	RC 2K00A2A		ND	0000 2400	
50549	431.00		MDG	MORAFENOBE	MDG	045E55 17S51	045E55 17S51	90	RC 100HA1AAN		ND	0300 1500	

0	1	2 3	4	5	6	7	8	9	10	11	12	13
50593	431.00	POL	WAPNICA	POL	015E28 53N17	015E28 53N17	55	RC 800HA2AAN		ND	0000 2400	
50748	431.00	ROU	IASI	ROU	027E35 47N14	027E35 47N14	93	RC 2K14A2A		ND	0000 2400	
50631	431.00	TUN	JERBA MELITA AEROPOR	TUN	010E45 33N52	010E45 33N52	185	RC 100HA2A		ND	0000 2400	
50807	431.00	TUR	KARS	TUR	043E06 40N37	043E06 40N37	75	RC 2K10A2AAN		ND	0000 2400	
50196	431.00	URS	PERVOMAISK	UKR	030E13 50N27	030E13 50N27	50	RC 2K10A2AAN		ND	0000 2400	
50146	431.00	URS	SOTCHI	URS	039E42 43N35	039E42 43N35	150	RC 2K10A2AAN		ND	0000 2400	
50506	432.00	ALG	ADRAR	ALG	000W14 27N46	000W14 27N46	100	RC 100HA1A		ND	0000 2400	
50507	432.00	ALG	ORAN ES SENIA	ALG	000W38 35N39	000W38 35N39	100	RC 100HA1A		ND	0000 2400	
50959	432.00	ALG	TINDOUF	ALG	008W10 35N02	008W10 35N02	100	RC 100HA1A		ND	0000 2400	
51055	432.00	BEN	DJOUGOU AEROPORT	BEN	001E40 09N42	001E40 09N42	100	RC 100HA1A		ND	0000 2400	
50324	432.00	CYP	LARNACA	CYP	033E33 34N49	033E33 34N49	150	RC 2K10A2A		ND	0000 2400	
50453	432.00	D	HANAU	D	008E57 50N10	008E57 50N10	47	RC 2K00A2A		ND	0000 2400	
50452	432.00	D	LEMWERDER	D	008E37 53N08	008E37 53N08	47	RC 2K00A2A		ND	0000 2400	
50658	432.00	DDR	BRONKOW	DDR	013E58 51N40	013E58 51N40	50	RC 2K10A2A		ND	0000 2400	
50227	432.00	DNK	KARUP	DNK	008E59 56N18	008E59 56N18	50	RC 800HA2A		ND	0000 2400	
50247	432.00	E	LAS PALMAS	CNR	015W24 27N58	015W24 27N58	185	RC 2K10A2A		ND	0000 2400	
50501	432.00	E	PROTECCION CIVIL	E	003W42 40N25	003W42 40N25	200	RC 2K10A2A		ND	0000 2400	
50338	432.00	F	ROCROI	F	004E25 49N55	004E25 49N55	93	RC 100HA1AAN		ND	0000 2400	
50339	432.00	F	SISTERON	F	005E56 44N17	005E56 44N17	46	RC 100HA1AAN		ND	0000 2400	
50375	432.00	F	USSEL THALAMY	F	002E25 45N33	002E25 45N33	92	RC 100HA1A		ND	0000 2400	
50100	432.00	FNL	SODANKYLA	FNL	026E37 67N24	026E37 67N24	90	RC 100HA1A		ND	0000 2400	
50402	432.00	G	LEE ON SOLENT	G	001W12 50N49	001W12 50N49	19	RC 850HA2A		ND	0000 2400	
51057	432.00	GHA	TAMALE	GHA	000W53 09N26	000W53 09N26	25	RC 2K10A2A		ND	0000 2400	
50119	432.00	HOL	OILRIG	HOL	004E20 53N25	004E20 53N25	50	RC 2K14A2AAN		ND	0000 2400	
50115	432.00	I	VILLAFRANCA	I	010E47 45N19	010E47 45N19	90	RC 2K04A2A		ND	0000 2400	
50469	432.00	IRL	PLATFORM 6	IRL	011W00 53N00	011W00 53N00	45	RC 2K14A2AAN		ND	0000 2400	
51059	432.00	KEN	NAIROBI	KEN	036E49 01S17	036E49 01S17	150	RC 2K04A2A		ND	0000 2400	
51082	432.00	LBY	GIALLO	LBY	021E26 28N42	021E26 28N42	300	RC 2K00A2A		ND	0000 2400	
50541	432.00	MDG	BEALANANA	MDG	048E42 14S33	048E42 14S33	90	RC 100HA1AAN		ND	0300 1500	
50839	432.00	MRC	ERRACHIDIA	MRC	004W25 31N45	004W25 31N45	200	RC 2K04A2A		ND	0000 2400	
50584	432.00	POL	OSIELCINY	POL	018E43 52N38	018E43 52N38	50	RC 800HA2AAN		ND	0000 2400	
50743	432.00	ROU	CRAIOVA	ROU	023E53 44N19	023E53 44N19	148	RC 2K14A2A		ND	0000 2400	
50863	432.00	TCH	BRATISLAVA-IVANKA	TCH	017E10 48N08	017E10 48N08	45	RC 2K10A2A		ND	0000 2400	
50930	432.00	TGO	SANSANNE MANGO	TGO	029E00 10N22	029E00 10N22	90	RC 2K04A2AAN		ND	0020 2400	
50816	432.00	TUR	BEYKOZ	TUR	029E10 41N10	029E10 41N10	140	RC 2K10A2AAN		ND	0000 2400	
50810	432.00	TUR	GAZIANTEP	TUR	037E28 36N57	037E28 36N57	75	RC 2K10A2AAN		ND	0000 2400	
50290	432.00	URS	VITEBSK	BLR	030E11 55N13	030E11 55N13	150	RC 2K10A2AAN		ND	0000 2400	
50197	432.00	URS	BOBRKA	UKR	024E16 49N39	024E16 49N39	150	RC 2K10A2AAN		ND	0000 2400	
50198	432.00	URS	MELITOPOL	UKR	035E22 46N50	035E22 46N50	50	RC 2K10A2AAN		ND	0000 2400	
50303	432.00	YUG	OHRID	YUG	020E40 41N13	020E40 41N13	50	RC 2K10A2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50306	432.00		YUG	SARAJEVO	YUG	018E27	43N56	018E27	43N56	90	RC	2K10A2A	ND 0000 2400
50704	433.00		AFS	WELCOM	AFS	026E42	27S58	026E42	27S58	185	RC	2K10A2A	ND 0000 2400
50524	433.00		ALG	CONSTANTINE	ALG	006E47	36N11	006E47	36N11	300	RC	100HA1A	ND 0000 2400
50523	433.00		ALG	ILLIZI	ALG	008E29	26N30	008E29	26N30	300	RC	100HA1A	ND 0000 2400
51043	433.00		BEN	COTONOU AEROPORT	BEN	002E25	06N23	002E25	06N23	50	RC	2K00A2A	ND 0000 2400
50487	433.00		BUL	HASKOVO	BUL	025E23	41N56	025E23	41N56	30	RC	100HA1A	ND 0000 2400
50955	433.00		CME	AKWAYA	CME	009E34	06N24	009E34	06N24	100	RC	100HA1A	ND 0000 2400
50984	433.00		CME	BERTOUA	CME	013E44	04N32	013E44	04N32	180	RC	100HA1A	ND 0000 2400
50976	433.00		CME	MAROUA	CME	014E15	10N27	014E15	10N27	200	RC	2K10A2A	ND 0000 2400
50788	433.00		CTI	ABENGOUROU	CTI	003W29	06N44	003W29	06N44	200	RC	2K10A2A	ND 0000 2400
50648	433.00		DDR	HAMMERSTEDT	DDR	011E29	50N57	011E29	50N57	40	RC	2K10A2A	ND 0000 2400
50248	433.00		E	JEREZ	E	006W01	36N50	006W01	36N50	93	RC	2K10A2A	ND 0000 2400
50250	433.00		E	PLATFORM CASTELLON	E	001E19	40N41	001E19	40N41	46	RC	2K10A2A	ND 0000 2400
50233	433.00		E	VIGO	E	008W45	42N16	008W45	42N16	93	RC	2K10A2A	ND 0000 2400
50334	433.00		F	HAGUENAU	F	007E49	48N48	007E49	48N48	46	RC	100HA1AAN	ND 0000 2400
50353	433.00		F	VALDAHON	F	006E20	47N10	006E20	47N10	46	RC	100HA1AAN	ND 0000 2400
50084	433.00		FNL	HANKO	FNL	023E05	59N51	023E05	59N51	90	RC	100HA1A	ND 0000 2400
50103	433.00		FNL	VAALA	FNL	026E46	64N30	026E46	64N30	90	RC	100HA1A	ND 0000 2400
50398	433.00		G	CRANFIELD	G	000W33	52N08	000W33	52N08	28	RC	850HA2A	ND 0000 2400
50829	433.00		G	PLATFORM SHELL DD	G	002E11	53N01	002E11	53N01	37	RC	850HA2A	ND 0000 2400
50924	433.00		GRC	ALONISSOS	GRC	023E55	39N15	023E55	39N15	60	RC	850HA2A	ND 0000 2400
50769	433.00		HOL	TEUGE	HOL	006E03	52N15	006E03	52N15	30	RC	2K14A2AAN	ND 0000 2400
50473	433.00		MAU	NOUVELLE FRANCE	MAU	057E44	20S21	057E44	20S21	200	RC	1K02A2A	ND 0000 2400
50553	433.00		MDG	IHOSY	MDG	046E10	22S24	046E10	22S24	90	RC	100HA1AAN	ND 0300 1500
50846	433.00		MRC	MAHBES	MRC	009W05	27N15	009W05	27N15	300	RC	100HA1A	ND 0000 2400
50578	433.00		POL	KETRZYN	POL	021E25	54N02	021E25	54N02	100	RC	800HA2AAN	ND 0000 2400
50742	433.00		ROU	CONSTANTA	ROU	028E37	44N28	028E37	44N28	93	RC	2K14A2A	ND 0000 2400
50208	433.00		TCH	CHOCEN	TCH	016E08	50N00	016E08	50N00	90	RC	2K10A2A	ND 0000 2400
50811	433.00		TUR	DENIZLI/CARDAK	TUR	029E41	37N52	029E41	37N52	75	RC	2K10A2AAN	ND 0000 2400
50199	433.00		URS	SIMFEROPOL	UKR	034E06	44N56	034E06	44N56	150	RC	2K10A2AAN	ND 0000 2400
50148	433.00		URS	MINERALNYE VODY	URS	043E09	44N13	043E09	44N13	50	RC	2K10A2AAN	ND 0000 2400
50165	433.00		URS	PSKOV	URS	028E00	57N43	028E00	57N43	50	RC	2K10A2AAN	ND 0000 2400
50175	433.00		URS	ZAKATALY	URS	046E40	41N38	046E40	41N38	150	RC	2K10A2AAN	ND 0000 2400
50801	433.00		YUG	CRES	YUG	014E25	44N54	014E25	44N54	100	RC	2K10A2A	ND 0000 2400
50684	433.00		ZAI	BOSONDJO	ZAI	021E47	01N15	021E47	01N15	95	RC	2K04A2A	ND 0500 1600
50693	433.00		ZAI	LUEBO	ZAI	021E30	05S21	021E30	05S21	95	RC	2K04A2A	ND 0500 1600
51073	434.00		AGL	PORTO AMBOIM	AGL	013E46	10S43	013E46	10S43	138	RC	2K04A2AAN	ND 0000 2400
50528	434.00		ALG	EL BAYAD	ALG	001E01	33N41	001E01	33N41	100	RC	100HA1A	ND 0000 2400
51056	434.00		BEN	KANDI AEROPORT	BEN	002E56	11N08	002E56	11N08	100	RC	100HA1A	ND 0000 2400
50478	434.00		BUL	SOFIA	BUL	023E24	42N41	023E24	42N41	50	RC	100HA1A	ND 0000 2400

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50457	434.00		D	SCHWAEBISCH GMUEND	D	009E48 48N50	009E48 48N50	28	RC 2K00A2A		ND	0000 2400	
50656	434.00		DDR	BARNEWITZ	DDR	012E37 52N29	012E37 52N29	48	RC 2K10A2A		ND	0000 2400	
50232	434.00		DNK	TIRSTRUP	DNK	010E29 56N19	010E29 56N19	50	RC 800HA2A		ND	0000 2400	
50352	434.00		F	MELUN VILLAROCHE	F	002E38 48N37	002E38 48N37	46	RC 100HA1AAN		ND	0000 2400	
50826	434.00		G	PLATFORM DP1	G	003W35 53N51	003W35 53N51	37	RC 850HA2A		ND	0000 2400	
50011	434.00		HNG	KISKUNFELEGYHAZA	HNG	019E53 46N43	019E53 46N43	100	RC 900HA2AAN		ND	0500 1900	
50120	434.00		HOL	THORN	HOL	005E50 51N11	005E50 51N11	50	RC 2K14A2AAN		ND	0000 2400	
51087	434.00		LBY	NALUT	LBY	010E59 31N52	010E59 31N32	100	RC 2K00A2A		ND	0000 2400	
50547	434.00		MDG	ANKAVANDRA	MDG	045E17 18S48	045E17 18S48	90	RC 100HA1AAN		ND	0300 1500	
50475	434.00		MRC	CASABLANCA NOUASSER	MRC	007W34 32N00	007W34 32N00	100	RC 2K06A2A		ND	0000 2400	
50847	434.00		MRC	TAZA	MRC	004W10 34N08	004W10 34N08	150	RC 2K04A2A		ND	0000 2400	
50580	434.00		POL	KROSNO	POL	021E44 49N41	021E44 49N41	45	RC 2K00A2AAN		ND	0000 2400	
50588	434.00		POL	REPLINO	POL	016E56 52N24	016E56 52N24	70	RC 800HA2AAN		ND	0000 2400	
50730	434.00		ROU	BUCURESTI/BANEASA	ROU	026E04 44N30	026E04 44N30	28	RC 2K14A2A		ND	0000 2400	
50737	434.00		ROU	CLUJ-NAPOCA	ROU	023E43 46N46	023E43 46N46	28	RC 2K14A2A		ND	0000 2400	
50028	434.00		SUI	BIRRFELD	SUI	008E14 47N27	008E14 47N27	46	RC 2K00A2A		ND	0000 2400	
50875	434.00		TCH	MARIANSKE LAZNE	TCH	012E43 49N56	012E43 49N56	45	RC 2K10A2A		ND	0000 2400	
50817	434.00		TUR	ERZURUM/MUDURGE	TUR	041E20 39N58	041E20 39N58	125	RC 2K10A2AAN		ND	0000 2400	
50812	434.00		TUR	ISKENDERUN	TUR	036E05 36N35	036E05 36N35	75	RC 2K10A2AAN		ND	0000 2400	
50289	434.00		URS	MINSK	BLR	027E31 53N53	027E31 53N53	90	RC 2K10A2AAN		ND	0000 2400	
50200	434.00		URS	DNEPROPETROVSK	UKR	035E00 48N29	035E00 48N29	90	RC 2K10A2AAN		ND	0000 2400	
50149	434.00		URS	GORKA	URS	032E22 59N48	032E22 59N48	150	RC 2K10A2AAN		ND	0000 2400	
50151	434.00		URS	SHAULAY	URS	023E15 55N56	023E15 55N56	50	RC 2K10A2AAN		ND	0000 2400	
50968	511.00		ALG	EL GOLEA	ALG	002E52 30N35	002E52 30N35	100	RC 100HA1A		ND	0000 2400	
51006	511.00		ALG	HASSI EL KHEBI	ALG	005W16 29N11	005W16 29N11	100	RC 100HA1A		ND	0000 2400	
50509	511.00		ALG	IN AMENAS	ALG	009E37 28N03	009E37 28N03	300	RC 100HA1A		ND	0000 2400	
50086	511.00		FNL	JAKALAPAA	FNL	025E45 68N43	025E45 68N43	90	RC 100HA1A		ND	0000 2400	
51086	511.00		LBY	WARE HOUSE 59E	LBY	021E26 28N40	021E26 28N40	100	RC 2K00A2A		ND	0000 2400	
50727	511.00		ROU	BAIA MARE	ROU	023E26 47N40	023E26 47N40	46	RC 2K14A2A		ND	0000 2400	
50744	511.00		ROU	CRAIOVA	ROU	023E55 44N19	023E55 44N19	46	RC 2K14A2A		ND	0000 2400	
51081	511.00		TCD	PALA	TCD	014E56 09N23	014E56 09N23	180	RC 2K04A2AAN		ND	0000 2400	
50162	511.00		URS	ORIOL	URS	035E45 53N00	035E45 53N00	150	RC 2K10A2AAN		ND	0000 2400	
50688	511.00		ZAI	KAPANGA	ZAI	022E39 08S21	022E39 08S21	95	RC 2K04A2A		ND	0500 1600	
50700	511.00		ZAI	WATSA	ZAI	021E33 03N00	021E33 03N00	95	RC 2K04A2A		ND	0500 1600	
50514	513.00		ALG	GARADJEBILET	ALG	007W11 26N53	007W11 26N53	200	RC 100HA1A		ND	0000 2400	
51000	513.00		CME	TIGNERE	CME	012E36 07N22	012E36 07N22	100	RC 100HA1A		ND	0000 2400	
51061	513.00		KEN	NAIROBI	KEN	036E49 01S17	036E49 01S17	150	RC 2K04A2A		ND	0000 2400	
50539	513.00		MAU	FLIC EN FLAC	MAU	057E22 20S17	057E22 20S17	50	RC 1K02A2A		ND	0000 2400	
50738	513.00		ROU	CLUJ-NAPOCA	ROU	023E48 46N47	023E48 46N47	46	RC 2K14A2A		ND	0000 2400	
50697	513.00		ZAI	MWENE DITU	ZAI	023E05 06S59	023E05 06S59	95	RC 2K04A2A		ND	0500 1600	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50942	514.00		CME	BAMENDA	CME	010E07 06N02	010E07 06N02	100	RC 2K10A2A		ND	0000 2400	
50790	514.00		CTI	BONDOUKOU	CTI	002W42 08N01	002W42 08N01	200	RC 2K10A2A		ND	0000 2400	
50622	514.00		GAB	BITAM	GAB	011E37 02N05	011E37 02N05	140	RC 100HA1A		ND	0000 2400	
50544	514.00		MDG	BEFANDRIANA	MDG	048E29 15S12	048E29 15S12	90	RC 100HA1AAN		ND	0300 1500	
50681	514.00		ZAI	AKETI	ZAI	023E50 02N42	023E50 02N42	95	RC 2K04A2A		ND	0500 1600	
50682	514.00		ZAI	BINGA	ZAI	020E30 02N26	020E30 02N26	95	RC 2K04A2A		ND	0500 1600	
50692	514.00		ZAI	LUBERO	ZAI	029E15 00S08	029E15 00S08	95	RC 2K04A2A		ND	0500 1600	
50973	515.00		ALG	IN GEZZAM	ALG	005E46 19N34	005E46 19N34	100	RC 100HA1A		ND	0000 2400	
51024	515.00		ALG	TAMANRASSET	ALG	005E25 22N48	005E25 22N48	100	RC 100HA1A		ND	0000 2400	
51038	515.00		BEN	KANDI AEROPORT	BEN	002E56 11N08	002E56 11N08	100	RC 2K00A2A		ND	0000 2400	
51069	515.00		GHA	KIMASI	GHA	000W20 05N52	000W20 05N52	25	RC 2K04A2A		ND	0000 2400	
50749	515.00		ROU	SATU MARE	ROU	022E52 47N38	022E52 47N38	46	RC 2K14A2A		ND	0000 2400	
50155	515.00		URS	BALACHOV	URS	043E10 51N35	043E10 51N35	150	RC 2K10A2AAN		ND	0000 2400	
50938	516.00		ALG	TIMIMOUN	ALG	000E17 29N14	000E17 29N14	100	RC 100HA1A		ND	0000 2400	
50950	516.00		CME	BAFIA	CME	011E16 04N46	011E16 04N46	50	RC 100HA1A		ND	0000 2400	
51029	516.00		CME	MEIGANGA	CME	014E16 06N33	014E16 06N33	100	RC 100HA1A		ND	0000 2400	
50780	516.00		CTI	DALOA	CTI	006W28 06N52	006W28 06N52	200	RC 2K10A2A		ND	0000 2400	
50752	516.00		ROU	SUCEAVA	ROU	026E24 47N45	026E24 47N45	46	RC 2K14A2A		ND	0000 2400	
50168	516.00		URS	BRIANSK	URS	034E02 53N14	034E02 53N14	150	RC 2K10A2AAN		ND	0000 2400	
50680	516.00		ZAI	FUNGURUME	ZAI	026E19 10S32	026E19 10S32	95	RC 2K04A2A		ND	0500 1600	
51046	517.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	002E25 06N23	50	RC 2K00A2A		ND	0000 2400	
51039	517.00		BEN	PARAKOU AEROPORT	BEN	002E38 09N20	002E38 09N20	100	RC 2K00A2A		ND	0000 2400	
50489	517.00		BUL	PLEVEN	BUL	024E35 43N24	024E35 43N24	30	RC 100HA1A		ND	0000 2400	
50960	517.00		CME	MUDEMBA	CME	008E53 05N01	008E53 05N01	100	RC 100HA1A		ND	0000 2400	
51071	517.00		GHA	NSAWAM	GHA	000W20 05N52	000W20 05N52	25	RC 2K04A2A		ND	0000 2400	
50010	517.00		HNG	JASZBERENY	HNG	019E54 47N30	019E54 47N30	50	RC 2K10A2AAN		ND	0000 2400	
50906	517.00		KEN	NAIROBI	KEN	036E52 01S22	036E52 01S22	100	RC 2K04A2AAN		ND	0000 2400	
50729	517.00		ROU	BUCURESTI/BANEASA	ROU	026E02 44N29	026E02 44N29	28	RC 2K14A2A		ND	0000 2400	
50755	517.00		ROU	TIMISOARA	ROU	021E24 45N48	021E24 45N48	46	RC 2K14A2A		ND	0000 2400	
50225	517.00		TCH	ZILINA	TCH	018E36 49N14	018E36 49N14	45	RC 2K40A2A		ND	0000 2400	
50689	517.00		ZAI	KODORO	ZAI	020E20 01N17	020E20 01N17	95	RC 2K04A2A		ND	0500 1600	
50958	519.00		ALG	CHENACHENE	ALG	004W13 26N03	004W13 26N03	100	RC 100HA1A		ND	0000 2400	
50532	519.00		ALG	TAMANRASSET	ALG	005E25 22N48	005E25 22N48	300	RC 100HA1A		ND	0000 2400	
50982	519.00		CME	BAFOUSSAM	CME	010E25 05N27	010E25 05N27	100	RC 100HA1A		ND	0000 2400	
51034	519.00		CME	BATOURI	CME	014E22 04N28	014E22 04N28	180	RC 100HA1A		ND	0000 2400	
51064	519.00		GHA	TAMALE	GHA	000W52 09N24	000W52 09N24	250	RC 2K04A2A		ND	0000 2400	
50883	519.00		TCH	POPRAD TATRY/WEST	TCH	020E16 49N04	020E16 49N04	45	RC 2K10A2A		ND	0000 2400	
50699	519.00		ZAI	SANDOA	ZAI	022E56 09S42	022E56 09S42	95	RC 2K04A2A		ND	0500 1600	
51076	520.00		AGL	CAFUNFO	AGL	018E00 08S46	018E00 08S46	185	RC 2K04A2AAN		ND	0000 2400	
50937	520.00		ALG	GARA DJEBILET	ALG	007W11 26N53	007W11 26N53	100	RC 100HA1A		ND	0000 2400	

0	1	2 3	4	5	6	7	8	9	10	11	12	13
51049	520.00	BEN	COTONOU AEROPORT	BEN	002E25 06N23	002E25 06N23	100	RC 100HA1A		ND	0000 2400	
50019	520.00	HNG	BUDAORS	HNG	018E59 47N27	018E59 47N27	40	RC 2K10A2AAN		ND	0000 2400	
50171	520.00	URS	MUKHRANI	URS	044E34 41N55	044E34 41N55	90	RC 2K10A2AAN		ND	0000 2400	
50156	520.00	URS	ORIOL	URS	035E45 53N00	035E45 53N00	50	RC 2K10A2AAN		ND	0000 2400	
50694	520.00	ZAI	LUIZA	ZAI	022E04 07S11	022E04 07S11	95	RC 2K04A2A		ND	0500 1600	
50696	520.00	ZAI	N'SANGI	ZAI	015E19 05S36	015E19 05S36	95	RC 2K04A2A		ND	0500 1600	
50695	520.00	ZAI	NWADINGUSHA	ZAI	027E12 10S45	027E12 10S45	95	RC 2K04A2A		ND	0500 1600	
51041	521.00	BEN	PARAKOU AEROPORT	BEN	002E38 09N20	002E38 09N20	100	RC 100HA1A		ND	0000 2400	
50998	521.00	CME	YAGOUA	CME	015E14 10N22	015E14 10N22	100	RC 100HA1A		ND	0000 2400	
50991	521.00	CME	YAOUNDE	CME	011E31 03N50	011E31 03N50	100	RC 2K10A2A		ND	0000 2400	
51065	521.00	GHA	TAKORADI	GHA	001W45 04N54	001W45 04N54	250	RC 2K04A2A		ND	0000 2400	
51060	521.00	KEN	NAIROBI	KEN	036E49 01S17	036E49 01S17	150	RC 2K04A2A		ND	0000 2400	
50158	521.00	URS	KALATCH	URS	040E40 50N26	040E40 50N26	50	RC 2K10A2AAN		ND	0000 2400	
50172	521.00	URS	MITCHURINSK	URS	040E11 52N54	040E11 52N54	50	RC 2K10A2AAN		ND	0000 2400	
51079	522.00	AGL	CABINDA	AGL	012E12 05S37	012E12 05S37	185	RC 2K04A2AAN		ND	0000 2400	
50952	522.00	ALG	BORDJ OMAR DRISS	ALG	006E50 28N08	006E50 28N08	100	RC 100HA1A		ND	0000 2400	
50965	522.00	CME	CAMPO	CME	009E56 02N22	009E56 02N22	50	RC 100HA1A		ND	0000 2400	
51001	522.00	CME	NGAOUNDAL	CME	013E23 06N24	013E23 06N24	100	RC 100HA1A		ND	0000 2400	
50961	522.00	CME	NGUTI	CME	009E25 05N20	009E25 05N20	50	RC 100HA1A		ND	0000 2400	
50009	522.00	HNG	NYIREGYHAZA	HNG	021E42 48N00	021E42 48N00	25	RC 2K10A2AAN		ND	0000 2400	
50987	522.50	CME	GAROUA	CME	013E25 09N20	013E25 09N20	100	RC 2K10A2A		ND	0000 2400	
50715	523.00	AFS	SAINT LUCIA	AFS	032E20 28S00	032E20 28S00	100	RC 2K10A2A		ND	0000 2400	
50966	523.00	ALG	DJANET	ALG	009E26 24N16	009E26 24N16	100	RC 100HA1A		ND	0000 2400	
51007	523.00	CME	MOULOUNDOU	CME	015E13 02N02	015E13 02N02	180	RC 100HA1A		ND	0000 2400	
50776	523.00	CTI	YAMOUSSOUKRO	CTI	005W20 06N55	005W20 06N55	200	RC 2K10A2A		ND	0000 2400	
50277	523.00	MRC	AGADIR	MRC	009W40 30N25	009W40 30N25	100	RC 2K10A2A		ND	0000 2400	
50838	523.00	MRC	TARFAYA	MRC	012W55 27N57	012W55 27N57	100	RC 100HA1A		ND	0000 2400	
50685	523.00	ZAI	IKELA	ZAI	023E17 01S12	023E17 01S12	95	RC 2K04A2A		ND	0500 1600	
50687	523.00	ZAI	KABINDA	ZAI	024E20 06S07	024E20 06S07	95	RC 2K04A2A		ND	0500 1600	
50990	524.00	CME	YAOUNDE	CME	011E31 03N50	011E31 03N50	180	RC 100HA1A		ND	0000 2400	
50159	524.00	URS	MITCHURINSK	URS	040E11 52N54	040E11 52N54	150	RC 2K10A2AAN		ND	0000 2400	
50714	525.00	AFS	SAINT LUCIA	AFS	032E20 28S00	032E20 28S00	100	RC 2K10A2A		ND	0000 2400	
50756	526.00	ROU	TIMISOARA	ROU	021E18 45N49	021E18 45N49	28	RC 2K14A2A		ND	0000 2400	
50179	526.00	URS	KURSK	URS	036E12 51N46	036E12 51N46	50	RC 2K10A2AAN		ND	0000 2400	

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 103(Rev.1)-E
8 March 1985
Original: English

COMMITTEE 5

Greece

PROPOSAL

1. Introduction

The ad hoc Working Group C5-A-4 approved a draft Recommendation for the replacement frequency of 425 kHz and its use as a world-wide ship station working frequency.

Greece entered a reservation in the decision of this ad hoc Group because the text proposed and adopted seems to disconnect termination of use of the frequency 425 kHz by ship stations in Region 1 from the availability of its world-wide replacement frequency. This reservation would be withdrawn if the text of the Recommendation in resolves 1 could be modified so as to clearly connect termination of use of frequency 425 kHz by ship stations with the availability of its replacement frequency.

2. Proposal

For this reason, we propose the following modification of the draft Recommendation:

"resolves

1) to invite all administrations to cease authorizing the use of the frequency 425 kHz by ship stations in Region 1 on and from the date when the replacement frequency of 425 kHz specified by the 1987 WARC comes into use as an international ship station working frequency for all Regions."

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

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COMMITTEE 4

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GENEVA, FEBRUARY/MARCH 1985

Document 104-E
7 March 1985
Original: English

COMMITTEE 7

FIRST SERIES OF TEXTS SUBMITTED BY COMMITTEE 6

TO THE EDITORIAL COMMITTEE

The texts in the annex hereto were adopted by Committee 6 and are submitted to the Editorial Committee.

S. CHALLO
Chairman of Committee 6

Annexes: 2

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ANNEX 1

DRAFT

REGIONAL AGREEMENT CONCERNING THE MF MARITIME MOBILE AND AERONAUTICAL RADIONAVIGTION SERVICES (REGION 1) Geneva, 1985

Preamble

The delegates of the following Members of the International Telecommunication Union:

meeting in Geneva for a Regional Administrative Radio Conference convened under the terms of Article 7 of the International Telecommunication Convention, Nairobi, 1982, have adopted subject to the approval of the competent authorities of their respective countries the following provisions relating to the maritime mobile service and the aeronautical radionavigation (radiobeacon) service in Region 1.

ARTICLE 1

Definitions

1. For the purpose of this Agreement, the following terms shall have the meanings defined below:

Union: The International Telecommunication Union;

Secretary-General: The Secretary-General of the Union;

ICAO: The International Civil Aviation Organization;

IFRB: The International Frequency Registration Board;

CCIR: The International Radio Consultative Committee;

Convention: The International Telecommunication Convention, Nairobi, 1982;

Radio Regulations: The Radio Regulations, Geneva 1979, as revised by the WARC-MOB-83, annexed to the Convention;

Region 1: The geographical area defined in No. 393 of the Radio Regulations;

Agreement: The whole of this Agreement including its Annexes and Appendices;

Plans: The Plans forming Annexes [A to F] to this Agreement and their Appendices;

Contracting Member: Any Member of the Union which has approved or acceded to this Agreement;

Administration: Any governmental department or service responsible for discharging the obligations undertaken in the International Telecommunication Convention and the Radio Regulations;

Pairing (as applied to the Plans for the maritime mobile service): A method of assigning two frequencies, one to be used by a coast station for transmission when communicating with ships, the other to be assigned to the same coast station for reception, to be used by ships for transmission when communicating with that coast station;

Assignment in conformity with the Agreement: Any frequency assignment appearing in any of the Plans or any frequency assignment for which the procedure of Article 4 has been successfully applied.

ARTICLE 2

Frequency Bands

2. The provisions of this Agreement apply in Region 1 to the following services in the bands allocated to them under Article 8 of the Radio Regulations:

a) 415 - 435 kHz allocated to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) 435 - 526.5 kHz allocated to the maritime mobile service on a primary basis;

c) 505 - 526.5 kHz allocated to the aeronautical radionavigation service on a permitted basis;

d) 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz allocated to the maritime mobile service on a primary basis.

These provisions also apply to:

e) Fixed and land mobile services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a permitted basis (primary in the countries listed in No. 483 of the Radio Regulations);

f) the radiodetermination service, after successful application of the procedure of Article 14 of the Radio Regulations (No. 484).

ARTICLE 3

Execution of this Agreement

3. The Contracting Members shall adopt for their stations in the aeronautical radionavigation service operating in Region 1 in the frequency bands referred to in this Agreement the characteristics specified in the Plans at Annexes [A to D] and in their Appendices.

4. The Contracting Members shall adopt for their stations in the maritime mobile service operating in Region 1 in the frequency bands referred to in this Agreement the characteristics specified in the Plans at Annexes [B, C, E and F] and in their Appendices.

5. The Contracting Members shall not bring assignments complying with the Plans into use, modify the technical characteristics of stations specified in the Plans, or bring new stations into use, except under the conditions specified in Articles 4 and 5 of this Agreement.

6. When assigning frequencies to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, Contracting Members shall take account of the frequency assignments to stations of the maritime mobile service which are in conformity with the Agreement or for which the modification procedure contained in Article 4 has been initiated.

7. The Contracting Members shall endeavour to coordinate the necessary action to reduce any harmful interference that may result from the application of the Agreement.

- - - - - - - - - - -

ARTICLE 7

Special Arrangements

[ ] In addition to the procedures provided for in Articles 4 and 6 of this Agreement and to facilitate their application with a view to improving the utilization of the Plans, Contracting Members may conclude special arrangements in accordance with the relevant provisions of the Convention and of the Radio Regulations.

ARTICLE 8

Scope of Application of this Agreement

[ ] This Agreement shall bind Contracting Members in their relations with one another but shall not bind those Members with respect to non-contracting countries.

[ ] If a Contracting Member makes reservations with regard to any provision of this Agreement, other Contracting Members shall be free to disregard that provision in their relations with the Contracting Member which has made such reservations.

ARTICLE 9

Approval of this Agreement

[ ] This Agreement shall be subject to approval by the competent authorities of the countries on behalf of which the Agreement was signed. Instruments of approval shall be deposited, in as short a time as possible, with the Secretary-General, who shall inform all the Members of the Union.

ARTICLE 10

Accession to this Agreement

[ ] Any Member of the Union in Region 1 which has not signed this Agreement may accede thereto at any time. Such accession shall extend to the Plans as they stand at the time of the accession and shall be made without reservation. The instruments of accession shall be deposited with the Secretary-General who shall promptly inform all the Members of the Union. This Agreement shall enter into force for each Member acceding to this Agreement after the date of its entry into force on the date of the deposit by such a Member of its instrument of accession.

ARTICLE 11

Termination of Participation in this Agreement

[ ] Any Contracting Member shall have the right at any time to terminate its participation in this Agreement by a notification sent to the Secretary-General who shall inform all the Members of the Union.

[ ] Such termination of participation shall take effect after a period of one year from the date of receipt by the Secretary-General of the said notification.

[ ] On the date on which the termination of participation becomes effective, the IFRB shall delete from the Plans the assignments entered in the name of the Member concerned.

ARTICLE 12

Revision of the Agreement

[ ] No revision of this Agreement shall be undertaken except by a competent administrative radio conference of the Members of the Union in Region 1, convened in accordance with the procedure laid down in the Convention.

ARTICLE 13

Replacement of Copenhagen Plan, 1948

[ ] Insofar as the Contracting Members of the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948, are concerned, the Plan annexed to that Convention is replaced by the Plans annexed to this Agreement.

ARTICLE 14

Effective Date of this Agreement

[ ] This Agreement shall enter into force on [ ] at 0001 hours UTC.

In witness whereof the delegations of Members of the Union mentioned above have, on behalf of their respective competent authorities, signed this Agreement in a single copy in the French, English and Spanish languages in which, in case of dispute, the French text shall be authentic. This copy shall remain deposited in the archives of the Union. The Secretary-General shall forward one certified copy to each Member in Region 1. Done at Geneva, .. March, 1985.

ANNEX 2

DRAFT RECOMMENDATION No. COM 6/A (MM)

Relating to the Channelling Arrangement for the Maritime Mobile Service in the Frequency Band 435 - 526.5 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an agreement and associated frequency plan for the frequency band 435 - 526.5 kHz for the maritime mobile service;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 1 to Resolution No. 704 (MOB-83) were used as a basis for the planning of this band;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the band referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency band 435 - 526.5 kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of an appendix to the Radio Regulations containing the channelling arrangement in Appendix 1 to Resolution No. 704 (MOB-83) with the view to the later inclusion in the Radio Regulations;

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency band 435 - 526.5 kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

ANNEX TO RECOMMENDATION No. COM 6/A

Channelling of the frequency bands between 435 - 526.5 kHz for the Maritime Mobile Service

[To be developed by Committee 5.]

DRAFT RECOMMENDATION No. COM 6/B (MM)

Relating to the Channelling Arrangement for the Maritime Mobile Service in the Frequency Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an agreement and associated frequency plans for the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz for narrow-band direct printing and digital selective calling in the maritime mobile service in Region 1;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 (MOB-83) with the view to their later inclusion in the Radio Regulations;

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

ANNEX TO RECOMMENDATION No. COM 6/B

Channelling of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz used for narrow-band direct-printing telegraphy by the Maritime Mobile Service

[To be developed by Committee 5.]

DRAFT RECOMMENDATION NO. COM 6/C (MM)

Relating to the Channelling Arrangement for the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an agreement and associated frequency plans for the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz for single sideband radiotelephony in the maritime mobile service in Region 1;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution No. 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 (MOB-83) with the view to their later inclusion in the Radio Regulations.

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

ANNEX TO RECOMMENDATION No. COM 6/C

Channelling of the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz used for single sideband radiotelephony by the Maritime Mobile Service

[To be developed by Committee 5.]

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 1 to
Document 105-E
9 March 1985

B.1 (MM)
(Corr.1)

PLENARY MEETING

FIRST SERIES OF TEXTS SUBMITTED BY THE EDITORIAL COMMITTEE

TO THE PLENARY MEETING

Please replace pages B.1/5 (MM) and B.1/6 (MM) of Document 105 (B.1-MM) by the attached pages.

J.-L. BLANC
Chairman of the Editorial Committee

Annexes: 2 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

6. When assigning frequencies to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, Contracting Members shall take account of the frequency assignments to stations of the maritime mobile service which are in conformity with the Agreement or for which the modification procedure contained in Article 4 has been initiated.

7. The Contracting Members shall endeavour to coordinate their efforts with a view to reducing any harmful interference that may result from the application of this Agreement.

8. In order to avoid mutual interference between stations in the Plan, administrations shall take all necessary steps to ensure that the frequencies used for radiotelephony in the bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are used only within the coverage area specified in the Plan.

[Articles 4, 5, 6]

ARTICLE 7

Special Arrangements

[ ] In addition to the procedures provided for in Articles 4 and 6 of this Agreement and to facilitate their application with a view to improving the utilization of the Plans, Contracting Members may conclude special arrangements in accordance with the relevant provisions of the Convention and of the Radio Regulations.

ARTICLE 8

Scope of Application of this Agreement

[ ] This Agreement shall bind Contracting Members in their relations with one another but shall not bind those Members with respect to non-contracting countries.

[ ] If a Contracting Member makes reservations with regard to any provision of this Agreement, other Contracting Members shall be free to disregard that provision in their relations with the Contracting Member which has made such reservations.

ARTICLE 9

Approval of this Agreement

[ ] This Agreement shall be subject to approval by the competent authorities of the countries on behalf of which the Agreement was signed. Instruments of approval shall be deposited, in as short a time as possible, with the Secretary-General, who shall inform all the Members of the Union.

BLUE PAGES

ARTICLE 10

Accession to this Agreement

[ ] Any Member of the Union in Region 1 which has not signed this Agreement may accede thereto at any time. Such accession shall extend to the Plans as they stand at the time of the accession and shall be made without reservation. The instruments of accession shall be deposited with the Secretary-General who shall promptly inform all the Members of the Union. After the date of entry into force of this Agreement, for each Member acceding to the Agreement it shall enter into force on the day of the deposit by such a Member of its instrument of accession.

ARTICLE 11

Termination of Participation in this Agreement

[ ] Any Contracting Member shall have the right at any time to terminate its participation in this Agreement by a notification sent to the Secretary-General who shall inform all the Members of the Union.

[ ] Such termination of participation shall take effect after a period of one year from the date of receipt by the Secretary-General of the said notification.

[ ] On the date on which the termination of participation becomes effective, the IFRB shall delete from the Plans the assignments entered in the name of the Member concerned.

ARTICLE 12

Revision of the Agreement

[ ] No revision of this Agreement shall be undertaken except by a competent administrative radio conference of the Members of the Union in Region 1, convened in accordance with the procedure laid down in the Convention.

ARTICLE 13

Abrogation and Replacement of the Copenhagen Convention, 1948 and the Copenhagen Plan annexed thereto

[ ] The present Agreement and the Plan annexed hereto are considered by the contracting members to the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948, to be the appropriate instruments to abrogate this Convention and the Plan annexed thereto, which both, in accordance with the provisions of Article 7 of that Convention, shall be abrogated as from the entry into force of the present Agreement and the Plans annexed hereto and replaced by the latter.

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 105-E
8 March 1985

B.1 (MM) PLENARY MEETING

FIRST SERIES OF TEXTS SUBMITTED BY THE EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
COM.6	104	Regional Agreement (Article 1 to 3; Articles 7 to 14)
		Recommendation No. COM 6/A (MM)*
		Recommendation No. COM 6/B (MM)*
		Recommendation No. COM 6/C (MM)*

J.-L. BLANC
Chairman of the Editorial Committee

* Annex will be developed by Committee 5.

Annexes: 13 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

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FINAL ACTS

OF THE
REGIONAL ADMINISTRATIVE CONFERENCE
FOR THE PLANNING OF THE MF MARITIME
MOBILE AND AERONAUTICAL RADIONAVIGATION
SERVICES (REGION 1)

GENEVA, 1985

Regional Agreement concerning the MF maritime mobile and aeronautical radionavigation services (Region 1) Geneva, 1985

Preamble

The delegates of the following Members of the International Telecommunication Union:

[List of countries]

meeting in Geneva for a Regional Administrative Radio Conference convened under the terms of Article 7 of the International Telecommunication Convention, Nairobi, 1982, have adopted subject to the approval of the competent authorities of their respective countries the following provisions relating to the maritime mobile service and the aeronautical radionavigation (radiobeacon) service in Region 1.

ARTICLE 1

Definitions

1. For the purpose of this Agreement, the following terms shall have the meanings defined below:

Union: The International Telecommunication Union;

Secretary-General: The Secretary-General of the Union;

IFRB: The International Frequency Registration Board (the Board);

CCIR: The International Radio Consultative Committee;

ICAO: The International Civil Aviation Organization;

Convention: The International Telecommunication Convention, Nairobi, 1982;

Radio Regulations: The Radio Regulations, Geneva 1979, as revised by the WARC-MOB-83, annexed to the Convention;

Region 1: The geographical area defined in No. 393 of the Radio Regulations;

Agreement: The whole of this Agreement including its Annexes and Appendices;

Plans: The Plans forming Annexes [A to F] to this Agreement and their Appendices;

Contracting Member: Any Member of the Union which has approved or acceded to this Agreement;

Administration: Any governmental department or service responsible for discharging the obligations undertaken in the International Telecommunication Convention and the Radio Regulations;

Pairing (as applied to the Plans for the maritime mobile service): A method of assigning two frequencies, one to be used by a coast station for transmission when communicating with ships, the other to be assigned to the same coast station for reception, to be used by ships for transmission when communicating with that coast station;

Assignment in conformity with the Agreement: Any frequency assignment appearing in any of the Plans or any frequency assignment for which the procedure of Article 4 has been successfully applied.

ARTICLE 2

Frequency Bands

2. The provisions of this Agreement apply in Region 1 to the following services in the bands allocated to them under Article 8 of the Radio Regulations:

a) 415 - 435 kHz allocated to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) [435 - 495 and 505 - 526.5 kHz] allocated to the maritime mobile service on a primary basis;

c) 505 - 526.5 kHz allocated to the aeronautical radionavigation service on a permitted basis;

d) 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz allocated to the maritime mobile service on a primary basis.

These provisions also apply to:

e) Fixed and land mobile services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a permitted basis (primary in the countries listed in No. 483 of the Radio Regulations);

f) the radiodetermination service (No. 484), after successful application of the procedure of Article 14 of the Radio Regulations.

ARTICLE 3

Execution of this Agreement

3. The Contracting Members shall adopt, for their stations in the aeronautical radionavigation service operating in Region 1 in the frequency bands referred to in this Agreement, the characteristics specified in the Plans at Annexes [A and D] and in their Appendices.

4. The Contracting Members shall adopt, for their stations in the maritime mobile service operating in Region 1 in the frequency bands referred to in this Agreement, the characteristics specified in the Plans at Annexes [B, C, E and F] and in their Appendices.

5. The Contracting Members shall not bring assignments complying with the Plans into use, modify the technical characteristics of stations specified in the Plans, or bring new stations into use, except under the conditions specified in Articles 4 and 5 of this Agreement.

6. When assigning frequencies to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, Contracting Members shall take account of the frequency assignments to stations of the maritime mobile service which are in conformity with the Agreement or for which the modification procedure contained in Article 4 has been initiated.

7. The Contracting Members shall endeavour to coordinate their efforts with a view to reducing any harmful interference that may result from the application of this Agreement.

[Articles 4, 5, 6]

ARTICLE 7

Special Arrangements

[ ] In addition to the procedures provided for in Articles 4 and 6 of this Agreement and to facilitate their application with a view to improving the utilization of the Plans, Contracting Members may conclude special arrangements in accordance with the relevant provisions of the Convention and of the Radio Regulations.

ARTICLE 8

Scope of Application of this Agreement

[ ] This Agreement shall bind Contracting Members in their relations with one another but shall not bind those Members with respect to non-contracting countries.

[ ] If a Contracting Member makes reservations with regard to any provision of this Agreement, other Contracting Members shall be free to disregard that provision in their relations with the Contracting Member which has made such reservations.

ARTICLE 9

Approval of this Agreement

[ ] This Agreement shall be subject to approval by the competent authorities of the countries on behalf of which the Agreement was signed. Instruments of approval shall be deposited, in as short a time as possible, with the Secretary-General, who shall inform all the Members of the Union.

ARTICLE 10

Accession to this Agreement

[ ] Any Member of the Union in Region 1 which has not signed this Agreement may accede thereto at any time. Such accession shall extend to the Plans as they stand at the time of the accession and shall be made without reservation. The instruments of accession shall be deposited with the Secretary-General who shall promptly inform all the Members of the Union. After the date of entry into force of this Agreement, for each Member acceding to the Agreement it shall enter into force on the day of the deposit by such a Member of its instrument of accession.

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Termination of Participation in this Agreement

[ ] Any Contracting Member shall have the right at any time to terminate its participation in this Agreement by a notification sent to the Secretary-General who shall inform all the Members of the Union.

[ ] Such termination of participation shall take effect after a period of one year from the date of receipt by the Secretary-General of the said notification.

[ ] On the date on which the termination of participation becomes effective, the IFRB shall delete from the Plans the assignments entered in the name of the Member concerned.

ARTICLE 12

Revision of the Agreement

[ ] No revision of this Agreement shall be undertaken except by a competent administrative radio conference of the Members of the Union in Region 1, convened in accordance with the procedure laid down in the Convention.

ARTICLE 13

Replacement of Copenhagen Plan, 1948

[ ] Insofar as the Contracting Members of the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948, are concerned, the Plan annexed to that Convention is replaced by the Plans annexed to this Agreement.

ARTICLE 14

Effective Date of this Agreement

[ ] This Agreement shall enter into force on [ ] at 0001 hours UTC.

In witness whereof the delegations of Members of the Union mentioned above have, on behalf of their respective competent authorities, signed this Agreement in a single copy in the Arabic, English, French, Russian and Spanish languages in which, in case of dispute, the French text shall be authentic. This copy shall remain deposited in the archives of the Union. The Secretary-General shall forward one certified copy to each Member in Region 1.

Done at Geneva, [...] March, 1985.

RECOMMENDATION No. COM 6/A (MM)

Channelling arrangement for the maritime mobile service in the frequency [bands 435 - 495 and 505 - 526.5] kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an Agreement and associated Frequency Plan for the frequency [bands 435 - 495 and 505 - 526.5] kHz for the maritime mobile service;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 1 to Resolution No. 704 (MOB-83) were used as a basis for the planning of [this band/these bands];

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the [bands] referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency [bands 435 - 495 and 505 - 526.5] kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of an appendix to the Radio Regulations containing the channelling arrangement in Appendix 1 to Resolution No. 704 (MOB-83) with a view to their later inclusion in the Radio Regulations;

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency band[s 435 - 495 and 505 - 526.5] kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

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ANNEX TO RECOMMENDATION No. COM 6/A (MM)

[Channelling arrangement for the maritime mobile service in the frequency band[s 435 - 495 and 505 - 526.5 kHz in Region 1]

[To be developed by Committee 5.]

RECOMMENDATION No. COM 6/B (MM)

Channelling arrangement for the maritime mobile service in the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an Agreement and associated Frequency Plans for the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz for narrow-band direct printing and digital selective calling in the maritime mobile service in Region 1;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 (MOB-83) with a view to their later inclusion in the Radio Regulations;

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

ANNEX TO RECOMMENDATION No. COM 6/B (MM)

Channelling of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz used for narrow-band direct-printing telegraphy by the maritime mobile service

[To be developed by Committee 5.]

RECOMMENDATION NO. COM 6/C (MM)

Channelling arrangement for the maritime mobile service in the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an Agreement and associated Frequency Plans for the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz for single sideband radiotelephony in the maritime mobile service in Region 1;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution No. 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 (MOB-83) with a view to their later inclusion in the Radio Regulations;

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

ANNEX TO RECOMMENDATION No. COM 6/C [MM]

Channelling of the frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz used for single sideband radiotelephony by the maritime mobile service

[To be developed by Committee 5.]

INTERNATIONAL TELECOMMUNICATION UNION

RARC FOR THE PLANNING OF FREQUENCIES FOR MARITIME RADIOBEACONS IN THE EUROPEAN MARITIME AREA

GENEVA, MARCH 1985

EUROP.

Document 1047-E
8 March 1985
Original: French

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION

RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1

GENEVA, FEBRUARY/MARCH 1985

Document 106-E
8 March 1985
Original: French

BUDGET CONTROL COMMITTEE

Note by the Secretary-General

POSITION OF THE CONFERENCE ACCOUNTS at 8 March 1985

I hereby submit an estimate of the Conference expenses at 8 March 1985 for the consideration of the Budget Control Committees.

The statement shows a surplus of 242,500.- Swiss francs over the budget approved by the Administrative Council and adjusted to take account of changes in the common system of salaries and allowances.

R.E. BUTLER
Secretary-General

Annex: 1

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX

Item No.	Heading	Approved budget	Adjusted budget	Credit transfers		Available credits	Expenditure as at 8 March 1985			
				item to item	subhead to subhead		actual	committed	estimated	total
1	2	3	4	5	6	7	8	9	10	11
	I. Staff expenses									
20.401	Secretariat salaries, etc.	968,000	1,051,500		- 25,000	1,026,500	18,161	743,496	123,343	885,000
20.402	Common services salaries, etc.	508,000	562,500			562,500	32,183	481,561	48,756	562,500
20.403	Travel (recruitment)	80,000	80,000			80,000	9,450	37,380	3,170	50,000
20.404	Insurance	77,000	77,000			77,000	1,694	-	58,306	60,000
		1,633,000	1,771,000	-	- 25,000	1,746,000	61,488	1,262,437	233,575	1,557,500
	II. Travel expenses	-	-			-				-
	III. Premises and equipment									
20.431	Premises, furniture, machines	32,000	32,000	+8,000		40,000	-	39,600	400	40,000
20.432	Document production	142,000	142,000			142,000	8,678	1,647	79,675	90,000
20.433	Office supplies and overheads	20,000	20,000			20,000	4,053	-	15,947	20,000
20.434	Postage, telephone calls, telegrams	30,000	30,000	-5,000		25,000	668	-	24,332	25,000
20.435	Technical installations	5,000	5,000	-3,000		2,000	-	-	-	-
20.436	Sundry and unforeseen	10,000	10,000			10,000	-	-	10,000	10,000
		239,000	239,000	-	-	239,000	13,399	41,247	130,354	185,000
	IV. Other expenses									
20.441	Interest credited to the ordinary budget	35,000	35,000	-5,000		30,000	-	-	30,000	30,000
20.442	IFRB preparatory work	-	-	+5,000	+25,000	30,000	30,000	-	-	30,000
		35,000	35,000	-	+25,000	60,000	30,000	-	30,000	60,000
	V. Final Acts									
20.451	Final Acts of the two Conferences	86,000	86,000			86,000	-	-	86,000	86,000
	Total	1,993,000	2,131,000	-	-	2,131,000	104,887	1,303,684	479,929	1,888,500

1) Budget including additional credits to take account of changes in the common system of staff salaries of the United Nations.

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE PLANNING OF FREQUENCIES FOR MARITIME RADIOBEACONS IN THE EUROPEAN MARITIME AREA
GENEVA, MARCH 1985

EUROP

Document 1049(Rev.1)-E
12 March 1985
Original: French

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 107(Rev.1)-E
12 March 1985
Original: French

PLENARY MEETINGS

REPORT OF THE BUDGET CONTROL COMMITTEE TO THE PLENARY MEETINGS OF THE TWO CONFERENCES

The Budget Control Committee held three meetings during the Conferences and examined the questions arising from its terms of reference.

Under Nos. 475 to 479 of the International Telecommunication Convention (Nairobi, 1982), the Committee's terms of reference are:

a) to determine the organization and the facilities available to delegates;

b) to examine and approve the accounts for expenditure incurred throughout the duration of the Conference;

c) to estimate the costs that may be entailed by the execution of the decisions taken by the Conference.

1. Determination of the organization and facilities available to delegates

As there were no comments by delegations on the subject, Committee 3 concluded that the organization and the facilities available to delegates were adequate.

2. Budget of the Conferences

At its 39th session (1984) the Administrative Council decided that the two Regional Conferences should be held simultaneously at Geneva with a single secretariat in order to enhance efficiency and reduce costs. It therefore approved a single budget covering both Conferences. This joint budget, amounting to 1,993,000 Swiss francs, was examined by the Budget Control Committee.

The Committee noted that the budget of the Conferences had been adjusted by 138,000 Swiss francs to take into account changes in the common system of the United Nations and the specialized agencies with regard to the salaries and allowances of short-term supernumerary staff and fluctuations in the rate of exchange between the US dollar and the Swiss franc, as required by Administrative Council Resolution No. 647.

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

3. Final Acts of the Conferences

Under the terms of Administrative Council Resolution No. 83 (amended):

"... if a conference prints, for its own use, documents of which the typographical composition can subsequently be used, in whole or in part, for the printing of the Final Acts, it must bear a percentage of the composition costs and the whole of the printing costs of the said document;

... the percentage of the composition cost mentioned in the above paragraph ... shall be decided by the Plenary Meeting of the Conference.".

Parts of the texts making up the Final Acts of the Conferences which are to be signed by delegations can be used for the final printing.

The Plenary Meetings of the Conferences must decide what share of the cost of preparing these texts should be borne, respectively, by the budget of the Conferences and the supplementary publications budget.

Taking into account decisions adopted by previous conferences and by the Administrative Council when it approved the budget of the Conferences, the Budget Control Committee proposes that these costs be distributed as follows:

1/3 to be charged to the budget of the Conferences;

2/3 to be charged to the supplementary publications budget.

The estimate of expenditure given in Annex 1 takes account of a 1/3 - 2/3 distribution.

4. Situation of conference expenditure

Under No. 478 of the Convention, the Budget Control Committee has to submit a report to the Plenary Meeting showing, as accurately as possible, the estimated total expenditure of the Conferences.

Accordingly, Annex 1 contains a statement showing the budget of the Conferences, together with a breakdown of credits among the budget subheads and items, as well as the actual expenditure incurred as at 8 March 1985. There is also an indication of the expenditure committed up to that date and an estimate of expenditure up to the date of closure of the Conferences.

Credits transferred from subhead to subhead in accordance with Article 15, paragraph 3, of the Financial Regulations of the Union are also given in Annex 1.

The statement shows that total expenditure is estimated at 1,888,500 Swiss francs i.e. 242,500 Swiss francs less than the budget approved by the Administrative Council and adjusted in accordance with its Resolution No. 647.

5. Recognized private operating agencies and international organizations taking part in the Conferences

No recognized private operating agency is taking part in the Conferences. The international organizations participating in the work of both Conferences are listed in Annex 2 to this report.

6. Sharing of conference expenditure

RARC MM-R1 and RARC EMA are to be considered as regional conferences within the meaning of No. 50 in Article 7 of the Nairobi Convention (1982), and the expenditure arising from them must be borne by all the Members of the respective Regions according to the class of contribution they have chosen pursuant to No. 115 in Article 15 of the Convention.

It should be noted in this respect that, in approving the budget of the two Conferences, the Administrative Council decided that their total cost should be shared as follows:

2/3 to be borne by RARC MM-R1

1/3 to be borne by RARC EMA.

A list of the Members which must bear the costs of the two Conferences is given in Annexes 3.1 and 3.2.

According to the statement of account in Annex 1, total expenditure is estimated at 1,888,500 Swiss francs. On the basis of the number of contributory units of the Members required to bear the cost of the Conferences, the amount of the contributory units may be estimated at:

- for RARC MM-R1: 5,250 Swiss francs
- for RARC EMA: 2,975 Swiss francs

Under Article 28 of the Financial Regulations of the Union, interest is payable on regional conference accounts after a period of 60 days from the date of their despatch. Since invoices can probably be sent to participants at the end of May 1985, they should be settled not later than 31 July 1985. From 1 August 1985 they will be subject to interest at 3% for the first 180 days and at 6% thereafter.

7. Additional expenditure to be envisaged for implementation of the decisions of the two Conferences

No. 478 of the International Telecommunication Convention (Nairobi, 1982) provides that the Budget Control Committee's report to the Plenary Meeting must show, as accurately as possible, the costs that may be entailed by the execution of the decisions taken by the Conferences. Article 80 of the Convention, concerning the **financial responsibilities of administrative conferences, specifies that before adopting proposals with financial implications, conferences must take account of all the Union's budgetary provisions with a view to ensuring that those proposals will not result in expenses beyond the credits which the Administrative Council is empowered to authorize. Furthermore, Resolution No. 48 of the Nairobi Conference provides:**

"that before adopting resolutions or taking decisions which are likely to result in additional and unforeseen demands upon the budgets of the Union, future administrative conferences ..., having regard to the need for economy, shall:

1.1 prepare and take into account estimates of the additional demands made on the budgets of the Union;

1.2 where two or more proposals are involved, arrange them in an order of priority;

1.3 prepare and submit to the Administrative Council a statement of the estimated budgetary impact, together with a summary of the significance and benefit to the Union of financing the implementation of those decisions, and an indication of priorities where appropriate;".

The financial implications of the decisions taken at the two Conferences were the subject of a note by the Chairman of the IFRB and a memorandum by the Director of the CCIR.

The Budget Control Committee therefore appends to this report Annexes 4 and 5 concerning the expenditure that might be entailed by implementation of the decisions of the two Conferences.

* * *

In accordance with No. 479 of the Convention, this report will be transmitted to the Secretary-General, together with any comments by the Plenary Meetings, for referral to the Administrative Council at its next annual session.

* * *

The Plenary Meetings are requested to approve this report.

Chairman of the Budget
Control Committee

of RARC MM-R1 S.S. AL-BASHEER

of RARC EMA P. CAREY

Annexes: 5

ANNEX 1

Item No.	Heading	Approved budget	Adjusted budget	Credit transfers		Available credits	Expenditure as at 8 March 1985			
				item to item	subhead to subhead		actual	committed	estimated	total
1	2	3	4	5	6	7	8	9	10	11
	I. Staff expenses									
20.401	Secretariat salaries, etc.	968,000	1,051,500		- 25,000	1,026,500	18,161	743,496	123,343	885,000
20.402	Common services salaries, etc.	508,000	562,500			562,500	32,183	481,561	48,756	562,500
20.403	Travel (recruitment)	80,000	80,000			80,000	9,450	37,380	3,170	50,000
20.404	Insurance	77,000	77,000			77,000	1,694	-	58,306	60,000
		1,633,000	1,771,000	-	- 25,000	1,746,000	61,488	1,262,437	233,575	1,557,500
	II. Travel expenses	-	-			-				-
	III. Premises and equipment									
20.431	Premises, furniture, machines	32,000	32,000	+8,000		40,000	-	39,600	400	40,000
20.432	Document production	142,000	142,000			142,000	8,678	1,647	79,675	90,000
20.433	Office supplies and overheads	20,000	20,000			20,000	4,053	-	15,947	20,000
20.434	Postage, telephone calls, telegrams	30,000	30,000	-5,000		25,000	668	-	24,332	25,000
20.435	Technical installations	5,000	5,000	-3,000		2,000	-	-	-	-
20.436	Sundry and unforeseen	10,000	10,000			10,000	-	-	10,000	10,000
		239,000	239,000	-	-	239,000	13,399	41,247	130,354	185,000
	IV. Other expenses									
20.441	Interest credited to the ordinary budget	35,000	35,000	-5,000		30,000	-	-	30,000	30,000
20.442	IFRB preparatory work	-	-	+5,000	+25,000	30,000	30,000	-	-	30,000
		35,000	35,000	-	+25,000	60,000	30,000	-	30,000	60,000
	V. Final Acts									
20.451	Final Acts of the two Conferences	86,000	86,000			86,000	-	-	86,000	86,000
	Total	1,993,000	2,131,000	-	-	2,131,000	104,887	1,303,684	479,929	1,888,500

1) Budget including additional credits to take account of changes in the common system of staff salaries of the United Nations.

ANNEX 2

Recognized private operating agencies and international organizations taking part in the Conferences

	Number of contributory units	
	RARC MM-R1	RARC EMA
1. Recognized private operating agencies		
None		
2. International organizations		
- International Association of Lighthouse Authorities (IALA)		½
- International Air Transport Association (IATA)	*	
- International Marine Radio Association (CIRM)	*	*
- International Electrotechnical Commission (IEC)	*	*
- International Transport Workers' Federation (ITF)	**	
- International Amateur Radio Union (IARU)	*	*

* International organization exempt from any contribution under the provisions of Administrative Council Resolution No. 574.

** The class of contribution has not yet been notified.

ANNEX 3.1

Contributions by Members of the Union towards defraying the expenses of RARC MM-R1

Under No. 115 of the International Telecommunication Convention (Nairobi, 1982), expenses incurred by regional administrative conferences are borne by the Members of the regions concerned. These are as follows:

Members of Region 1

		Contributory units
1.	Albania (Socialist People's Republic of)	1/4
2.	Algeria (People's Democratic Republic of)	1
3.	Germany (Federal Republic of)	30
4.	Angola (People's Republic of)	1/4
5.	Saudi Arabia (Kingdom of)	10
6.	Austria	1
7.	Bahrain (State of)	1/2
8.	Belgium	5
9.	Benin (People's Republic of)	1/4
10.	Byelorussian Soviet Socialist Republic	1/2
11.	Botswana (Republic of)	1/2
12.	Bulgaria (People's Republic of)	1
13.	Burkina Faso	1/8
14.	Burundi (Republic of)	1/8
15.	Cameroon (Republic of)	1/2
16.	Cape Verde (Republic of)	1/8
17.	Central African Republic	1/8
18.	Cyprus (Republic of)	1/4
19.	Vatican City State	1/4
20.	Comoros (Islamic Federal Republic of the)	1/8
21.	Congo (People's Republic of the)	1/2
22.	Ivory Coast (Republic of the)	1
23.	Denmark	5
24.	Djibouti (Republic of)	1/8
25.	Egypt (Arab Republic of)	1
26.	United Arab Emirates	1
27.	Spain	3
28.	Ethiopia	1/8
29.	Finland	5
30.	France	30
31.	Gabonese Republic	1/2
32.	Gambia (Republic of the)	1/8
33.	Ghana	1/4
34.	Greece	1
35.	Guinea (Republic of)	1/8
36.	Guinea-Bissau (Republic of)	1/8
37.	Equatorial Guinea (Republic of)	1/8
38.	Hungarian People's Republic	1
39.	Iraq (Republic of)	1/4
40.	Ireland	2

		Contributory units
41.	Iceland	1/4
42.	Israel (State of)	1
43.	Italy	10
44.	Jordan (Hashemite Kingdom of)	1/2
45.	Kenya (Republic of)	1/4
46.	Kuwait (State of)	1
47.	Lesotho (Kingdom of)	1/8
48.	Lebanon	1/4
49.	Liberia (Republic of)	1/4
50.	Libya (Socialist People's Libyan Arab Jamahiriya)	1
51.	Liechtenstein (Principality of)	1/2
52.	Luxembourg	1/2
53.	Madagascar (Democratic Republic of)	1/4
54.	Malawi	1/8
55.	Mali (Republic of)	1/8
56.	Malta (Republic of)	1/4
57.	Morocco (Kingdom of)	1
58.	Mauritius	1/4
59.	Mauritania (Islamic Republic of)	1/4
60.	Monaco	1/4
61.	Mongolian People's Republic	1/4
62.	Mozambique (People's Republic of)	1/4
63.	Namibia	-
64.	Niger (Republic of the)	1/8
65.	Nigeria (Federal Republic of)	2
66.	Norway	5
67.	Oman (Sultanate of)	1/2
68.	Uganda (Republic of)	1/8
69.	Netherlands (Kingdom of the)	10
70.	Poland (People's Republic of)	2
71.	Portugal	1
72.	Qatar (State of)	1/2
73.	Syrian Arab Republic	1/2
74.	German Democratic Republic	3
75.	Ukrainian Soviet Socialist Republic	1
76.	Romania (Socialist Republic of)	1/2
77.	United Kingdom of Great Britain and Northern Ireland	30
78.	Rwandese Republic	1/8
79.	San Marino (Republic of)	1/4
80.	Sao Tome and Principe (Democratic Republic of)	1/8
81.	Senegal (Republic of)	1
82.	Sierra Leone	1/8
83.	Somali Democratic Republic	1/8
84.	Sudan (Democratic Republic of the)	1/8
85.	South Africa (Republic of)	1
86.	Sweden	10
87.	Switzerland (Confederation of)	10
88.	Swaziland (Kingdom of)	1/4
89.	Tanzania (United Republic of)	1/8
90.	Chad (Republic of)	1/8

		Contributory units
91.	Czechoslovak Socialist Republic	2
92.	Togolese Republic	1/4
93.	Tunisia	1
94.	Turkey	1
95.	Union of Soviet Socialist Republics	30
96.	Yemen Arab Republic	1/4
97.	Yemen (People's Democratic Republic of)	1/8
98.	Yugoslavia (Socialist Federal Republic of)	1
99.	Zaire (Republic of)	1/2
100.	Zambia (Republic of)	1/4
101.	Zimbabwe (Republic of)	1/2
	Total	239 3/4

ANNEX 3.2

Contributions by Members of the Union
towards defraying the expenses of RARC EMA

Under No. 115 of the International Telecommunication Convention (Nairobi, 1982), expenses incurred by regional administrative conferences are borne by the Members of the regions concerned. These are as follows:

Members of the European Maritime Area:

	Contributory units
1. Albania (Socialist People's Republic of)	1/4
2. Algeria (People's Democratic Republic of)	1
3. Germany (Federal Republic of)	30
4. Austria	1
5. Belgium	5
6. Byelorussian Soviet Socialist Republic	1/2
7. Bulgaria (People's Republic of)	1
8. Cyprus (Republic of)	1/4
9. Vatican City State	1/4
10. Denmark	5
11. Egypt (Arab Republic of)	1
12. Spain	3
13. Finland	5
14. France	30
15. Greece	1
16. Hungarian People's Republic	1
17. Iraq (Republic of)	1/4
18. Ireland	2
19. Iceland	1/4
20. Israel (State of)	1
21. Italy	10
22. Jordan (Hashemite Kingdom of)	1/2
23. Lebanon	1/4
24. Libya (Socialist People's Libyan Arab Jamahiriya)	1 1/2
25. Liechtenstein (Principality of)	1/2

	Contributory units
26. Luxembourg	1/2
27. Malta (Republic of)	1/4
28. Morocco (Kingdom of)	1
29. Monaco	1/4
30. Norway	5
31. Netherlands (Kingdom of the)	10
32. Poland (People's Republic of)	2
33. Portugal	1
34. Syrian Arab Republic	1/2
35. German Democratic Republic	3
36. Ukrainian Soviet Socialist Republic	1
37. Romania (Socialist Republic of)	1/2
38. United Kingdom of Great Britain and Northern Ireland	30
39. San Marino (Republic of)	1/4
40. Sweden	10
41. Switzerland (Confederation of)	10
42. Czechoslovak Socialist Republic	2
43. Tunisia	1
44. Turkey	1
45. Union of Soviet Socialist Republics	30
46. Yugoslavia (Socialist Federal Republic of)	1
Total	211 3/4

ANNEX 4

NOTE BY THE CHAIRMAN, IFRB
TO THE CHAIRMEN OF COMMITTEE 3, EMA AND MM CONFERENCES

PROVISIONAL ESTIMATES OF THE IFRB REQUIREMENTS FOR IMMEDIATE POST-CONFERENCE WORK

Both the Conferences, namely RARC Region 1 and the RARC EMA are in the last stages of their work but have not yet completed the consideration of the texts presented by their respective Committees. On the assumption that the texts presented by the Committees would be accepted by the Plenary Sessions of the respective Conferences, the IFRB has made a provisional estimate for carrying out the immediate post-conference work as equivalent to the following staff for a period of 12 months

1 P4 System Analyst and 1 G4 Assistant

The financial repercussions of this requirement can be provided by the Finance Department of the General Secretariat.

A document based on a more detailed analysis of the results of the two Conferences will be prepared by the Board for consideration by the 40th Session of the Administrative Council due to be held in July 1985.

G.C. Brooks
Chairman

ANNEX 5

COMITÉ CONSULTATIF INTERNATIONAL
DES RADIOCOMMUNICATIONS
(C. C. I. R.)

COMITÉ CONSULTIVO INTERNACIONAL
DE RADIOCOMUNICACIONES
(C.C.I.R.)

INTERNATIONAL RADIO CONSULTATIVE COMMITTEE
(C. C. I. R.)

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EMA-R1/6

12 March, 1985

MEMORANDUM

To : Mr. P. CAREY, Chairman Committee 3
of Regional Administrative Radio Conference for the planning of frequencies for maritime radiobeacons in the European Maritime Area

From : Mr. Richard C. KIRBY, Director CCIR

Subject: Draft Resolution No. COM 4/1 (EMA).

Committee 4 adopted on 11 March 1985 Draft Resolution No. COM 4/1 (EMA). By this Resolution, the CCIR is invited to carry out certain studies in preparation of the WARC/MOB-87. It may be necessary to set up an Interim Working Party of Study Group 8 to carry out this work, and one or two meetings would then be required.

Could you please foresee SF 50,000 to this effect in the budgetary provisions of the Conference.

c.c. Mr. T. Hahkio, Chairman of the Conference EMA-R1,
Mr. R. E. Butler, Secretary General ITU.

CS/dvt

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE PLANNING OF FREQUENCIES FOR MARITIME RADIOBEACONS IN THE EUROPEAN MARITIME AREA
GENEVA, MARCH 1985

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REGION 1

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RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
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The Committee noted that the budget of the Conferences had been adjusted by Swiss francs to take into account changes in the common system of the United Nations and the specialized agencies with regard to the salaries and allowances of short-term supernumerary staff and fluctuations in the rate of exchange between the US dollar and the Swiss franc, as required by Administrative Council Resolution No. 647.

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... the percentage of the composition cost mentioned in the above paragraph ... shall be decided by the Plenary Meeting of the Conference.".

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The estimate of expenditure given in Annex 1 takes account of a 1/3 - 2/3 distribution.

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The statement shows that total expenditure is estimated at Swiss francs i.e. Swiss francs less than the amount approved by the Administrative Council and adjusted in accordance with its Resolution No. 647.

5. Recognized private operating agencies and international organizations taking part in the Conferences

No recognized private operating agency is taking part in the Conferences. The international organizations participating in the work of both Conferences are listed in Annex 2 to this report.

6. Sharing of conference expenditure

RARC MM-R1 and RARC EMA are to be considered as regional conferences within the meaning of No. 50 in Article 7 of the Nairobi Convention (1982), and the expenditure arising from them must be borne by all the Members of the respective Regions according to the class of contribution they have chosen pursuant to No. 115 in Article 15 of the Convention.

It should be noted in this respect that, in approving the budget of the two Conferences, the Administrative Council decided that their total cost should be shared as follows:

2/3 to be borne by RARC MM-R1

1/3 to be borne by RARC EMA.

A list of the Members which must bear the costs of the two Conferences is given in Annexes 3.1 and 3.2.

According to the statement of account in Annex 1, total expenditure is estimated at Swiss francs. On the basis of the number of contributory units of the Members required to bear the cost of the Conferences, the amount of the contributory units may be estimated at:

- for RARC MM-R1:

- for RARC EMA:

Under Article 28 of the Financial Regulations of the Union, interest is payable on regional conference accounts after a period of 60 days from the date of their despatch. Since invoices can probably be sent to participants at the end of May 1985, they should be settled not later than 31 July 1985. From 1 August 1985 they will be subject to interest at 3% for the first 180 days and at 6% thereafter.

7. Additional expenditure to be envisaged for implementation of the decisions of the two Conferences

No. 478 of the International Telecommunication Convention (Nairobi, 1982) provides that the Budget Control Committee's report to the Plenary Meeting must show, as accurately as possible, the costs that may be entailed by the execution of the decisions taken by the Conferences. Article 80 of the Convention, concerning the **financial responsibilities of administrative conferences, specifies that before adopting proposals with financial implications, conferences must take account of all the Union's budgetary provisions with a view to ensuring that those proposals will not result in expenses beyond the credits which the Administrative Council is empowered to authorize. Furthermore, Resolution No. 48 of the Nairobi Conference provides:**

"that before adopting resolutions or taking decisions which are likely to result in additional and unforeseen demands upon the budgets of the Union, future administrative conferences ..., having regard to the need for economy, shall:

1.1 prepare and take into account estimates of the additional demands made on the budgets of the Union;

1.2 where two or more proposals are involved, arrange them in an order of priority;

1.3 prepare and submit to the Administrative Council a statement of the estimated budgetary impact, together with a summary of the significance and benefit to the Union of financing the implementation of those decisions, and an indication of priorities where appropriate;".

The financial implications of the decisions taken at the two Conferences were the subject of reports.

The Budget Control Committee therefore appends to this report Annexes concerning the expenditure that might be entailed by implementation of the decisions of the two Conferences.

* * *

In accordance with No. 479 of the Convention, this report will be transmitted to the Secretary-General, together with any comments by the Plenary Meetings, for referral to the Administrative Council at its next annual session.

* * *

The Plenary Meetings are requested to approve this report.

Chairman of the Budget
Control Committee

of RARC MM-R1 S.S. AL-BASHEER

of RARC EMA P. CAREY

Annexes:

ANNEX 1

Position of the accounts of the two Conferences
at 8 March 1985

To be added subsequently.

ANNEX 2

Recognized private operating agencies
and international organizations
taking part in the Conferences

	Number of contributory units	
	RARC MM-R1	RARC EMA
1. Recognized private operating agencies		
None		
2. International organizations		
- International Association of Lighthouse Authorities (IALA)		**
- International Air Transport Association (IATA)	*	
- International Marine Radio Association (CIRM)	*	*
- International Electrotechnical Commission (IEC)	*	*
- International Transport Workers' Federation (ITF)	**	
- International Amateur Radio Union (IARU)	*	*

* International organization exempt from any contribution under the provisions of Administrative Council Resolution No. 574.

** The class of contribution has not yet been notified.

ANNEX 3.1

Contributions by Members of the Union
towards defraying the expenses of RARC MM-R1

Under No. 115 of the International Telecommunication Convention (Nairobi, 1982), expenses incurred by regional administrative conferences are borne by the Members of the regions concerned. These are as follows:

Members of Region 1

		Contributory units
1.	Albania (Socialist People's Republic of)	1/4
2.	Algeria (People's Democratic Republic of)	1
3.	Germany (Federal Republic of)	30
4.	Angola (People's Republic of)	1/4
5.	Saudi Arabia (Kingdom of)	10
6.	Austria	1
7.	Bahrain (State of)	1/2
8.	Belgium	5
9.	Benin (People's Republic of)	1/4
10.	Byelorussian Soviet Socialist Republic	1/2
11.	Botswana (Republic of)	1/2
12.	Bulgaria (People's Republic of)	1
13.	Burkina Faso	1/8
14.	Burundi (Republic of)	1/8
15.	Cameroon (Republic of)	1/2
16.	Cape Verde (Republic of)	1/8
17.	Central African Republic	1/8
18.	Cyprus (Republic of)	1/4
19.	Vatican City State	1/4
20.	Comoros (Islamic Federal Republic of the)	1/8
21.	Congo (People's Republic of the)	1/2
22.	Ivory Coast (Republic of the)	1
23.	Denmark	5
24.	Djibouti (Republic of)	1/8
25.	Egypt (Arab Republic of)	1
26.	United Arab Emirates	1
27.	Spain	3
28.	Ethiopia	1/8
29.	Finland	5
30.	France	30
31.	Gabonese Republic	1/2
32.	Gambia (Republic of the)	1/8
33.	Ghana	1/4
34.	Greece	1
35.	Guinea (Republic of)	1/8
36.	Guinea-Bissau (Republic of)	1/8
37.	Equatorial Guinea (Republic of)	1/8
38.	Hungarian People's Republic	1
39.	Iraq (Republic of)	1/4
40.	Ireland	2

		Contributory units
41.	Iceland	1/4
42.	Israel (State of)	1
43.	Italy	10
44.	Jordan (Hashemite Kingdom of)	1/2
45.	Kenya (Republic of)	1/4
46.	Kuwait (State of)	1
47.	Lesotho (Kingdom of)	1/8
48.	Lebanon	1/4
49.	Liberia (Republic of)	1/4
50.	Libya (Socialist People's Libyan Arab Jamahiriya)	1½
51.	Liechtenstein (Principality of)	1/2
52.	Luxembourg	1/2
53.	Madagascar (Democratic Republic of)	1/4
54.	Malawi	1/8
55.	Mali (Republic of)	1/8
56.	Malta (Republic of)	1/4
57.	Morocco (Kingdom of)	1
58.	Mauritius	1/4
59.	Mauritania (Islamic Republic of)	1/4
60.	Monaco	1/4
61.	Mongolian People's Republic	1/4
62.	Mozambique (People's Republic of)	1/4
63.	Namibia	-
64.	Niger (Republic of the)	1/8
65.	Nigeria (Federal Republic of)	2
66.	Norway	5
67.	Oman (Sultanate of)	1/2
68.	Uganda (Republic of)	1/8
69.	Netherlands (Kingdom of the)	10
70.	Poland (People's Republic of)	2
71.	Portugal	1
72.	Qatar (State of)	1/2
73.	Syrian Arab Republic	1/2
74.	German Democratic Republic	3
75.	Ukrainian Soviet Socialist Republic	1
76.	Romania (Socialist Republic of)	1/2
77.	United Kingdom of Great Britain and Northern Ireland	30
78.	Rwandese Republic	1/8
79.	San Marino (Republic of)	1/4
80.	Sao Tome and Principe (Democratic Republic of)	1/8
81.	Senegal (Republic of)	1
82.	Sierra Leone	1/8
83.	Somali Democratic Republic	1/8
84.	Sudan (Democratic Republic of the)	1/8
85.	South Africa (Republic of)	1
86.	Sweden	10
87.	Switzerland (Confederation of)	10
88.	Swaziland (Kingdom of)	1/4
89.	Tanzania (United Republic of)	1/8
90.	Chad (Republic of)	1/8

		Contributory units
91.	Czechoslovak Socialist Republic	2
92.	Togolese Republic	1/4
93.	Tunisia	1
94.	Turkey	1
95.	Union of Soviet Socialist Republics	30
96.	Yemen Arab Republic	1/4
97.	Yemen (People's Democratic Republic of)	1/8
98.	Yugoslavia (Socialist Federal Republic of)	1
99.	Zaire (Republic of)	1/2
100.	Zambia (Republic of)	1/4
101.	Zimbabwe (Republic of)	1/2
	Total	239 3/4

ANNEX 3.2

Contributions by Members of the Union
towards defraying the expenses of RARC EMA

Under No. 115 of the International Telecommunication Convention (Nairobi, 1982), expenses incurred by regional administrative conferences are borne by the Members of the regions concerned. These are as follows:

Members of the European Maritime Area:

	Contributory units
1. Albania (Socialist People's Republic of)	1/4
2. Algeria (People's Democratic Republic of)	1
3. Germany (Federal Republic of)	30
4. Austria	1
5. Belgium	5
6. Byelorussian Soviet Socialist Republic	1/2
7. Bulgaria (People's Republic of)	1
8. Cyprus (Republic of)	1/4
9. Vatican City State	1/4
10. Denmark	5
11. Egypt (Arab Republic of)	1
12. Spain	3
13. Finland	5
14. France	30
15. Greece	1
16. Hungarian People's Republic	1
17. Iraq (Republic of)	1/4
18. Ireland	2
19. Iceland	1/4
20. Israel (State of)	1
21. Italy	10
22. Jordan (Hashemite Kingdom of)	1/2
23. Lebanon	1/4
24. Libya (Socialist People's Libyan Arab Jamahiriya)	1 1/2
25. Liechtenstein (Principality of)	1/2

	Contributory units
26. Luxembourg	1/2
27. Malta (Republic of)	1/4
28. Morocco (Kingdom of)	1
29. Monaco	1/4
30. Norway	5
31. Netherlands (Kingdom of the)	10
32. Poland (People's Republic of)	2
33. Portugal	1
34. Syrian Arab Republic	1/2
35. German Democratic Republic	3
36. Ukrainian Soviet Socialist Republic	1
37. Romania (Socialist Republic of)	1/2
38. United Kingdom of Great Britain and Northern Ireland	30
39. San Marino (Republic of)	1/4
40. Sweden	10
41. Switzerland (Confederation of)	10
42. Czechoslovak Socialist Republic	2
43. Tunisia	1
44. Turkey	1
45. Union of Soviet Socialist Republics	30
46. Yugoslavia (Socialist Federal Republic of)	1
Total	211 3/4

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 1 to
Document 108-E
3 April 1985
Original: English

SUMMARY RECORD

OF THE

SIXTH MEETING OF COMMITTEE 5

Insert the following new paragraph after paragraph 1.4:

"1.4a. The delegate of Portugal said that the frequency 435 kHz should be planned only for aeronautical radiobeacons and the use of the frequency by the maritime mobile service could be accepted in cases where there was no incompatibility with the aeronautical radiobeacons."

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 108-E
12 March 1985
Original: English

COMMITTEE 5

SUMMARY RECORD

OF THE

SIXTH MEETING OF COMMITTEE 5

(PLANNING)

Wednesday, 6 March 1985, at 1405 hrs

Chairman: Mr. T. BØE (Norway)

Subjects discussed:	Documents
1. Discussion on questions related to the planning exercise (continued)	36, 63
2. Recommendation to WARC-87 on the termination of the use of international working frequency 425 kHz	4, 6, 7, 10, 13, 15, 32, 43
3. Assignable frequencies (channelling arrangement of the Plans) to be proposed to Committee 6	DT/16
4. Identification of the matters not yet dealt with in Committee 5	-
5. Information to be included in the Plans	DT/15

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1. Discussion on questions related to the planning exercise (continued)
(Documents 36, 63)

1.1 The Chairman invited the Committee to continue discussing outstanding points concerning planning in the 500 kHz band and proposed that frequency 415 kHz should not be taken into account in the planning process.

It was so decided.

1.2 The Chairman, pointing out that 435 kHz was a border frequency between two allocations of the Table in RR Article 8, said that the Committee should decide whether or not to take the frequency into account in the planning process and, in the affirmative case, whether it should be used primarily for the maritime mobile service or the aeronautical radionavigation service.

1.3 In reply to a question by the delegate of Finland, the representative of the IFRB said that, if an assignment was notified on frequency 435 kHz for the aeronautical radionavigation service, a regulatory Finding taking account of RR 343 could be reached by the Board, but would be accompanied by a remark to the effect that a band edge frequency was concerned.

1.4 The delegate of France observed that, although additional precautions such as not using the frequency or providing a guard band were often taken with regard to frequencies at the band edge between allocations, the present Conference, which was dealing with the two services concerned on the same computer program, was in a position to dispense with such precautions and therefore should not waste a much-needed frequency.

After further discussion, it was decided that frequency 435 kHz should be taken into account in the planning exercise and should be used on a primary basis by the maritime mobile service working with coast stations having a service range of up to 200 km.

1.5 With regard to late requirements, the Chairman said that there had been some response to the telexes sent by the Chairman of the Conference, to various administrations in Region 1 urging them to submit their requirements to the IFRB by noon on Thursday, 28 February 1985 (minutes of the first Plenary Meeting, Document 39, section 13.1), but that owing to certain difficulties of communication that time limit had been extended in a very few cases to noon on Wednesday, 6 March 1985. The number of requirements involved was very small and they should all be dealt with on an individual basis by Planning Groups.

1.6 The delegates of Iraq and Libya said that, owing to certain misunderstandings, their delegations would be unable to submit their requirements until later that afternoon.

After a brief discussion, during which the delegate of Sweden drew attention to the dangerous precedent that might be established for future conferences by extending the fixed time limits, it was agreed to set the deadline for the submission of requirements by Ghana, Iraq, Libya and Tunisia at 2000 hours on Wednesday, 6 March 1985.

1.7 The delegate of Denmark raised a question regarding the consequences of the planning method being used and the Plan as a whole. The Plan optimized the use of the frequency spectrum available by assigning frequencies to coast stations where the agreed protection ratio was just obtained, normally by assigning adjacent channels to

neighbouring stations or in some cases to the same station. Problems which would arise in the former case were difficult to overcome by technical means. Since it was not possible to change either the program or the planning method at the present stage, he proposed a text to cover that situation for submission to the Chairman of Committee 6 with a view to its insertion in the Agreement.

After discussion the Committee agreed to accept the first part of the proposed text, namely:

"To avoid mutual interference between stations in the Plan, administrations should take all necessary steps to ensure:

i) that the frequencies are only used within the coverage area specified in the Plan".

1.8 The delegate of France drew attention to his Administration's proposals in Document 72 which might need further clarification as a consequence.

The Committee took note of that comment.

1.9 The delegate of the Federal Republic of Germany drew attention to section 2.5.2.2 in Document 63, which stated that the frequency 2 170.5 kHz was designated for international DSC use. He wondered whether that was consistent with the Radio Regulations. If it were not, since it was a frequency for SSC calling, he proposed two possible solutions: that a frequency should be planned at the present Conference, which would submit an appropriate Resolution to the 1987 Conference, which would mean that the frequency could not be used until 1989, or a narrow-band printed channel could be set aside for the purpose. His Administration would prefer to set aside a channel for international DSC calling which could be used when the Final Acts of the present Conference entered into force.

It having been pointed out that the frequency 2 170.5 kHz was not available for DSC, it was agreed that the point would be examined by ad hoc Group 3 which should provide a solution by the next meeting of Committee 5.

1.10 The Chairman said that as the Committee had solved the outstanding problems concerning the 2 MHz band, it might be possible to remove some of the reservations indicated in Document 63.

1.11 The delegate of Spain said that his Administration could now withdraw its reservations indicated in sub-section 2.2.1, since its requirements had now been included. However, it maintained its reservation under sub-section 2.2.3.

1.12 The delegate of France pointed out that his Administration's reservation concerned sub-section 2.4 and not sub-section 2.2.3. It was not yet able to withdraw that reservation.

1.13 The Chairman, referring to section 7, asked whether the Committee considered that the second computer run should be based on a service range of 400 km for the 2 MHz band, and on 500 km for the 500 kHz band.

It was so agreed.

1.14 The delegate of the Netherlands said that his Administration would withdraw its reservation. However, it regretted that the first run had been based on a service range of 400 km. The Netherlands' Administration would have liked to see 500 km used in order to see the outcome.

1.15 The delegate of the United Kingdom asked for an assurance that the statement in sub-section 2.5.2.1 regarding pairing arrangements with ship station frequencies was in fact possible.

1.16 The delegate of Sweden said that the problem concerning adjacent coast station channels had occurred in a number of cases, and it might therefore be better to rearrange the ship stations' transmitting frequencies as suggested the previous day by the delegate of Denmark. There should be some channelling arrangement enabling frequencies for ship station transmissions to be taken in numerical order up to 2 139.4 kHz, and starting again with 2 061.4 kHz. It might be preferable to work out a table of frequencies.

1.17 The Chairman observed that the problem could be considered in greater detail when the Committee considered Document DT/16.

1.18 The delegate of the Netherlands, having asked whether the order of priority for the second computer run would be in accordance with sub-section 2.1.1 or with sub-section 2.1.2, the Chairman replied that since the first run had not been satisfactory, the order of priority would follow sub-section 2.1.2. The delegate of Sweden added that night protection would therefore be disregarded and only ground-wave propagation would be considered.

1.19 The Chairman invited the Committee to consider ways of dealing with any incompatibilities arising after the second run.

1.20 The delegate of Finland suggested that it might still be possible to find an acceptable compromise, as a result of bilateral negotiations, after the results of the second run were made available, and before the end of the Conference.

1.21 The Technical Secretary confirmed that view. Efforts to improve the Plan would continue until the Plan was read out in the Plenary meeting.

1.22 The delegate of Finland proposed that in the meantime the maximum amount of time should be left for negotiations in the interests of achieving the best possible Plan.

It was so agreed.

1.23 The Chairman further suggested that Committee 5 should send a note to Committee 6 indicating that there would be a list of unsatisfied requirements, so that that Committee could decide at an early date how best to deal with them.

It was so agreed.

2. Recommendation to WARC-87 on the termination of the use of the international working frequency 425 kHz (Documents 4, 6, 7, 10, 13, 15, 32, 43)

2.1 The Chairman proposed that ad hoc Group 4 be established to consider a Recommendation, under the chairmanship of the delegate of the Netherlands.

2.2 The delegates of France, Greece, Spain, Sweden and the United Kingdom expressed their wish to participate in the Group.

It was so agreed.

3. Assignable frequencies (channelling arrangement of the Plans) to be proposed to Committee 6 (Document DT/16)

3.1 The Chairman indicated certain corrections to be made to Annex 1 of Document DT/16. He recalled that it had already been decided in the case of Annex 1 that the first seven channels could be planned for coast stations on a simplex basis with a limited range. As for the band 450 - 461 kHz the international ship channel would use the frequency 454 kHz, and 460.5 kHz and 461 kHz would be used as ship station frequencies in duplex channels. There would be four digital selective calling channels, leaving the remaining frequencies for inter-ship channels in that band.

3.2 The delegate of France drew the Committee's attention to Document 16 in which his Administration was proposing a Recommendation to the WARC-87 regarding two frequencies in the 2 045 - 2 160 kHz band.

3.3 The delegate of Greece said that some of the priority assignments which should have full day and night protection were situated very close to the 512 kHz frequency, an auxiliary calling frequency. The result might be to render both frequencies useless.

3.4 The delegate of Sweden said that it might be difficult to satisfy requirements and at the same time provide better protection for the 512 kHz frequency.

3.5 The Chairman said that the problem would be considered in the Planning Group.

3.6 The delegate of Denmark suggested that the first frequency 2 061.4 in Annex 2 should be assigned to the first ship channel 241, the second ship station frequency 2 064.4 to the next channel 242 and so on for all the ship station frequencies until the last ship station frequency 2 139.4 which could be assigned to channel 267. The first ship station frequency 2 061.4 could then be reassigned to channel 268, while channel 269 would have the next ship station frequency 2 062.4 and so on up to channel 294 which would have ship station frequency 2 139.4.

3.7 The Chairman said he felt that that channelling rearrangement might be adopted for the second round.

It was so agreed.

Finland reserved, however, the right to revert to this question.

4. Identification of the matters not yet dealt with in Committee 5

4.1 The delegate of France drew attention to Document 16 in which his Administration proposed the provision of 30 two-frequency channels instead of the existing 27.

At the Chairman's suggestion it was agreed that the matter should be included on the agenda of the next meeting of the Committee.

5. Information to be included in the Plans (Document DT/15)

5.1 The representative of the IFRB said that in Annex 1 of Document DT/15 it was proposed to add in column 3 a symbol designating a geographical area in which the station was located. In the case of column 9, Committee 4 had used in paragraph 1.6 of Document 60 the words "minimum usable field strength" which had been queried by the Editorial Committee. The same observation applied to column 3 in Annex 2.

5.2 The delegate of the Federal Republic of Germany said that the ad hoc Group of Committee 6 had suggested that the words "minimum usable field strength" should be replaced by "minimum field strength to be protected". The question of the type of transmitting power to be indicated in column 9 would be discussed in Committee 4.

5.3 The delegate of the USSR drew attention to the fact that the title of Annex 1 did not correspond fully to the text appearing in the agenda of the Conference in paragraph 2.1.1 of Document 1.

The meeting rose at 1710 hours.

The Secretary: The Chairman:

G. KOVACS T. BØE

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 109-E
8 March 1985
Original: English

COMMITTEE 6

NOTE FROM CHAIRMAN OF COMMITTEE 5

TO COMMITTEE 6

Committee 5 decided, on the basis of the provisions of RR 4358-4364, not to plan the first 5 channels mentioned in paragraph c) of Appendix 2 to Resolution No. 704 (MOB-83) (assigned frequencies 2 046.4, 2 049.4, 2 052.4, 2 055.4 and 2 058.4 kHz).

Committee 6 is thus required to deal with Document 16 consequently as stated in Document 36.

T. BØE
Chairman of Committee 5

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 2 to
Document 110-E
13 March 1985
Original: French/
English/
Spanish

AMENDMENTS TO THE

REPORT OF COMMITTEE 2 TO THE PLENARY MEETING

Following the oral report by the Chairman of Committee 2 to the 5th Plenary Meeting, the following changes should be made in the Annex to Document 110:

Section 1

Insert MOROCCO (Kingdom of)

Section 3

Delete MOROCCO (Kingdom of)

J.F. PATRICIO
Chairman of Committee 2

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 1 to
Document 110-E
12 March 1985
Original : French

AMENDMENTS TO THE

REPORT OF COMMITTEE 2 TO THE PLENARY MEETING

Following the oral report by the Chairman of Committee 2 to the 4th Plenary Meeting, the following changes should be made in the Annex to Document 110 :

Section 1

Insert ALGERIA (People's Democratic Republic of)

AUSTRIA

Section 3

Delete ALGERIA (People's Democratic Republic of)

AUSTRIA

J.F. PATRICIO
Chairman of Committee 2

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 110-E
8 March 1985
Original : French

PLENARY MEETING

REPORT OF COMMITTEE 2 TO THE PLENARY MEETING

(CREDENTIALS)

1. Terms of reference of the Committee

The terms of reference of the Committee are set out in Document 33.

2. Meetings

The Committee met twice, on 27 February and 8 March 1985.

At its first meeting, it set up a Working Group consisting of the Chairman and Vice-Chairman of the Committee, one delegate from the Republic of Malta, one delegate from the Czechoslovak Socialist Republic and one delegate from the Socialist Federal Republic of Yugoslavia to verify delegations' credentials in accordance with Article 67 of the International Telecommunication Convention, Nairobi (1982).

3. Conclusions

The conclusions reached by the Committee are reproduced in the Annex attached hereto and submitted to the Plenary Meeting for approval.

4. Final remark

The Committee recommends that the Plenary Meeting authorise the Chairman and the other members of the Working Group to verify the credentials received after the date of the present Report and to report to the Plenary Meeting on the matter.

J.F. PATRICIO
Chairman of Committee 2

Annex : 1

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A N N E X

1. Credentials found to be in order, deposited by the delegations of countries having the right to vote

ALBANIA (Socialist People's Republic of)
GERMANY (Federal Republic of)
ANGOLA (People's Republic of)
SAUDI ARABIA (Kingdom of)
BAHRAIN (State of)
BELGIUM
BENIN (People's Republic of)
BULGARIA (People's Republic of)
CAMEROON (Republic of)
CYPRUS (Republic of)
IVORY COAST (Republic of the)
DENMARK
EGYPT (Arab Republic of)
SPAIN
FINLAND
FRANCE
GHANA
GREECE
HUNGARIAN PEOPLE'S REPUBLIC
IRAQ (Republic of)
IRELAND
ISRAEL (State of)
ITALY
KENYA (Republic of)
KUWAIT (State of)
LIBYA (Socialist People's Libyan Arab Jamahiriya)
MADAGASCAR (Democratic Republic of)
MALTA (Republic of)
MONACO
NORWAY
OMAN (Sultanate of)
NETHERLANDS (Kingdom of the)
POLAND (People's Republic of)
PORTUGAL
QATAR (State of)
GERMAN DEMOCRATIC REPUBLIC
ROMANIA (Socialist Republic of)
UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
SWEDEN
SWITZERLAND (Confederation of)
CZECHOSLOVAK SOCIALIST REPUBLIC
TUNISIA
TURKEY
UNION OF SOVIET SOCIALIST REPUBLICS
YUGOSLAVIA (Socialist Federal Republic of)

Conclusion : The delegations of these countries are entitled to vote and to sign the Final Acts.

2. Credentials found to be in order, deposited by the delegations of countries which do not have the right to vote (see Document 29 Rev.)

GUINEA (Republic of)
CHAD (Republic of the)

Conclusion : The delegations of these countries are not entitled to vote, but may sign the Final Acts.

3. Delegations attending the Conference which have not deposited credentials

ALGERIA (Algerian Democratic and Popular Republic) (credentials announced)
AUSTRIA (credentials announced)
BURUNDI (Republic of)
LEBANON
MOROCCO (Kingdom of)
TOGOLESE REPUBLIC (credentials announced)
ZAIRE (Republic of)

Conclusion : The delegations of these countries are entitled neither to vote nor to sign the Final Acts

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 2 to
Document 111-E
12 March 1985
Original: English

COMMITTEE 7

Please, make the following corrections on page 4 (Annex 3) of Document 111:

- add *** to the title;

- add a corresponding footnote:

"*** A coast station must have the right to transmit on its own assigned working frequency (paired) even when it communicates with a ship station transmitting on one of the frequencies for Morse radiotelegraphy (454, 458, 468 and 480 kHz."

T. BØE
Chairman of Committee 5

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 1 to
Document 111-E
9 March 1985
Original: English

COMMITTEE 7

Please replace pages 3, 4 and 5 of Document 111 by the attached pages.

T. BØE
Chairman of Committee 5

Annex: 3 pages

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ANNEX 2

Information included in the columns of the Plan (Region 1) for the aeronautical radionavigation service (radiobeacons) in the bands 415 - 435 kHz and 510 - 526.5 kHz

Column

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and necessary class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)[1]

    (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

---

[1] The type of power to be notified under Article 12 of the Radio Regulations shall be the carrier power determined by the NON emission of the radiobeacon.

ANNEX 3

ANNEX TO RECOMMENDATION No. COM 6/A

Channelling arrangement of the frequency bands between 415 - 526.5 kHz for the maritime mobile service

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship Station (kHz)
1	435.5	475.5	41	516.5	467	60	415.5	
2	436	476	42	517	467.5	61	416.0	
3	436.5	476.5	43	519	460.5	62	416.5	
4	437	477	44	519.5	468.5	63	417.0	
5	437.5	477.5	45	520	469	64	417.5	
6	438	478	46	520.5	469.5	65	418.0	
7	438.5	478.5	47	521	470	66	418.5	
8	439	479	48	521.5	470.5	67	419.0	
9	439.5	479.5	49	522	471	68	419.5	
10	440	461	50	522.5	471.5	69	420.0	
11	440.5	480.5	51	523	472	70	420.5	454.0
12	441	481	52	523.5	472.5	71	421.0	
13	441.5	481.5	53	524	473	72	421.5	
14	442	482	54	524.5	473.5	73	422.0	468.0
15	442.5	482.5	55	525	474	74	422.5	
16	443	483	56	525.5	474.5	75	423.0	480.0
17	443.5	483.5	57	526	475	76	423.5	
18	444	484				77	424.0	458.0
19	444.5	484.5				78	424.5	
20	445	485				79	425.0	
21	445.5	485.5	101	450	450	80	425.5	
22	446	486	102	450.5	450.5	81	426.0	
23	446.5	486.5	103	451	451	82	426.5	
24	447	487	104	451.5	451.5	83	427.0	
25	447.5	487.5	105	452	452	84	427.5	
26	448	488	106	452.5	452.5	85	428.0	
27	448.5	488.5	107	453	453	86	428.5	
28	449	489	108		453.5**	87	429.0	
29	449.5	489.5	109		454.5**	88	429.5	
30	510.5	461.5	110		455.0**	89	430.0	
31	511	462	111	455.5*	458.5*	90	430.5	
32	511.5	462.5	112	456.0*	459.0*	91	431.0	
33	512.5	463	113	456.5*	459.5*	92	431.5	
34	513	463.5	114	457.0*	460.0*	93	432.0	
35	513.5	464	115		457.5**	94	432.5	
36	514	464.5				95	433.0	
37	514.5	465				96	433.5	
38	515	465.5				97	434.0	
39	515.5	466				98	434.5	
40	516	466.5						

* For DSC use. Channel No. 111 for international use, channels Nos. 112-114 for national use. (See also Resolution No. COM 5/1.)

** For inter-ship use

ANNEX 3 (cont'd)

ANNEX TO RECOMMENDATION No. COM 6/B

Channelling arrangement of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz used for narrow-band direct-printing telegraphy by the maritime mobile service

Channel No.	Coast station (kHz)	Ship station (kHz)
201	1607	2142
202	1607.5	2142.5
203	1608	2143
204	1608.5	2143.5
205	1609	2144
206	1609.5	2144.5
207	1610	2145
208	1610.5	2145.5
209	1611	2146
210	1611.5	2146.5
211	1612	2147
212	1612.5	2147.5
213	1613	2148
214	1613.5	2148.5
215	1614	2149
216	1614.5	2149.5
217	1615	2150
218	1615.5	2150.5
219	1616	2151
220	1616.5	2151.5
221	1617	2152
222	1617.5	2152.5
223	1618	2153
224	1618.5	2153.5
225	1619	2154
226	1619.5	2154.5
227	1620	2155
228	1620.5	2155.5

Channel No.	Coast station (DSC)* (kHz)	Ship station (DSC)* (kHz)
229	1621	2156
230	1621.5	2156.5
231	1622	2157
232	1622.5	2157.5
233	1623	2158
234	1623.5	2158.5
235	1624	2159
236	1624.5	2159.5

* See Resolution No. COM 5/1.

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 111-E
8 March 1985
Original: English

COMMITTEE 7

FIRST SERIES OF TEXTS FROM COMMITTEE 5 TO THE EDITORIAL COMMITTEE

The attached texts in Annexes 1, 2 ands 3, adopted by Committee 5 are hereby submitted to the Editorial Committee

T. BØE
Chairman of Committee 5

Annexes: 3

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX 1

Information included in the columns of the Plan (Region 1) for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Column

1. Assigned frequency (kHz)/(carrier frequency (kHz) for J3E)
2. Channel number
3. Country symbol
4. Transmitting coast station name
5. Symbol of the geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)
6. Longitude and latitude (degrees and minutes) of the transmitting station
7. Service area:

   7a) Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area; or

   7b) Longitude and latitude (degrees and minutes) of (maximum six) points limiting the service area
8. Nature of service
9. Necessary bandwidth and class of emission
10. Necessary transmitting power:

    10A: effective monopole radiated power (e.m.r.p.) (dBW)

    (calculated value on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

    10B: power supplied to the antenna transmission line (dBW)

    (calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
    e.m.r.p. + 4 dB (for the 2 MHz band)
11. Antenna characteristics

    11A: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

    11B: maximum antenna gain (dB)

    11C: angular width of the main lobe (degrees)
12. Normal hours of operation (UTC) of frequency assignment
13. Remarks

ANNEX 2

Information included in the columns of the Plan (Region 1) for the aeronautical radionavigation service (radiobeacons) in the bands 415 - 435 kHz and 510 - 526.5 kHz

Column

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and necessary class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)

    (value calculated on the basis of the [minimum usable field strength] and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

ANNEX 3

ANNEX TO RECOMMENDATION No. COM 6/A

Channelling arrangement of the frequency bands between 415 - 526.5 kHz for the maritime mobile service

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship Station (kHz)
1	435.5	475.5	41	516.5	467	60	415.5	
2	436	476	42	517	467.5	61	416.0	
3	436.5	476.5	43	519	460.5	62	416.5	
4	437	477	44	519.5	468.5	63	417.0	
5	437.5	477.5	45	520	469	64	417.5	
6	438	478	46	520.5	469.5	65	418.0	
7	438.5	478.5	47	521	470	66	418.5	
8	439	479	48	521.5	470.5	67	419.0	
9	439.5	479.5	49	522	471	68	419.5	
10	440	461	50	522.5	471.5	69	420.0	
11	440.5	480.5	51	523	472	70	420.5	454.0
12	441	481	52	523.5	472.5	71	421.0	
13	441.5	481.5	53	524	473	72	421.5	
14	442	482	54	524.5	473.5	73	422.0	468.0
15	442.5	482.5	55	525	474	74	422.5	
16	443	483	56	525.5	474.5	75	423.0	480.0
17	443.5	483.5	57	526	475	76	423.5	
18	444	484				77	424.0	458.0
19	444.5	484.5				78	424.5	
20	445	485				79	425.0	
21	445.5	485.5	101	450	450	80	425.5	
22	446	486	102	450.5	450.5	81	426.0	
23	446.5	486.5	103	451	451	82	426.5	
24	447	487	104	451.5	451.5	83	427.0	
25	447.5	487.5	105	452	452	84	427.5	
26	448	488	106	452.5	452.5	85	428.0	
27	448.5	488.5	107	453	453	86	428.5	
28	449	489	108		453.5**	87	429.0	
29	449.5	489.5	109		454.5**	88	429.5	
30	510.5	461.5	110		455.0**	89	430.0	
31	511	462	111	455.5*		90	430.5	
32	511.5	462.5	112	456.0*		91	431.0	
33	512.5	463	113	456.5*		92	431.5	
34	513	463.5	114	457.0*		93	432.0	
35	513.5	464	115		457.5**	94	432.5	
36	514	464.5	116		458.5*	95	433.0	
37	514.5	465	117		459.0*	96	433.5	
38	515	465.5	118		459.5*	97	434.0	
39	515.5	466	119		460.0*	98	434.5	
40	516	466.5						

* For DSC use
** For inter-ship use

ANNEX 3 (cont'd)

ANNEX TO RECOMMENDATION No. COM 6/B

Channelling arrangement of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz used for narrow-band direct-printing telegraphy by the maritime mobile service

Channel No.	Coast station (kHz)	Ship station (kHz)
201	1607	2142
202	1607.5	2142.5
203	1608	2143
204	1608.5	2143.5
205	1609	2144
206	1609.5	2144.5
207	1610	2145
208	1610.5	2145.5
209	1611	2146
210	1611.5	2146.5
211	1612	2147
212	1612.5	2147.5
213	1613	2148
214	1613.5	2148.5
215	1614	2149
216	1614.5	2149.5
217	1615	2150
218	1615.5	2150.5
219	1616	2151
220	1616.5	2151.5
221	1617	2152
222	1617.5	2152.5
223	1618	2153
224	1618.5	2153.5
225	1619	2154
226	1619.5	2154.5
227	1620	2155
228	1620.5	2155.5

Channel No.	Coast station (DSC) (kHz)	Ship station (DSC) (kHz)
229	1621	2156
230	1621.5	2156.5
231	1622	2157
232	1622.5	2157.5
233	1623	2158
234	1623.5	2158.5
235	1624	2159
236	1624.5	2159.5

ANNEX 3 (cont'd)

ANNEX TO RECOMMENDATION No. COM 6/C

Channelling arrangement of frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz used for single sideband radiotelephony by the maritime mobile service

Channel No.	Coast station assigned fr. (carrier fr.) (kHz)	Ship station assigned fr. (carrier fr.) (kHz)
241	1636.4(1635)	2061.4(2060)
242	1639.4(1638)	2064.4(2063)
243	1642.4(1641)	2067.4(2066)
244	1645.4(1644)	2070.4(2069)
245	1648.4(1647)	2073.4(2072)
246	1651.4(1650)	2076.4(2075)
247	1654.4(1653)	2079.4(2078)
248	1657.4(1656)	2082.4(2081)
249	1660.4(1659)	2085.4(2084)
250	1663.4(1662)	2088.4(2087)
251	1666.4(1665)	2091.4(2090)
252	1669.4(1668)	2094.4(2093)
253	1672.4(1671)	2097.4(2096)
254	1675.4(1674)	2100.4(2099)
255	1678.4(1677)	2103.4(2102)
256	1681.4(1680)	2106.4(2105)
257	1684.4(1683)	2109.4(2108)
258	1687.4(1686)	2112.4(2111)
259	1690.4(1689)	2115.4(2114)
260	1693.4(1692)	2118.4(2117)
261	1696.4(1695)	2121.4(2120)
262	1699.4(1698)	2124.4(2123)
263	1702.4(1701)	2127.4(2126)
264	1705.4(1704)	2130.4(2129)
265	1708.4(1707)	2133.4(2132)
266	1711.4(1710)	2136.4(2135)
267	1714.4(1713)	2139.4(2138)
268	1717.4(1716)	2061.4(2060)
269	1720.4(1719)	2064.4(2063)
270	1723.4(1722)	2067.4(2066)

Channel No.	Coast station assigned fr. (carrier fr.) (kHz)	Ship station assigned fr.
271	1726.4(1725)	2070.4(2069)
272	1729.4(1728)	2073.4(2072)
273	1732.4(1731)	2076.4(2075)
274	1735.4(1734)	2079.4(2078)
275	1738.4(1737)	2082.4(2081)
276	1741.4(1740)	2085.4(2084)
277	1744.4(1743)	2088.4(2087)
278	1747.4(1746)	2091.4(2090)
279	1750.4(1749)	2094.4(2093)
280	1753.4(1752)	2097.4(2096)
281	1756.4(1755)	2100.4(2099)
282	1759.4(1758)	2103.4(2102)
283	1762.4(1761)	2106.4(2105)
284	1765.4(1764)	2109.4(2108)
285	1768.4(1767)	2112.4(2111)
286	1771.4(1770)	2115.4(2114)
287	1774.4(1773)	2118.4(2117)
288	1777.4(1776)	2121.4(2120)
289	1780.4(1779)	2124.4(2123)
290	1783.4(1782)	2127.4(2126)
291	1786.4(1785)	2130.4(2129)
292	1789.4(1788)	2133.4(2132)
293	1792.4(1791)	2136.4(2135)
294	1795.4(1794)	2139.4(2138)
295	1798.4(1797)	2061.4(2060)

ANNEX 3 (cont'd)

ANNEX TO [RECOMMENDATION No. COM 6/]

Channelling arrangement of the frequency bands 415 - 435 kHz and 510 - 526.5 kHz for the aeronautical radionavigation service (radiobeacons)*

Channel No.	Frequency (kHz)
1	416
2	417
3	418
4	419
5	420
6	421
7	422
8	423
9	424
10	425
11	426
12	427
13	428
14	429
15	430
16	431
17	432
18	433
19	434

Channel No.	Frequency (kHz)
21	511
22	513
23	514
24	515
25	516
26	517
27	519
28	520
29	521
30	522
31	523
32	524
33	525

* Interleaved channels spaced at 0.5 kHz may also be used provided that this use does not adversely affect the assignment in the Plan in integer multiples of 1 kHz. However the interleave use of 517.5 and 518.5 kHz is not permitted.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 112-E
8 March 1985
Original: English

COMMITTEE 7

SECOND SERIES OF TEXTS SUBMITTED BY COMMITTEE 6

TO THE EDITORIAL COMMITTEE

The texts in the four annexes hereto were adopted by Committee 6 and are submitted to the Editorial Committee.

S. CHALLO
Chairman of Committee 6

Annexes: 4

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX 1

ARTICLE 4

Procedure for modifications to the Plans

SECTION A - GENERAL

1. When a Contracting Member proposes to make a modification to a Plan, that is:

a) to modify the characteristics to a station of the maritime mobile service or the aeronautical radionavigation service shown in the appropriate Plan, whether or not the station has been brought into use; or

b) to bring into use an assignment to a station of the maritime mobile service or the aeronautical radionavigation service not appearing in any of the appropriate Plans; or

c) to modify the characteristics of a frequency assignment to a station of the maritime mobile service or the aeronautical radionavigation service for which the procedure in this article has been successfully applied, whether or not the station has been brought into use; or

d) to cancel from the appropriate Plan a frequency assignment to a station of the maritime mobile service or the aeronautical radionavigation service;

the following procedure shall be applied before any notification is made under the provisions of Article 12 of the Radio Regulations (see Article 5 of this Agreement).

SECTION B - PROCEDURE FOR THE MARITIME MOBILE SERVICE

Procedure for modifying the characteristics of an assignment or the bringing into use of a new assignment

2. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.

3. For the purposes of this procedure these other administrations shall be any which have:

a) assignments in the Plan or Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex [ ] to this Agreement;

b) assignments recorded in the Master Register for stations of services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a primary or permitted basis which may be affected according to the application of the provisions of No. 1241 of the Radio Regulations together with the technical criteria contained in Annex [ ].

4. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall so inform the IFRB and shall furnish the characteristics listed in Appendix 1 to the Radio Regulations, and shall also indicate to the IFRB the names of the administrations with which it considers agreement should be sought and of those with which agreement has been reached.

4bis) The IFRB shall examine the information received from the view point of its conformity with the channelling arrangement contained in annexes [ ] to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

5. The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in § 3 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board shall at the same time inform those administrations having assignments which it considers, in accordance with § 3, may be affected.

6. An administration which considers that it should have been included in the list of administrations whose frequency assignments may be affected shall inform the administration proposing the modification or addition to the Plan in question and the IFRB. At the same time it shall, giving its reasons for so doing, request the IFRB to include its name in the list.

7. If an administration, which has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in § 5, the IFRB shall send a reminder to the administration concerned inviting it to urgently reply to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

8. If in seeking agreement an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administration with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of § 3 and the subsequent procedure for those administrations.

9. Following expiry of the period specified in § 7, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

10. If no agreement is reached between the administrations concerned, the IFRB shall make any study of the matter that may be requested by one or more of those administrations; the Board shall inform them of the results of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

11. An administration before initiating this procedure and at any stage thereof may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

12. If after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also § 30).

13. If after application of the procedure described in this section the agreement of the administration concerned can not be reached, the two administrations may resort to one of the methods for the settlement of disputes described in Article 50 of the Convention or they may agree to apply the Optional Additional Protocol to the Convention.

14. The proposed assignment may, despite continuing disagreement, be notified in accordance with Article 12 of the Radio Regulations. However, the relevant provisions of Article 5 of the Agreement shall then be applied.

SECTION C - PROCEDURE FOR THE AERONAUTICAL RADIONAVIGATION SERVICE

Procedure for modifying the characteristics of an assignment or the bringing into use of a new assignment

15. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.

16. For the purposes of this procedure these other administrations shall be those which have assignments in the Plan or Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex [ ] to this Agreement.

17. Where any ICAO coordination of the operational aspects of a proposed assignment is appropriate this should be completed before commencement of the following procedure.

18. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall so inform the IFRB and shall furnish the characteristics listed in Appendix 1 to the Radio Regulations, and shall also indicate to the IFRB the names of the administrations with which it considers agreement should be sought and of those with which agreement has been reached.

18bis) The IFRB shall examine the information received from the view point of its conformity with the channelling arrangement contained in annexes [ ] to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

19. The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in § 16 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board shall at the same time inform those administrations having assignments which it considers, in accordance with § 16, may be affected.

20. An administration which considers that it should have been included in the list of administrations whose frequency assignments may be affected shall inform the administration proposing the modification or addition to the Plan in question and the IFRB. At the same time it shall, giving its reasons for so doing, request the IFRB to include its name in the list.

21. If an administration which has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in § 19, the IFRB shall send a reminder to the administration concerned inviting it to urgently reply to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

22. If in seeking agreement an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administraiton with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of § 16 and the subsequent procedure for those administrations.

23. Following expiry of the period specified in § 21, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

24. If no agreement is reached between the administrations concerned, the IFRB shall make any study of the matter that may be requested by one or more of those administrations; the Board shall inform them of the results of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

25. An administration before initiating this procedure and at any stage thereof may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

26. If after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also § 30).

27. If after application of the procedure described in this section the agreement of the administration concerned can not be reached, the two administrations may resort to one of the methods for the settlement of disputes described in Article 50 of the Convention or they may agree to apply the Optional Additional Protocol to the Convention.

28. The proposed assignment may, despite continuing disagreement, be notified in accordance with Article 12 of the Radio Regulations, however, the relevant provisions of Article 5 of the Agreement shall then be applied.

SECTION D - CANCELLATION OF ASSIGNMENTS

29. An administration proposing to cancel an assignment in any of the Plans, whether or not as a result of a modification (for instance a change of frequency), shall immediately so inform the IFRB. The Board shall publish this information in a special section of the weekly circular as a modification to the Plan.

30. If, after a period of two years following the date of entry of an assignment in the Plan, as a result of the application of the procedure contained in this Article, the IFRB has not received a notice relating to its bringing into use, that assignment shall be cancelled from the Plan. Before taking such action, the Board shall consult with the administration concerned on the appropriateness of such a deletion and if the circumstances so warrant, the cancellation may be postponed for a maximum period of six months.

30bis. Every three years, the Board shall consult administrations of Contracting Members with a view to drawing their attention to Recommendation No. COM 6/D and to request them to cancel assignments appearing in the Plan adopted by the Conference and which are no longer required; the Board shall also inform Contracting Members of the results of these consultations.

SECTION E - MAINTENANCE AND PUBLICATION OF RECORDS

31. The IFRB shall maintain an up-to-date master copy of the Plans and their Appendices, taking account of the application of the procedure specified in this Article; to this end the IFRB shall periodically prepare recapitulative documents listing all amendments made to their Plans as a result of modifications made in accordance with the procedures of this Article, the addition of new assignments in conformity with this Agreement, and any cancellations of which the Board has been notified.

32. The Secretary-General shall publish an up-to-date version of each Plan in an appropriate form as and when circumstances justify and in any case every five years.

ARTICLE 5

Notification of frequency assignments

33. Whenever an administration intends to bring into use an assignment in conformity with this Agreement, it shall notify the assignment to the IFRB in accordance with the provisions of Article 12 of the Radio Regulations.

34. Notices of frequency assignments in conformity with this Agreement shall not be examined by the Board under No. 1241 with Respect to frequency assignments recorded in the Master Register on behalf of Contracting Members for stations of primary or permitted services of administrations, Parties to the Agreement.

35. Notices of frequency assignments notified under §§ 14 and 28 of Article 4 for which it has not been possible to reach agreement shall be treated as follows:

a) when the disagreement of the administration concerned is with respect to an assignment in conformity with this Agreement, the notified assignment shall be recorded in the Master Register with a special remark indicating that the entry has been made subject to not causing harmful interference to the assignment of the administration with which agreement has not been reached;

b) when the disagreement of the administration concerned is with respect to an assignment recorded in the Master Register for a station of a primary or permitted service, the notified assignment shall be recorded in the MIFR only after the application of the provisions of No. 1255 of the Radio Regulations.

36. In relations between Contracting Members all frequency assignments in conformity with this Agreement and recorded in the Master Register shall be considered to have the same status irrespective of the date or dates entered in Column 2 for such assignments.

ARTICLE 6

Procedure applicable to new assignments in the non-planned permitted and primary services

37. In order to permit the compatible development of the primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, the IFRB shall examine in accordance with No. 1245 of the Radio Regulations the frequency assignments of these other services notified by Contracting Members. To this effect the following provisions shall be applied.

38. The Board shall examine the frequency assignment with respect to the probability of harmful interference to the service rendered or to be rendered by a frequency assignment:

a) which is already recorded in the Master Register and bears a date in Column 2a; or

b) which is recorded in the Master Register in accordance with No. 1240 of the Radio Regulations and bears a date in Column 2b, but has not, in fact, caused harmful interference to any frequency assignment with a date in Column 2a or to any assignment in conformity with No. 1250 with an earlier date in Column 2b;

c) which is in conformity with this Agreement but has not yet been notified in accordance with Article 5;

d) which was published in a special section of the weekly IFRB circular in accordance with § 5 of Article 4.

39. In the event of an unfavourable finding relating to a frequency assignment described in §§ 38 c) or 38 d), if the administration resubmits the notice under No. 1255 of the Radio Regulations the period of two months specified in No. 1259 shall not start until the assignment which the basis for the unfavourable finding is brought into service.

40. For the purpose of these examinations the Board shall apply the technical criteria contained in Annex [ ] to the Agreement.

ANNEX 2

DRAFT RESOLUTION No. COM6/1 (MM)

Relating to the Application of Articles 4, 5 and 6 of the Agreement Before the Entry into Force of the Agreement

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), (Geneva, 1985),

considering

a) that, in accordance with its agenda, it has adopted an Agreement and [2] associated Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that some administrations may need to modify the characteristics of assignments appearing in the Plans or to add new assignments to the Plans or to notify assignments included in the Plans before the Agreement enters into force;

c) that some administrations may need to notify frequency assignments in the fixed service or the land mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz before the Agreement enters into force;

d) that means must be provided, before the date of entry into force of the Agreement, to permit modifications to the Plans and to ensure that the proposed uses of the primary and permitted services in the relevant bands are compatible with the Plans;

resolves

1. that, pending the entry into force of the Agreement, administrations and the IFRB shall apply the procedures set out in Article 4 of the Agreement for the modification of the Plans;

2. that, during the period concerned, administrations and the IFRB shall apply the procedures set out in Articles 5 and 6 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands together with the provisions of resolves 3;

3. that the temporary provisions in the Annex to this Resolution shall be applicable during the period in question.

ANNEX TO RESOLUTION No. COM 6/1

Provisional Procedure Applicable to Frequency Assignments Notified under the Terms of Article 5 of the Regional Agreement Prior to the Date of Entry into Force of the Agreement

1. When an administration proposes to modify the characteristics of an assignment entered in the Master Register in order to make it consistent with the Plan, or when an administration wishes to bring into service an assignment in conformity with the Plan, it shall notify that assignment in accordance with Article 5 of the Agreement.

2. The IFRB shall examine such notifications relating to assignments entered in the Master Register on the date of receipt of the notification and shall inform the notifying administration of any incompatibility with assignments of other administrations it may establish.

3. The notifying adminstration shall endeavour to secure the agreement of the administrations identified under the terms of paragraph 2 above.

4. When the agreement of the administrations concerned has been obtained, the assignment may be brought into service in accordance with the Plan, and, if necessary, the corresponding assignment which has been the subject of the modification shall be deleted from the Master Register.

ANNEX 3

DRAFT RESOLUTION No. COM 6/2 (MM)

Concerning the Updating of the Master International Frequency Register with Regard to Assignments to Stations of the Planned Services and in the Planned Frequency Bands to Permit the Entry into Force of the Agreement and Associated Plans

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, in accordance with the Agreement prepared by the present Conference, the Contracting Members have adopted [two] Plans for their maritime mobile service and aeronautical radionavigation service stations in the frequency bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that under the provisions of Article 5 of the Agreement prepared by the present Conference, the Contracting Members are required to notify the IFRB of frequency assignments to stations of the planned services before they are brought into operation;

c) that the administrations of Contracting Members and the IFRB should have a proper instrument for implementing with the least possible difficulty the Plans agreed at the present Conference;

resolves

1. that, within 90 days from the date on which the present Conference ends, the IFRB shall send to each administration a list of the assignments to stations of the planned service assignments entered on its behalf in the Master International Frequency Register in the planned bands. It shall at the same time send another list of the assignments entered on its behalf in the Plans adopted at the present Conference;

2. that when it sends these lists the IFRB shall request administrations to return within 90 days a list showing the correspondence between the assignments entered in the Plans and those entered in the Master International Frequency Register;

3. that any assignment included in the Master International Frequency Register for the maritime mobile and aeronautical radionavigation services in the planned bands that has no corresponding assignment in the Plan shall be cancelled in the Register on the date of entry into force of the Agreement;

4. that, 90 days prior to the entry into force of the Regional Agreement, administrations shall notify the IFRB of the assignments in conformity with the Plan that are intended to replace the corresponding assignments entered in the Master Register;

5. that if, after examining the frequency assignments notified by administrations under the terms of paragraph 4 of this Resolution, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in column 2;

6. that, 30 days after the date of entry into force of the Regional Agreement, assignments entered in the Master Register for which the IFRB has not received a notice concerning the entry into service of the corresponding assignment in the Plan shall be retained in the Master Register with a remark in the appropriate column to show that the assignment in question is not entitled to any protection in relation to assignments that are in conformity with the Plan and must not cause any harmful interference to such assignments. Each administration concerned shall be advised of such action;

7. that if upon expiry of the above-mentioned period the Board receives a notice under the terms of paragraph 4 above, it shall cancel the corresponding assignment in the Master Register;

invites the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

ANNEX 4

DRAFT RESOLUTION No. COM 6/3 (MM)

Relating to the Transfer of Frequency Assignments to Stations of the Maritime Mobile Service Operating in the Bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference, Geneva, 1979, allocated the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz to the radiolocation service and the band 1 810 - 1 850 kHz to the amateur service;

b) that the bands mentioned in paragraph a) above were formerly allocated to the maritime mobile service;

c) that, in Resolution No. 38, the World Administrative Radio Conference, Geneva, 1979, resolved that on the date of entry into force of a frequency assignment plan for the maritime mobile service in the band 1 606.5 - 2 850 kHz the operations of fixed and mobile stations in Region 1 should cease in the bands mentioned in paragraph a) above, except with regard to the countries and bands mentioned in Nos. 485, 490, 491, 493 and 499 of the Radio Regulations;

d) that in the same Resolution the Conference resolved that replacement frequencies for stations of the maritime mobile service should be provided in the Plan referred to in paragraph c) above, together with the arrangements for their implementation;

e) that the present Conference adopted a Regional Agreement to which are annexed frequency plans for stations of the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz which contain the replacement frequencies mentioned above;

resolves

1. that, 90 days before the date of entry into force of the Regional Agreement, the administrations shall notify the IFRB of the assignments in conformity with the Plan which are to replace the assignments to stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - -1 850 kHz and 2 160 - 2 170 kHz;

2. that the provisions of Resolution No. COM6/1 relating to the provisional procedure to be applied during the interval between the end of the present Conference and the date of entry into force of the Regional Agreement shall be applicable with regard to the transfer of assignments to stations of the maritime mobile service operating in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz;

3. that if after examination of frequency assignments notified by administrations under the terms of this Resolution, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in column 2;

4. that, on the date of entry into force of the frequency assignment Plan for stations of the maritime mobile service annexed to the Regional Agreement adopted by the present Conference, the continued use of the frequency assignments to stations of the maritime mobile service which have not been transferred in accordance with the provisions of paragraph 1 above shall be only on the basis of No. 342 of the Radio Regulations.

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE PLANNING OF FREQUENCIES FOR MARITIME RADIOBEACONS IN THE EUROPEAN MARITIME AREA
GENEVA, MARCH 1985

EUROP.

Document 1061-E
March 1985
Original : English

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 113-E
March 1985
Original : English

COMMITTEE 2

SUMMARY RECORD

OF THE

SECOND AND LAST MEETING OF COMMITTEE 2

(CREDENTIALS)

(MM-R1 - EMA)

FRIDAY, 8 MARCH 1985 AT 14.30

Chairman : Mr. J.F. PATRICIO (Portugal)

Subjects discussed :	Documents
MM-R1	
1. Summary Record of the First Meeting	46
2. First and second reports of Working Group 2A	49, 79
3. Third (oral) report by the Chairman of Working Group 2A	-
4. Draft report to the Plenary Meeting	DT/19
EMA	
5. Summary Record of the First Meeting	1032
6. First report of Working Group 2A	1033
7. Second (oral) report by the Chairman of Working Group 2A	-
8. Draft report to the Plenary Meeting	DT/1009

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

MM.R1

1. Summary Record of the First Meeting (Document 46)

1.1 The Summary Record of the First Meeting (Document 46) was approved.

2. First and second reports of Working Group 2A (Documents 49 and 79)

2.1 The first and second reports of Working Group 2A were approved.

3. Third (oral) report by the Chairman of Working Group 2A

3.1 The Chairman, speaking as Chairman of Working Group 2A said that the Group had met to examine the credentials deposited by the delegations of the following countries : BENIN (People's Republic of); IRAQ (Republic of); IRELAND; OMAN (Sultanate of); and the GERMAN DEMOCRATIC REPUBLIC; it had found them to be in order.

4. Draft Report to the Plenary Meeting (Document DT/19)

4.1 The Chairman, introducing the Committee's draft report to the Plenary Meeting (Document DT/19), said that as a result of Working Groups 2A's third report, the above mentioned countries should be added to the countries whose credentials had been found to be in order (Annex, Section 1).

Document DT/19, as orally revised, was approved.

EMA

5. Summary Record of the First Meeting (Document 1032)

5.1 The Summary Record of the First Meeting (Document 1032) was approved.

6. First report of Working Group 2A (Document 1033)

6.1 The first report of Working Group 2A was approved.

7. Second (oral) report by the Chairman of Working Group 2A

7.1 The Chairman, speaking as Chairman of Working Group 2A said that the Group had met to examine the credentials deposited by the delegations of the following countries : GREECE; IRELAND and the GERMAN DEMOCRATIC REPUBLIC; it had found them to be in order.

8. Draft Report to the Plenary Meeting (Document DT/1009)

8.1 The Chairman, introducing the Committee's draft report to the Plenary Meeting (Document DT/1009), said that as a result of Working Groups 2A's second report, the above mentioned countries should be added to the countries whose credentials had been found to be in order (Annex Section 1).

Document DT/1009, as orally revised, was approved.

The meeting rose at 15.00 hours

The Secretary :
R. MACHERET

The Chairman :
J.F. PATRICIO

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 114-E
9 March 1985
Original: English

PLENARY MEETING

Note from the Chairman of Committee 6 to the Plenary Meeting

During its fifth meeting on 8 March 1985, Committee 5 decided to insert a new paragraph [paragraph 7bis] in Article 3 of the draft Agreement (see Document 105).

It also decided to modify the text of Article 13 which appears in square brackets in Document 105.

The relevant texts have been communicated to the Editorial Committee (Document 115).

S. CHALLO
Chairman of Committee 6

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

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9 March 1985
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COMMITTEE 7

NOTE FROM THE CHAIRMAN OF COMMITTEE 6
TO THE EDITORIAL COMMITTEE

As indicated in Document 114, Committee 6 has adopted a new paragraph 7bis to Article 3 of the draft Agreement and to modify the text of Article 13.

The relevant texts are enclosed herewith.

S. CHALLO
Chairman of Committee 6

Annex: 1

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ANNEX

7bis In order to avoid mutual interference between stations in the Plan, the administrations shall take all necessary steps to ensure that the frequencies utilized for radiotelephony in the bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are only used within the coverage area specified in the Plan.

ARTICLE 13

Abrogation and Replacement of the Copenhagen Convention, 1948 and the Copenhagen Plan annexed thereto

The present Agreement and the Plan annexed hereto are considered by the Contracting Members to the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948 to be the appropriate instruments to abrogate this Convention and the Plan annexed thereto, which both, in accordance with the provisions of Article 7 of that Convention, shall be abrogated as from the entry into force of the present Agreement and the Plans annexed hereto and replaced by the latter.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 116-E
9 March 1985
Original: English

COMMITTEE 5

REPORT OF THE CHAIRMAN OF AD HOC GROUP 3
TO COMMITTEE 5

The ad hoc Group 3 completed its work on digital selective calling matters.

Draft Resolution No. COM 5/1 and draft Recommendation No. COM 5/B are submitted for approval.

J. BARRANCO ALVAREZ
Chairman of ad hoc Group 3

Annexes: 2

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ANNEX 1

RECOMMENDATION No. COM 5/B (MM)

Relating to the frequency pairs in the bands 435 - 526.5 kHz and 1 606.5 - 2 850 kHz to be used for digital selective calling for national and international purposes

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference for the Mobile Services, Geneva, 1983, could not prepare frequency assignment plans for the bands 435 - 526.5 kHz and 1 606.5 - 2 850 kHz and resolved in Resolution No. 704 (MOB-83) that a Regional Administrative Radio Conference for Region 1 be convened to prepare frequency assignment plans;

b) that this Conference designated frequency pairs in the MF band to be used for digital selective calling for national and international purposes in the band 435 - 526.5 kHz and for national purposes only in the band 1 606.5 - 2 850 kHz (Resolution No. COM 5/1);

c) that the use of frequency pairs for digital selective calling for international use is also of interest for Regions 2 and 3;

recognizing

a) that this Conference could not designate a frequency pair for digital selective calling for international use in the band 1 606.5 - 2 850 kHz;

b) that this Conference could designate frequency pairs for digital selective calling in the band 435 - 526.5 kHz with a seperation of only 3 kHz between coast station and ship station frequencies;

recommends

that the World Administrative Radio Conference for the Mobile Services, planned in 1987, should

1. designate for international use in Regions 2 and 3, the frequency pair for digital selective calling in the band 435 - 526.5 kHz designated by this Conference for international use in Region 1;

2. designate a frequency pair for digital selective calling in the band 1 606.5 - 2 850 kHz for world-wide international use;

3. make provisions in the Radio Regulations for the frequency pairs of digital selective calling for national purposes on a world-wide basis;

invites the CCIR

1. to study the technical problems that may arise from the 3 kHz duplex separation in the digital selective calling channels in the band 435 - 526.5 kHz;

2. to review the appropriate CCIR Recommendations.

ANNEX 2

RESOLUTION No. COM 5/1 (MM)

Relating to the use of calling channels for the digital selective calling system in the bands 435 - 526.5 kHz and 1 606.5 - 1 625 kHz

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, according to Article 62 of the Radio Regulations, a digital selective calling system may be used if it is in full conformity with the relevant CCIR Recommendations;

b) that the CCIR has provided the necessary Recommendations;

c) that the effectiveness of the digital selective calling system requires agreement between administrations with respect to the use of national calling channels which have been provided by this Conference;

d) that the administrations at this Conference agreed to a Distribution Plan (annexed to this Resolution) for the national channels;

invites

administrations which are providing an international public correspondence service to indicate for publication in the list of coast stations the periods of service during which an automatic watch will be maintained on the international and national calling channels;

invites further

administrations which wish to enter into a group in the Distribution Plan, or administrations included in the Plan wishing to make a modification in the Plan, to coordinate as far as possible their proposed changes with other interested and affected administrations which are designated in the group concerned. An administration which has decided to enter into a group or change from a designated group in the Distribution Plan shall inform the Secretary-General of its decision and it shall be published in the Annex to the List of Coast Stations;

instructs the Secretary-General

1. to circulate this Resolution to all administrations which are responsible for coast stations in countries or areas designated in the Distribution Plan in order to obtain their agreement to the Plan or an adjustment of the Plan to meet their needs;

2. in the light of the foregoing consultation with the admnistrations concerned to update the Distribution Plan which is annexed to the List of Coast Stations;

3. that, in advance of the publication of any revision of the Distribution Plan in the List of Coast Stations, any variation in the Plan should be notified through the Operational Bulletin.

ANNEX 1 TO RESOLUTION No. COM 5/1 (MM)

Distribution Plan for national calling channels in the digital selective calling system in the Band 435 - 526.5 kHz by countries and areas

Group 1, Channel No. 112 coast station transmitting frequency 456.0 kHz ship station transmitting frequency 459.0 kHz	
AZORES	MADEIRA
BELGIUM	I. MARION
BENIN	MOROCCO (MEDITERRANEAN)
COMORES	MAURITANIA
CAPE VERDE	NIGERIA
EGYPT	NORWAY
FRANCE	OMAN
FINLAND	PORTUGAL
GIBRALTAR	QATAR
GAMBIA	REUNION
GREECE	SWEDEN (BALTIC)
IRAQ	SUDAN
ICELAND	SENEGAL
JORDAN	SYRIA
KUWAIT	UNITED ARAB EMIRATES
LEBANON	YEMEN A.R.
MAURITIUS	YEMEN (P.D.R. OF)
MONACO	YUGOSLAVIA
MADAGASCAR	ZAIRE

Group 2, Channel No. 113 coast station transmitting frequency 456.5 kHz ship station transmitting frequency 459.5 kHz	
SOUTH AFRICA (REP.)	EQUATORIAL GUINEA
BAHRAIN	GUINEA
BYELORUSSIA	NETHERLANDS
BULGARIA	ITALY
CONGO	ISRAEL
CYPRUS	MALTA
FEDERAL REPUBLIC OF GERMANY (NORTH SEA)	MONGOLIA
DJIBOUTI	SWEDEN (NORTH SEA)
DENMARK	SEYCHELLES
SPAIN (CANARY ISLANDS INCLUDED)	SOMALIA
ETHIOPIA	SIERRA LEONE
GABON	SAO TOME AND PRINCIPE
GUINEA-BISSAU	TOGO
	UKRAINE
	USSR

Group 3, Channel No. 114 coast station transmitting frequency 457.0 kHz ship station transmitting frequency 460.0 kHz	
ANGOLA	KENYA
ALBANIA	LIBERIA
ALGERIA	LIBYA
SAUDI ARABIA	MOZAMBIQUE
CAMEROON	MOROCCO (ATLANTIC)
ARCHIPELAGO CROZET	NAMIBIA
IVORY COAST	POLAND
FEDERAL REPUBLIC OF GERMANY (BALTIC)	ROMANIA
GERMAN DEMOCRATIC REPUBLIC	ST. HELENA
UNITED KINGDOM	CHAD
GHANA	TUNISIA
IRELAND	TURKEY
IRAQ	TANZANIA
	USSR

ANNEX 2 TO RESOLUTION No. COM 5/1

Distribution Plan for national calling channels in the digital selective calling system in the band 1 606.5 - 2 160 kHz by countries and areas

Group 1, Channel No. 229 coast station transmitting frequency 1 621 kHz ship station transmitting frequency 2 156 kHz	
BULGARIA	ICELAND
CAPE VERDE	JORDAN
IVORY COAST	KUWAIT
VATICAN	MOROCCO
UNITED KINGDOM (IRISH SEA)	NORWAY (N.65N.)
GABON	TANZANIA
ITALY (WEST)	UKRAINE
	YEMEN ARAB REPUBLIC

Group 2, Channel No. 230 coast station transmitting frequency 1 621.5 kHz ship station transmitting frequency 2 156.5 kHz	
CAMEROON	ISRAEL
CANARIES	LIBERIA
COMORES	MAURITIUS
ETHIOPIA	NORWAY (S.65N.)
UNITED KINGCOM (CHANNEL)	REUNION
ITALY (EAST)	ROMANIA
	SEYCHELLES (REPUBLIC OF)

Group 3, Channel No. 231 coast station transmitting frequency 1 622 kHz ship station transmitting frequency 2 157 kHz	
ALGERIA	KENYA
BYELORUSSIA	NORWAY (S.65N.)
FRANCE (CHANNEL)	SYRIA
GHANA	UNITED ARAB EMIRATES
GREECE	USSR

Group 4, Channel No. 232 coast station transmitting frequency 1 622.5 kHz ship station transmitting frequency 2 157.5 kHz	
SAUDI ARABIA	IRELAND
FEDERAL REPUBLIC OF GERMANY	LIBYA
FRANCE (MEDITERRANEAN)	MOZAMBIQUE
FINLAND	MAURITANIA
EQUATORIAL GUINEA	SIERRA LEONE
	TURKEY

Group 5, Channel No. 233 coast station transmitting frequency 1 623 kHz ship station transmitting frequency 2 158 kHz	
ASCENSION	MALTA
DJIBOUTI	NAMIBIA
UNITED KINGDOM (NORTH SEA)	OMAN
	SWEDEN
GIBRALTAR	ST. HELENA
GAMBIA	SAO TOME AND PRINCIPE

Group 6, Channel No. 234 coast station transmitting frequency 1 623.5 kHz ship station transmitting frequency 2 158.5 kHz	
ANGOLA	NETHERLANDS
ALBANIA	MONACO
BAHRAIN	NIGERIA
SPAIN (ATLANTIC)	POLAND
EGYPT	YEMEN (PEOPLE'S DEMO-
GUINEA	CRATIC REPUBLIC OF)

Group 7, Channel No. 235 coast station transmitting frequency 1 624 kHz ship station transmitting frequency 2 159 kHz	
BELGIUM	IRAQ
BENIN	MADAGASCAR
CYPRUS	SUDAN
GERMAN DEMOCRATIC REPUBLIC	SENEGAL
SPAIN (MEDITERRANEAN)	TRISTAN DA CUNHA
GREECE	USSR
	ZAIRE

Group 8, Channel No. 236 coast station transmitting frequency 1 624.5 kHz ship station transmitting frequency 2 159.5 kHz	
SOUTH AFRICA	PORTUGAL (MADEIRA)
AZORES	QATAR
CONGO	SOMALIA
DENMARK	TOGO
FRANCE (ATLANTIC)	TUNISIA
GUINEA-BISSAU	USSR
LEBANON	YUGOSLAVIA

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

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9 March 1985
Original: English

COMMITTEE 5

REPORT OF THE CHAIRMAN OF AD HOC GROUP 4 TO COMMITTEE 5

At its second meeting the ad hoc Group reconsidered draft Recommendation No. COM 5/A (MM).

Attached you will find the modified Recommendation which was unanimously agreed upon.

A.R. VISSER
Chairman of ad hoc Group 4 to
Committee 5

Annex: 1

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ANNEX

DRAFT RECOMMENDATION No. COM 5/A (MM)

Relating to the replacement of the world-wide maritime mobile working frequency 425 kHz for ship stations

The Regional Administrative Radio Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference, Geneva, 1979 allocated the frequency band 415 - 435 kHz in Region 1 to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) that the World Administrative Radio Conference for the Mobile Services, Geneva, 1983 resolved that a Regional Administrative Radio Conference for Region 1 should be convened in 1985 to prepare frequency assignment plans for the aeronautical radionavigation service in the frequency bands 415 - 435 kHz and 505 - 526.5 kHz, and for the maritime mobile service in the frequency bands 415 - 435 kHz and 435 - 510 kHz;

further considering

c) that this Conference has established a frequency assignment plan for aeronautical radiobeacons in the band 415 - 435 kHz in Region 1;

d) that the possibilities for the maritime mobile service for using frequencies from this band are limited;

e) that this Conference decided that in the maritime mobile service only coast stations should be allowed to use frequencies from this band;

f) that it would not be practicable if the frequency 425 kHz was allowed to continue on a world-wide basis as a ship working frequency for radiotelegraphy in accordance with the permitted allocation to the maritime mobile service in this band and with No. 4237 of the Radio Regulations;

g) that this Conference decided that the frequency [458 kHz] should replace the frequency 425 kHz in order to avoid problems with the implementation of the Plan for the aeronautical radiobeacons;

h. that harmful interference in the reception of the aeronautical radiobeacons may have serious implications for the safety of life;

i. that the revision of No. 4237 was not within the agenda for this Conference;

recommends

that the Conference for the mobile services planned for 1987 should be authorized to review and revise No. 4237 of the Radio Regulations with a view to replacing the frequency 425 kHz by the frequency 458 kHz as a world-wide ship station working frequency in all Regions, from the date of entry into force of the Plan for aeronautical radiobeacons in the band 415 - 435 kHz (viz ...);

invites

the Administrative Council to ensure that the Conference for the mobile services planned for 1987 will be competent to review and revise No 4237 of the Radio Regulations;

requests

the Secretary-General to bring this Recommendation to the attention of all administrations.

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 118-E
9 March 1985
Original: English

PLENARY MEETING

Second report of Committee 6 to the Plenary Meeting

The second series of texts adopted by Committee 6 has been forwarded to the Editorial Committee (see Document 112).

The attention of the Plenary Meeting is drawn to the fact that the delegation of Greece reserved its right to revert to the question when the Plenary Meeting considers draft Resolution No. COM6/1.

S. CHALLO
Chairman of Committee 6

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 119-E
9 March 1985
Original: French/
English/
Spanish

COMMITTEE 7

THIRD SERIES OF TEXTS SUBMITTED BY COMMITTEE 6 TO THE EDITORIAL COMMITTEE

The text of the annexes hereto were adopted by Committee 6 and are submitted to the Editorial Committee.

S. CHALLO
Chairman of Committee 6

Annexes: 2

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX 1

(to Document 119)

ANNEX A

Technical parameters used in establishing frequency assignment plans in Region 1 for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and for the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz

1. Maritime mobile service

1.1 Designations of emission

The Plan for the maritime mobile service was established for the following designations of emission in accordance with the channel arrangements as indicated in Annex [ ].

1.1.1 Morse telegraphy, designation of emission 100HA1A, bands 415 - 435 kHz and 435 - 526.5 kHz.

1.1.2 Narrow-band direct printing (transmission rate 100 bauds, frequency deviation ±85 Hz), designation of emission 304HF1B and digital selective calling (transmission rate 100 bauds, frequency deviation ±85 Hz), designation of emission 304HF1B in the bands 435 - 526.5 kHz, 1 606.5 - 1 625 kHz and 2 045 - 2 160 kHz.

1.1.3 Single-sideband telephony (upper sideband), designation of emission [2.7] KJ3E in the bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz.

1.2 Propagation

1.2.1 Ground-wave propagation[1]

Ground-wave propagation was calculated according to CCIR Recommendation 368-4 for propagation over sea water, average salinity, 20°C, σ = 5S/m and ε = 70. For the bands 415 - 435 kHz, 435 - 526.5 kHz and above 1 606.5 kHz the curves for 400 kHz, 500 kHz and 2 MHz, respectively, were used. The curves applied are given in Figure 1; they refer to an e.m.r.p. of 1 kW.

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[1] To be modified should sections 1.2.2 and 1.2.3 be deleted.

[1.2.2 Sky-wave propagation

Sky-wave propagation was calculated according to CCIR Recommendation 435-4 for midnight conditions. Polarization coupling loss and sea gain were not taken into account. Field strengths produced by coast stations situated north of and on parallel 20° North and south of parallel 20° North were calculated for geomagnetic latitudes 50° North and 30° South, respectively.

For the bands below 526.5 kHz and above 1 606.5 kHz the curves were calculated for 500 kHz and 1 800 kHz, respectively. They are given in Figure 2 and refer to an e.m.r.p. of 1 kW.]

[1.2.3 Application of ground- and sky-wave propagation

The ground-wave field strength was used to determine the coverage area and, where no night-time protection was required, also the interference range. The maximum of ground- and sky-wave field strength was used to determine the interference range where night-time protection was required.]

1.3 Minimum field strength to be protected

The following values of the minimum field strength to be protected, which include allowances for variations in noise level with time and signal fading with time, were applied:

1.3.1 Class of emission A1A

Bands 415 - 435 kHz and 435 - 526.5 kHz:

36.5 dB(μV/m) north of and on parallel 30° North, and
56.5 dB(μV/m) south of parallel 30° North.

1.3.2 Class of emission F1B

Since the emission characteristics of narrow-band direct printing and digital selective calling are essentially the same, they require the same minimum field strength to be protected.

Band 435 - 526.5 kHz:

31.5 dB(μV/m) north of and on parallel 30° North, and
51.5 dB(μV/m) south of parallel 30° North.

Bands 1 606.5 - 1 625 kHz and 2 045 - 2 160 kHz:

22.5 dB(μV/m) north of and on parallel 30° North, and
42.5 dB(μV/m) south of parallel 30° North.

1.3.3 Class of emission J3E

Bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz:

37 dB(μV/m) north of and on parallel 30° North, and
57 dB(μV/m) south of parallel 30° North

1.4 Protection ratio

The following values of protection ratio (see Radio Regulation 164) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB		
	Wanted signal		
	A1A interfering signal A1A or F1B	F1B interfering signal F1B or A1A	J3E interfering signal J3E
0	8	8	20
0.5	-13	-38	
1.0	-26	-62	
1.5	-42		
2.0	-60		
3.0			-25
6.0			-50

Note - Since the emission characteristics of narrow-band direct printing (class of emission F1B) and digital selective calling (class of emission F1B) are essentially the same, they have the same interference potential and require the same protection ratios.

1.5 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering signal was considered.

1.6 Channel spacing

1.6.1 Planning was based on a channel spacing of 0.5 kHz for A1A and F1B emissions.

1.6.2 Planning was based on a channel spacing of 3 kHz for J3E emissions.

1.7 Transmitted power

The effective monopole radiated power (e.m.r.p., see Radio Regulation 157) was derived from the minimum field strength to be protected at the edge of the coverage area. The power supplied to the antenna transmission line was derived from the e.m.r.p. by applying the following typical values of antenna gain (see Radio Regulation 154) relative to a short vertical antenna, which include the loss of the antenna coupling unit:

1.7.1 Bands below 526.5 kHz: -7 dB;

1.7.2 Bands above 1 606.5 kHz: -4 dB.

1.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the plan could neither take account of propagation over mixed land/sea paths nor of a more sophisticated method of sky-wave field strength prediction. These factors were, however, taken into consideration by administrations in a case by case analysis, when solving incompatibilities during the Conference.

[In general], omnidirectional antennas were assumed. [However, on a case by case basis, directional antennas were taken into consideration, which increased the sharing possibilities.]

2. Aeronautical radionavigation service

2.1 Designation of emission

The Plan for the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz was established on the basis of class of emission NØN, however, it will indicate only the classes of emission used during the transmission of the identification signal (A1A, A2A, etc.). Two types of beacon with class of emission A2A are generally used, i.e. with modulation frequencies of 400 Hz (±25Hz) and 1 020 Hz (±50 Hz).[1]

2.2 Propagation

The ground-wave mode of propagation only was used. Ground-wave field strength was calculated according to CCIR Recommendation 368-4 for propagation over wet ground, σ = 10-2 S/m, ε = 30. For the bands 415 - 435 kHz and 510 - 526.5 kHz the curves for 400 kHz and 500 kHz, respectively, were used. They are given in Figure 3 and refer to an e.m.r.p. of 1 kW.

For propagation over mixed land/sea paths see section 2.8.

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[1] The list of requirements contains different classes of emission from which no rule can be developed for the determination of the necessary bandwidth. Further information is required from Committee 5.

2.3 Minimum field strength to be protected

The following values of the minimum field strength to be protected (see also Radio Regulations 2856 and 2857) were applied:

2.3.1 37 dB(μV/m) for stations north of parallel 30° North and south of parallel 30° South;

2.3.2 41.6 dB(μV/m) for stations between parallels 30° North and 30° South.

2.4 Protection ratio

The following values of protection ratio (see Radio Regulation 164 and also 2854) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB
0	15
0.5	15
1	9
1.5	2
2	-5
2.5	-12.5
3	-20
3.5	-27.5
4	-35
4.5	-42.5
5	-50
5.5	-57.5
6	-65

2.5 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering signal was considered.

2.6 Channel spacing

Planning was based on a channel spacing of 1 kHz. However, in exceptional cases, for national use, interleaved channels at 0.5 kHz were also used, provided that this did not adversely affect the assignment in the Plan on integer multiples of 1 kHz.

2.7 Transmitted power

The effective monopole radiated power (e.m.r.p., see Radio Regulation 157) was derived from the minimum field strength to be protected at the edge of the coverage area.

2.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the plan could not take account of propagation over mixed land/sea paths. Section 2.2 indicates that the propagation characteristics were predicted as for "wet ground" and thus when a significant fraction of the path from an interfering emission to the wanted coverage area was across sea water the predicted interference level may have been underestimated.

3. Compatibility between the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz and at the band limit around 435 kHz

3.1 Protection of stations of the maritime mobile service against interference from stations of the aeronautical radionavigation service

3.1.1 The parameters given in sections 1.2, 1.3 and 1.5 to 1.8 were applied.

3.1.2 The protection ratios were as follows:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB			
	interfering radiobeacon with 400 Hz modulation		interfering radiobeacon with 1 020 Hz modulation	
	wanted signal A1A	wanted signal F1B	wanted signal A1A	wanted signal F1B
0	8	8	8	8
0.5	2	2	-13	-38
1.0	-19	-44	2	2
1.5	-32	-68	-19	-44
2.0	-48		-32	-68
2.5	-66		-48	
3.0			-66	

Note - These protection ratios were established on the basis of an A2A radiobeacon emission.

3.2 Protection of stations of the aeronautical radionavigation service against interference from stations of the maritime mobile service

The parameters given in sections 2.2 to 2.8 were applied. It was assumed that a maritime mobile signal (A1A or F1B) has the same interference potential as an aeronautical radiobeacon signal.

3.3 Protection of stations of the maritime mobile service immediately above 435 kHz against interference from stations of the aeronautical radionavigation service immediately below 435 kHz and vice-versa

The criteria given in 3.1 and 3.2 were applied.

4. Technical criteria applied for the reassignment of replacement frequencies for stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz according to Resolution No. 38 of the World Administrative Radio Conference, Geneva, 1979

The criteria given in section 1 and relevant to the bands above 1 606.5 kHz were applied.

5. Technical criteria applied for the protection of frequency assignments of stations of other services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated

In applying the planning program as part of the computer program package for the establishment of the Plan, a frequency for stations of the maritime mobile service was selected on the basis of provisional sharing criteria between the services concerned. In applying in the second stage the incompatibility analysis program as part of the computer program package, the final and definite compatibility analysis vis-à-vis stations of the other services to which these bands are also allocated was carried out on the basis of the Technical Standards of the IFRB. This analysis identified those cases where there was a probability of harmful interference in either direction.

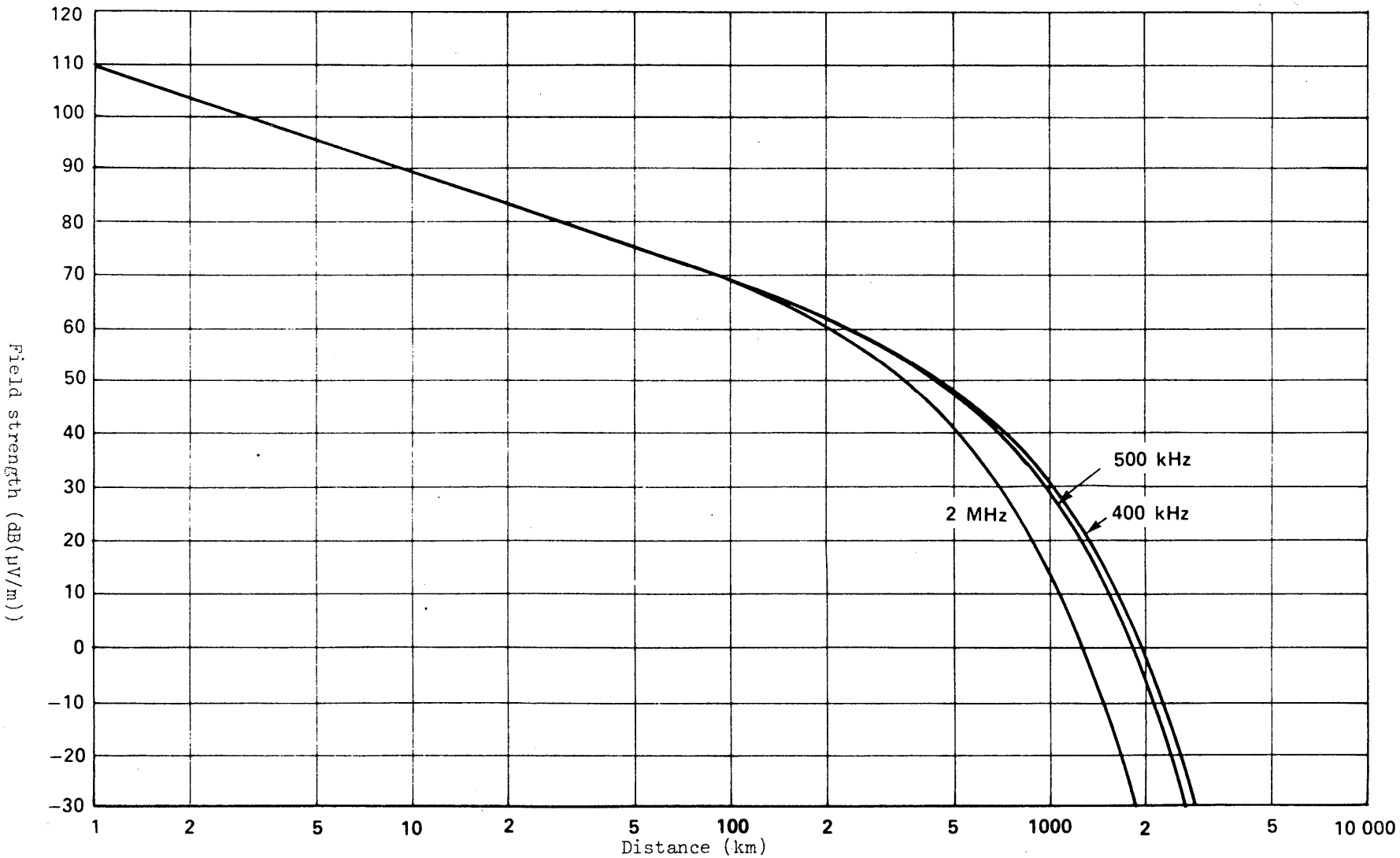


FIGURE 1

Ground-wave propagation - maritime mobile service

(see Annex A, section 1.2.1)

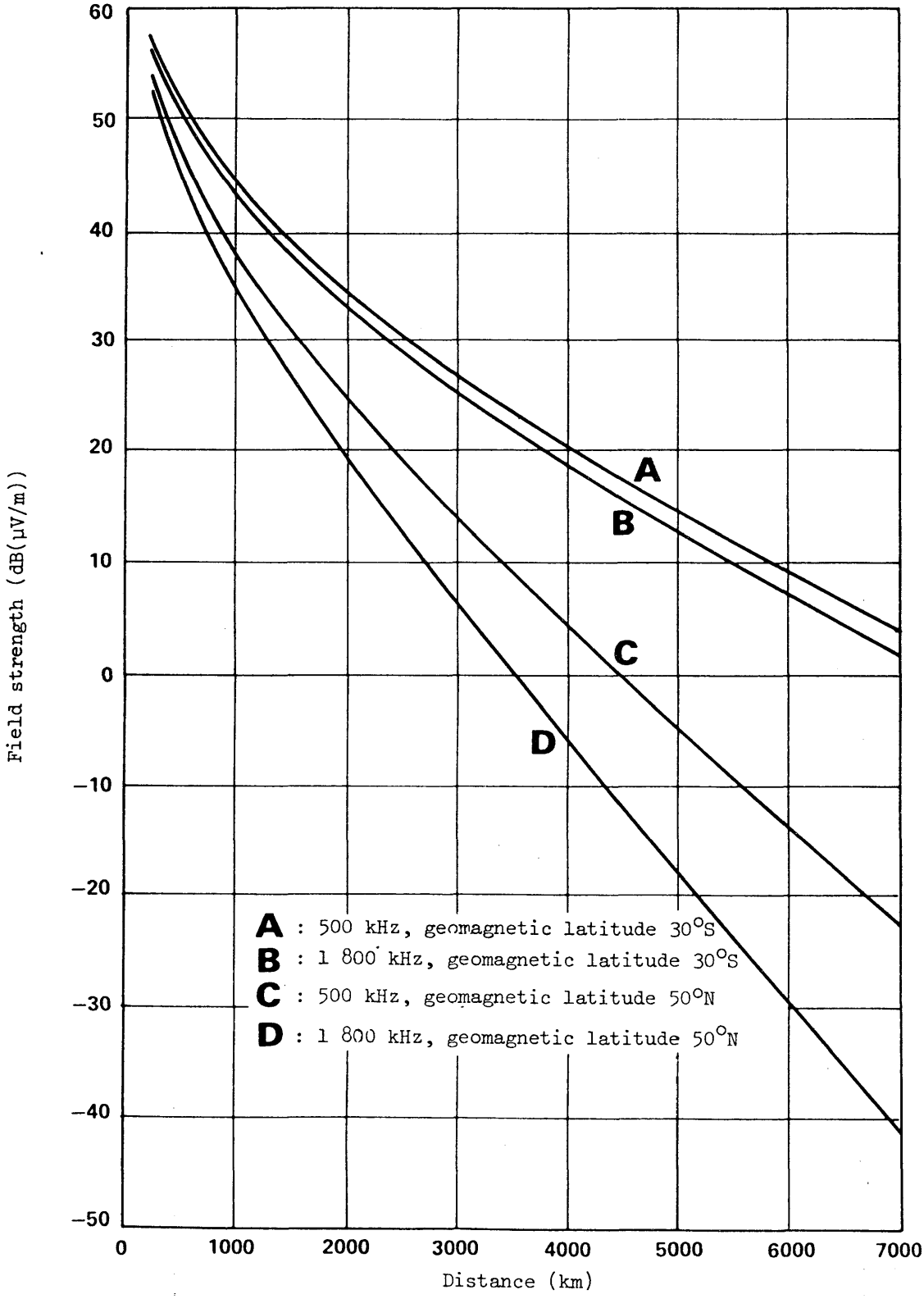


FIGURE 2

Sky-wave propagation - maritime mobile service

(see Annex A, section 1.2.2)

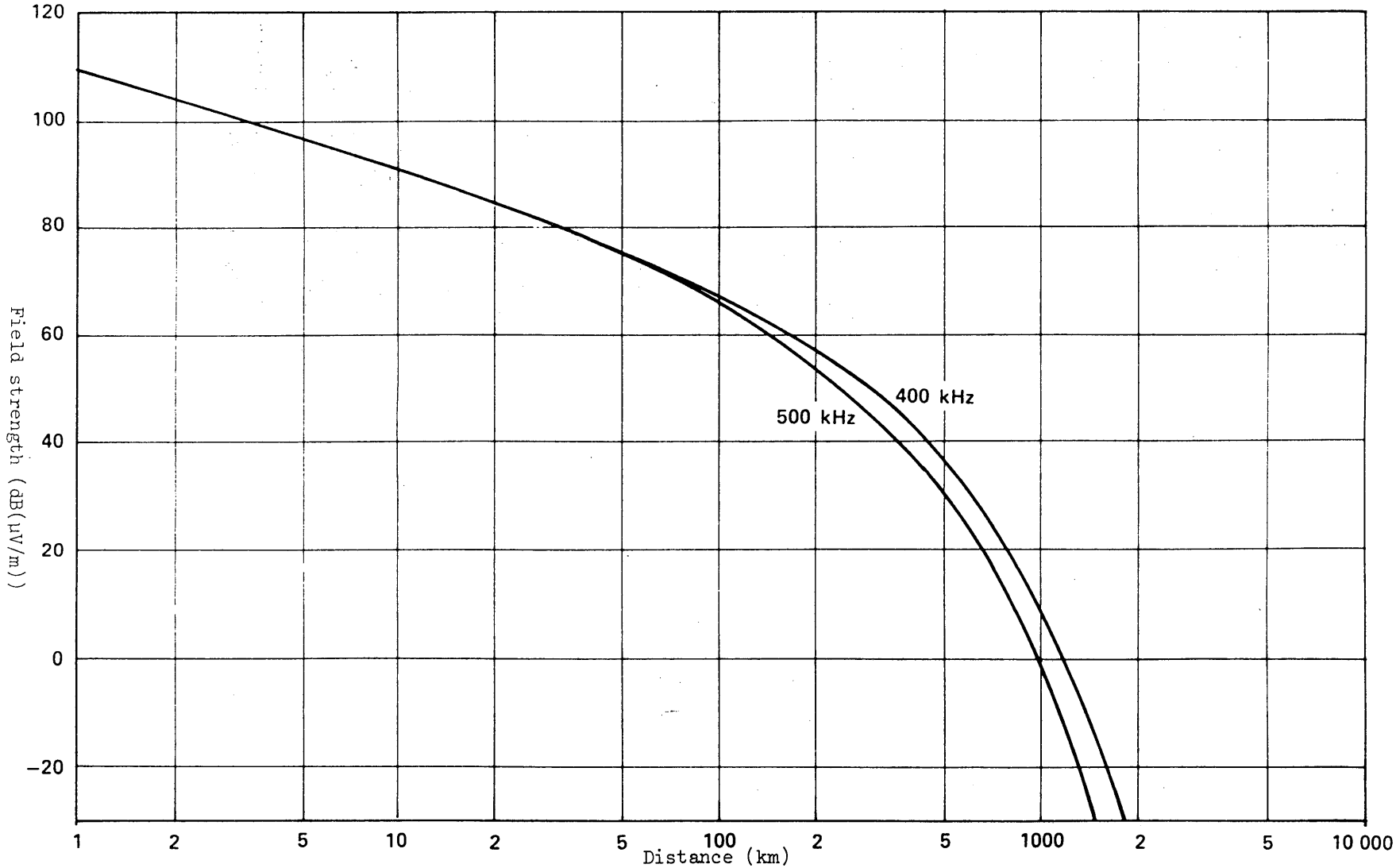


FIGURE 3

Ground-wave propagation - aeronautical radionavigation service

(see Annex A, section 2.2)

ANNEX B

Criteria to be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement

The following criteria shall be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement.

For the purpose of this annex the following definitions are associated to assignments in conformity with the Agreement:

- the service area of a coast station is the area limited on the one hand by the coast and on the other hand by the coverage range over sea which is recorded in the Plan;

- the service area of a station of the aeronautical radionavigation service is the area around this station limited by the coverage range which is recorded in the Plan.

1. Administrations having an assignment in conformity with the Agreement

1.1 The service rendered by a station for which an assignment is in conformity with the Agreement may be affected by a modification to a Plan when the wanted to unwanted signal ratio at any point of the service area resulting from the proposed modification to a Plan is less than the protection ratio indicated in sections 1.4, 2.4 or 3.1.2 of Annex A, as appropriate.

1.2 The wanted to unwanted signal ratio shall be calculated in the same channel and in any of the adjacent channels using the following criteria.

a) Stations of the maritime mobile service interfering with stations of the maritime mobile service:

Annex A, sections [1.2] [1.2.1] and 1.3 to 1.7.

b) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:

Annex A, sections 1.2.1, 1.7 and 2.3 to 2.7.

The Board in communicating the list of administrations with which coordination is necessary, shall also indicate in the Special Section, for information only, the wanted to unwanted signal ratio resulting from the use of propagation over land (i.e. the data given in section 2.2 of Annex A).

c) Stations of the aeronautical radionavigation service interfering with stations of the aeronautical radionavigation service:

Annex A, sections 2.2 to 2.7.

d) Stations of the aeronautical radionavigation service interfering with stations of the maritime mobile service:

Annex A, sections [1.2] [1.2.1], 1.3, 1.5, 1.6, 2.7 and 3.1.2.

2. Administrations having an assignment recorded in the Master International Frequency Register for an unplanned primary or permitted service

[2.1 Bands 415 - 435 kHz and 510 - 526.5 kHz

2.1.1 The service rendered by a station for which an assignment is recorded in the Master International Frequency Register may be affected by a modification to the Plan when the wanted to unwanted signal ratio at any point of the service area resulting from the proposed modification to the Plan is less than the protection ratio indicated in sections 2.4 or 3.1.2 of Annex A, as appropriate.

2.1.2 The wanted to unwanted signal ratio shall be calculated in the same channel and in any of the adjacent channels using the following criteria.

a) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:

Annex A, sections 1.2.1, 1.7 and 2.3 to 2.7.

The Board in communicating the list of administrations with which coordination is necessary, shall also indicate in the Special Section, for information only, the wanted to unwanted signal ratio resulting from the use of propagation over land (i.e. the data given in section 2.2 of Annex A).

b) Stations of the aeronautical radionavigation service interfering with stations of the maritime mobile service:

Annex A, sections [1.2] [1.2.1], 1.3, 1.5, 1.6, 2.7 and 3.1.2.]

2.2 Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

The service rendered by a station for which an assignment is recorded in the Master International Frequency Register may be affected by a modification to the Plan when the application of the relevant Technical Standards of the IFRB using ground-wave propagation would result in an unfavourable finding.

ANNEX C

Criteria to be used by the IFRB in the examination under Radio Regulation 1241 of frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz (Article 6 of the Agreement)

When examining frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz under Radio Regulation 1241 (see Article 6 of the Agreement), the IFRB shall use its relevant Technical Standards on the basis of ground-wave propagation.

ANNEX 2

(to Document 119)

DRAFT

RECOMMENDATION No. COM 6/D (MM)

relating to the deletion from the Plan of assignments which are no longer required

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, in accordance with its agenda, the Conference established Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that the Conference established these Plans without taking account of the date by which the assignments included in them will be brought into use;

c) that the Conference did not consider appropriate to fix a period for the validity of the Plan;

d) that during the years following the adoption of the Plans by the Conference, administrations may need to modify their projected uses of the planned bands;

e) that, at the same time, administrations might need additional assignments;

ebis) that the Conference was unable to satisfy all the requirements submitted by administrations and identified those of the requirements which could not be met;

f) that the Conference adopted Article 6 of the Agreement applicable to frequency assignments to stations of the other services to which the planned bands are also allocated on a primary or permitted basis;

g) that the Conference requested the IFRB to consult periodically administrations of their intentions with respect to the bringing into use of the assignments appearing in the Plans,

urges administrations

1. to inform the IFRB as soon as possible in order to cancel from the Plan concerned any assignment appearing in one of the Plans which they no longer require;

2. to review their assignments appearing in the Plans when they are consulted by the IFRB in application of paragraph 30bis of the Agreement and to request it to cancel from the Plan concerned those assignments which they no longer require.

BLUE PAGES

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 120-E
11 March 1985

B.2 (MM) PLENARY MEETING

SECOND SERIES OF TEXTS SUBMITTED BY THE

EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
COM.6	112	Articles 4, 5, 6 Resolution No. COM 6/1 (MM) Resolution No. COM 6/2 (MM) Resolution No. COM 6/3 (MM)

J.-L. BLANC
Chairman of the Editorial Committee

Annex: 13 pages

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ARTICLE 4

Procedure for modifications to the Plans

SECTION A - GENERAL

1. When a Contracting Member proposes to make a modification to a Plan:

a) by modifying the characteristics of a station of the maritime mobile service or the aeronautical radionavigation service shown in the appropriate Plan, whether or not the station has been brought into use; or

b) by bringing into use an assignment to a station of the maritime mobile service or the aeronautical radionavigation service not appearing in any of the appropriate Plans; or

c) by modifying the characteristics of a frequency assignment to a station of the maritime mobile service or the aeronautical radionavigation service for which the procedure in this article has been successfully applied, whether or not the station has been brought into use; or

d) by deleting from the appropriate Plan a frequency assignment to a station of the maritime mobile service or the aeronautical radionavigation service;

the following procedure shall be applied before any notification is made under Article 12 of the Radio Regulations (see Article 5 of this Agreement).

SECTION B - PROCEDURE FOR THE MARITIME MOBILE SERVICE

Procedure for modifying the characteristics of an assignment or for bringing into use a new assignment

2. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.

3. For the purposes of this procedure, these other administrations shall be any which have:

a) assignments in the Plan or Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex [ ] to this Agreement;

b) assignments recorded in the Master Register for stations of services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a primary or permitted basis which may be affected according to the provisions of No. 1241 of the Radio Regulations together with the technical criteria contained in Annex [ ].

4. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall so inform the IFRB and shall furnish to the IFRB the characteristics listed in Appendix 1 to the Radio Regulations and the names of the administrations with which it considers agreement should be sought and with which agreement has been reached.

4bis) The IFRB shall examine the information received from the stand point of its conformity with the channelling arrangement contained in annexes [ ] to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

5. The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in paragraph 3 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board shall at the same time inform those administrations having assignments which it considers, in accordance with paragraph 3, may be affected.]

6. An administration which considers that it should have been included in the list of administrations whose frequency assignments may be affected shall inform the administration proposing the modification or addition to the Plan in question and the IFRB. At the same time it shall, giving its reasons for so doing, request the IFRB to include its name in the list.

7. If an administration which has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 5, the IFRB shall send a reminder to the administration concerned inviting it to reply urgently to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

8. If, in seeking agreement, an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administration with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of paragraph 3 and the subsequent procedure for those administrations.

9. Following expiry of the period specified in paragraph 7, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

10. If no agreement is reached between the administrations concerned, the IFRB shall make any study of the matter that may be requested by one or more of those administrations; the Board shall inform them of the results of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

11. Before initiating this procedure and at any stage thereof, an administration may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

12. If, after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also paragraph 30).

13. If, after application of the procedure described in this section, the agreement of the administration concerned cannot be reached, the two administrations may resort to one of the methods for the settlement of disputes described in Article 50 of the Convention or they may agree to apply the Optional Additional Protocol to the Convention.

14. The proposed assignment may, despite continuing disagreement, be notified in accordance with Article 12 of the Radio Regulations. However, the relevant provisions of Article 5 of the Agreement shall then be applied.

SECTION C - PROCEDURE FOR THE AERONAUTICAL RADIONAVIGATION SERVICE

Procedure for modifying the characteristics of an assignment or for bringing into use a new assignment

15. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.

16. For the purposes of this procedure, these other administrations shall be those which have assignments in the Plan or Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex [ ] to this Agreement.

17. Where any ICAO coordination of the operational aspects of a proposed assignment is appropriate, this should be completed before commencement of the following procedure.

18. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall so inform the IFRB and shall furnish to the IFRB the characteristics listed in Appendix 1 to the Radio Regulations and the names of the administrations with which it considers agreement should be sought and with which agreement has been reached.

18bis) The IFRB shall examine the information received from the stand point of its conformity with the channelling arrangement contained in annexes [ ] to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

19. The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in paragraph 16 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board shall at the same time inform those administrations having assignments which it considers, in accordance with paragraph 16, may be affected.

20. An administration which considers that it should have been included in the list of administrations whose frequency assignments may be affected shall inform the administration proposing the modification or addition to the Plan in question and the IFRB. At the same time it shall, giving its reasons for so doing, request the IFRB to include its name in the list.

21. If an administration which has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 19, the IFRB shall send a reminder to the administration concerned inviting it to reply urgently to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

22. If, in seeking agreement, an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administraiton with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of paragraph 16 and the subsequent procedure for those administrations.

23. Following expiry of the period specified in paragraph 21, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

24. If no agreement is reached between the administrations concerned, the IFRB shall make any study of the matter that may be requested by one or more of those administrations; the Board shall inform them of the results of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

25. Before initiating this procedure and at any stage thereof, an administration may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

26. If, after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also paragraph 30).

27. If, after application of the procedure described in this section the agreement of the administration concerned cannot be reached, the two administrations may resort to one of the methods for the settlement of disputes described in Article 50 of the Convention or they may agree to apply the Optional Additional Protocol to the Convention.

28. The proposed assignment may, despite continuing disagreement, be notified in accordance with Article 12 of the Radio Regulations, however, the relevant provisions of Article 5 of the Agreement shall then be applied.

SECTION D - CANCELLATION OF ASSIGNMENTS

29. An administration proposing to cancel an assignment in any of the Plans, whether or not as a result of a modification (for instance a change of frequency), shall immediately so inform the IFRB. The Board shall publish this information in a special section of the weekly circular as a modification to the Plan.

30. If, after a period of two years from the date of entry of an assignment in the Plan, following the application of the procedure contained in this Article, the IFRB has not received a notice relating to its bringing into use, that assignment shall be deleted from the Plan. Before taking such action, the Board shall consult with the administration concerned on the appropriateness of such deletion and if, the circumstances so warrant, it may be postponed for a maximum period of six months.

30bis. Every three years, the Board shall consult administrations of Contracting Members with a view to drawing their attention to Recommendation No. COM 6/D and to request them to cancel assignments appearing in the Plan adopted by the Conference and which are no longer required; the Board shall also inform Contracting Members of the results of these consultations.

SECTION E - MAINTENANCE AND PUBLICATION OF RECORDS

31. The IFRB shall maintain an up-to-date master copy of the Plans and their Appendices, taking account of the application of the procedure specified in this Article; to this end the IFRB shall periodically prepare recapitulative documents listing all amendments made to the Plans as a result of modifications made in accordance with the procedures of this Article, new assignments added in conformity with this Agreement, and any cancellations notified to the Board.

32. The Secretary-General shall publish an up-to-date version of each Plan in an appropriate form as and when required by circumstances and in any case every five years.

ARTICLE 5

Notification of frequency assignments

33. Whenever an administration intends to bring into use an assignment in conformity with this Agreement, it shall notify the assignment to the IFRB under Article 12 of the Radio Regulations.

34. Notices of frequency assignments in conformity with this Agreement shall not be examined by the Board under No. 1241 with respect to frequency assignments recorded in the Master Register on behalf of Contracting Members for stations of primary or permitted services of administrations parties to this Agreement.

35. Notices of frequency assignments submitted under paragraphs 14 and 28 of Article 4 for which it has not been possible to reach agreement shall be treated as follows:

a) when the disagreement of the administration concerned relates to an assignment in conformity with this Agreement, the notified assignment shall be recorded in the Master Register with a special remark indicating that the entry has been made subject to the condition that no harmful interference shall be caused to the assignment of the administration with which agreement has not been reached;

b) when the disagreement of the administration concerned relates to an assignment recorded in the Master Register for a station of a primary or permitted service, the notified assignment shall not be recorded in the Master Register until the provisions of No. 1255 of the Radio Regulations have been applied.

36. In relations between Contracting Members, all frequency assignments brought into service in conformity with this Agreement and recorded in the Master Register shall be considered as having the same status irrespective of the date or dates entered in Column 2 for such assignments.

ARTICLE 6

Procedure applicable to new assignments in the non-planned permitted and primary services

37. In order to permit the compatible development of the primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, the IFRB shall examine, in accordance with No. 1245 of the Radio Regulations, the frequency assignments of these other services notified by Contracting Members. To this effect, the following provisions shall be applied.

38. The Board shall examine the frequency assignment with respect to the probability of harmful interference to the service provided or to be provided by a frequency assignment:

a) which is already recorded in the Master Register and bears a date in Column 2a; or

b) which is recorded in the Master Register in accordance with No. 1240 of the Radio Regulations with a date in Column 2b, but has not in fact caused harmful interference to any frequency assignment with a date in Column 2a or to any assignment in conformity with No. 1250 with an earlier date in Column 2b;

c) which is in conformity with this Agreement but has not yet been notified in accordance with Article 5;

d) which was published in a special section of the weekly circular in accordance with paragraph 5 (Article 4).

39. In the event of an unfavourable finding relating to a frequency assignment described in paragraphs 38 c) or 38 d), if the administration resubmits the notice under No. 1255 of the Radio Regulations, the period of two months specified in No. 1259 shall not start until the assignment which forms the basis for the unfavourable finding is brought into service.

40. For the purpose of these examinations, the Board shall apply the technical criteria contained in Annex [ ] to this Agreement.

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RESOLUTION No. COM 6/1 (MM)

Application of Articles 4, 5 and 6 of the Agreement Before its Entry into Force

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), (Geneva, 1985),

considering

a) that, in accordance with its agenda, it has adopted an Agreement and associated Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that some administrations may need to modify the characteristics of assignments appearing in the Plans or to add new assignments to the Plans or to notify assignments included in the Plans before the Agreement enters into force;

c) that some administrations may need to notify frequency assignments in the fixed service or the land mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz before the Agreement enters into force;

d) that means must be provided, before the date of entry into force of the Agreement, to permit modifications to the Plans and to ensure that the proposed uses of the primary and permitted services in the relevant bands are compatible with the Plans;

resolves

1. that, pending the entry into force of the Agreement, administrations and the IFRB shall apply the procedures set out in Article 4 of the Agreement for the modification of the Plans;

2. that, during the period concerned, administrations and the IFRB shall apply the procedures set out in Articles 5 and 6 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands as well as the provisions of resolves 3;

3. that the temporary provisions contained in the Annex to this Resolution shall be applicable during the period in question.

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ANNEX TO RESOLUTION No. COM 6/1 (MM)

Provisional Procedure Applicable to Frequency Assignments Notified Under Article 5 of the Agreement Before the Entry into Force of the Agreement

1. When an administration proposes to modify the characteristics of an assignment entered in the Master Register in order to make it consistent with the Plan, or when an administration wishes to bring into service an assignment in conformity with the Plan, it shall notify that assignment under Article 5 of the Agreement.

2. The IFRB shall examine such notifications relating to assignments entered in the Master Register on the date of receipt of the notification and shall inform the notifying administration of any incompatibility it may identify with assignments of other administrations.

3. The notifying administration shall endeavour to secure the agreement of the administrations identified under paragraph 2 above.

4. When the agreement of the administrations concerned has been obtained, the assignment may be brought into service in accordance with the Plan and, if necessary, the corresponding assignment which has been the subject of the modification shall be deleted from the Master Register.

RESOLUTION No. COM 6/2 (MM)

Updating of the Master International Frequency Register with Regard to Assignments to Stations of the Planned Services in the Planned Frequency Bands to Permit the Entry into Force of the Agreement and Associated Plans

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, in accordance with this Agreement, the Contracting Members have adopted Plans for their maritime mobile service and aeronautical radionavigation service stations in the frequency bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that under the provisions of Article 5 of the Agreement, the Contracting Members are required to notify the IFRB of frequency assignments to stations of the planned services before they are brought into operation;

c) that the administrations of Contracting Members and the IFRB should have an appropriate procedure for implementing the Plans agreed at the present Conference with the least possible difficulty;

resolves

1. that, within 90 days from the date on which this Conference ends, the IFRB shall send to each administration a list of the assignments to stations of the planned services entered on its behalf in the Master Register in the planned bands as well as a list of the assignments entered on its behalf in the Plans adopted at this Conference;

2. that, in sending these lists, the IFRB shall request administrations to return within 90 days a list showing the correspondence between the assignments entered in the Plans and those entered in the Master Register;

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3. that any assignment entered in the Master Register for the maritime mobile and aeronautical radionavigation services in the planned bands that has no corresponding assignment in the Plan shall be deleted from the Register on the date of entry into force of the Agreement;

4. that, 90 days prior to the entry into force of the Agreement, administrations shall notify the IFRB of the assignments in conformity with the Plan that are intended to replace the corresponding assignments entered in the Master Register;

5. that if, in examining the frequency assignments notified by administrations under paragraph 4 above, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in column 2;

6. that, 30 days after the date of entry into force of the Agreement, assignments entered in the Master Register for which the IFRB has not received a notice concerning the entry into service of the corresponding assignment in the Plan shall be retained in the Master Register, with a remark in the appropriate column to show that the assignment in question is not entitled to any protection in relation to assignments that are in conformity with the Plan and must not cause any harmful interference to such assignments. Each administration concerned shall be advised of such action;

7. that if, upon expiry of the above-mentioned period, the Board receives a notice under the terms of paragraph 4 above, it shall delete the corresponding assignment from the Master Register;

invites the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

RESOLUTION No. COM 6/3 (MM)

Transfer of Frequency Assignments to Stations of the Maritime Mobile Service Operating in the Bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference (Geneva, 1979), allocated the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz to the radiolocation service and the band 1 810 - 1 850 kHz to the amateur service;

b) that the bands mentioned in paragraph a) above were formerly allocated to the maritime mobile service;

c) that, in Resolution No. 38, the World Administrative Radio Conference (Geneva, 1979), resolved that, on the date of entry into force of a frequency assignment plan for the maritime mobile service in the band 1 606.5 - 2 850 kHz, the operations of fixed and mobile stations in Region 1 should cease in the bands mentioned in paragraph a) above, except with regard to the countries and bands mentioned in Nos. 485, 490, 491, 493 and 499 of the Radio Regulations;

d) that in the same Resolution the Conference resolved that replacement frequencies for stations of the maritime mobile service should be provided in the Plan referred to in paragraph c) above, together with the arrangements for their implementation;

e) that the present Conference adopted an Agreement with annexed frequency plans for stations of the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz which contain the replacement frequencies mentioned above;

resolves

1. that, 90 days before the date of entry into force of the Agreement, the administrations shall notify the IFRB of the assignments in conformity with the Plan which are to replace the assignments to stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz;

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2. that the provisions of Resolution No. COM 6/1 (MM) relating to the provisional procedure to be applied during the interval between the end of this Conference and the date of entry into force of the Agreement shall be applicable with regard to the transfer of assignments to stations of the maritime mobile service operating in the bands 1 625 - 1 635 kHz, 1 800 -1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz;

3. that if, in examining the frequency assignments notified by administrations under the terms of this Resolution, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in Column 2;

4. that, on the date of entry into force of the frequency assignment Plan for stations of the maritime mobile service annexed to the Agreement adopted by the present Conference, the frequency assignments to stations of the maritime mobile service which have not been transferred in accordance with paragraph 1 above shall continue to be used only on the basis of No. 342 of the Radio Regulations.

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

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espagnol

COMMISSION 5
COMMITTEE 5
COMISION 5

SERVICE MOBILE MARITIME DE LA REGION 1 DANS LES BANDES 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz et 2 045 - 2 160 kHz

Liste des besoins non satisfaits

MARITIME MOBILE SERVICE IN REGION 1 IN THE BANDS 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

List of non-satisfied requirements

SERVICIO MÓVIL MARÍTIMO DE LA REGIÓN 1 EN LAS BANDAS 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Lista de necesidades no satisfechas

Annexe/Annex/Anexo: 1

Renseignements inclus dans les colonnes de la liste des besoins non satisfaits pour le service mobile maritime de la Région 1 dans les bandes 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz et 2 045 - 2 160 kHz

Colonne

0. Numéro de série de l'IFRB

1. Fréquence assignée (kHz)/(fréquence porteuse (kHz) pour J3E)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station côtière d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude de la station d'émission (en degrés et minutes)

7. Zones de service:

   7A: Longitude et latitude (degrés et minutes) du centre de la zone de service et rayon (km) de la zone de service circulaire; ou

   7B: Longitude et latitude (degrés et minutes) de 6 points au maximum délimitant la zone de service.

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance d'émission nécessaire

   10A: puissance apparente rayonnée sur une antenne verticale courte (p.a.r.v.) (dBW)

   (valeur calculée sur la base du champ minimum à protéger et de la portée de service dans les conditions de propagation par onde de sol)

   10B: puissance fournie à la ligne d'alimentation de l'antenne (dBW)

   (valeur calculée: p.a.r.v. + 7 dB (pour la bande des 500 kHz)
   p.a.r.v. + 4 dB (pour la bande des 2 MHz))

11. Caractéristiques de l'antenne

   11A: azimut du rayonnement maximum (ND pour les antennes non directives) (degrés)

   11B: gain maximum de l'antenne (dB)

   11C: angle d'ouverture du lobe principal (degrés)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

Information included in the columns of the list of non-satisfied requirements for the maritime mobile service in Region 1 in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Column

0. IFRB serial number

1. Assigned frequency (kHz)/(carrier frequency (kHz) for J3E)

2. Channel number

3. Country symbol

4. Transmitting coast station name

5. Symbol of the geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Service area:

   7a) Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area; or

   7b) Longitude and latitude (degrees and minutes) of (maximum six) points limiting the service area

8. Nature of service

9. Necessary bandwidth and class of emission

10. Necessary transmitting power:

    10A: effective monopole radiated power (e.m.r.p.) (dBW)

    (calculated value on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

    10B: power supplied to the antenna transmission line (dBW)

    (calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
    e.m.r.p. + 4 dB (for the 2 MHz band)

11. Antenna characteristics

    11A: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

    11B: maximum antenna gain (dB)

    11C: angular width of the main lobe (degrees)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Información incluida en las columnas de la lista de necesidades no satisfechas para el servicio móvil marítimo de la Región 1 en las bandas 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz,1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)/(frecuencia portadora (kHz) para emisión J3E)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación costera transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6 Longitud y latitud (grados y minutos) de la estación transmisora

7. Zona de servicio

   7A: longitud y latitud (grados y minutos) del centro de la zona de servicio y radio (km) de la zona de servicio circular; o

   7B: longitud y latitud (grados y minutos) de puntos (6 como máximo) que limiten la zona de servicio

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión

10. Potencia de transmisión necesaria

   10A: potencia radiada aparente referida a una antena vertical corta (p.r.a.v.) (dBW)

   (valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

   10B: potencia suministrada a la línea de transmisión de la antena (dBW)

   (valor calculado: p.r.a.v. + 7 dB (para bandas de 500 kHz)
   p.r.a.v. + 4 dB (para bandas de 2 MHz))

11. Características de la antena

   11A: azimut de radiación máxima (ND para antena no direccional) (grados)

   11B: ganancia máxima de la antena (dB)

   11C: anchura angular del lóbulo principal (grados)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7		8	9	10A	10B	11A	11B	11C	12	13
2844				AFS LUDERITZ	AFS	015E04 26S38	015E04 26S38	400	CP	2K80J3E			ND			0000 2400	
2848				AFS LUDERITZ	AFS	015E04 26S38	015E04 26S38	400	CP	2K80J3E			ND			0000 2400	
2850				AFS LUDERITZ	AFS	015E04 26S38	015E04 26S38	400	CP	2K80J3E			ND			0000 2400	
2851				AFS LUDERITZ	AFS	015E04 26S38	015E04 26S38	400	CP	2K80J3E			ND			0000 2400	
2266				ALB VLORA PT RADIO	ALB	019E29 40N27	019E29 40N27	150	CP	2K70J3EJN			ND			0000 2400	
2111				ALG ALGER RADIO	ALG	003E18 36N40	003E18 36N40	900	CP	100HA1A			ND			0000 2400	
2167				ALG ALGER RADIO	ALG	003E18 36N40	003E18 36N40	1000	CP	100HA1A			ND			0000 2400	
2127				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	400	CP	304HF1B			ND			0000 2400	
2133				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	400	CP	340HF1B			ND			0000 2400	
2134				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1500	CP	340HF1B			ND			0000 2400	
2135				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1500	CP	340HF1B			ND			0000 2400	
2136				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1500	CP	100HA1A			ND			0000 2400	
2137				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	1500	CP	100HA1A			ND			0000 2400	
2164				ALG ANNABA RADIO	ALG	007E45 36N54	007E45 36N54	400	CP	304HF1B			ND			0000 2400	
2722				ALG ARZEW RADIO	ALG	000W17 35N50	000W17 35N50	100		2K80J3E			ND			0000 2400	
2716				ALG AZZEFOUN RADIO	ALG	004E25 36N51	004E25 36N51	100		2K80J3E			ND			0000 2400	
2152				ALG BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	850	CP	340HF1B			ND			0000 2400	
2155				ALG BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	400	CP	340HF1B			ND			0000 2400	
2158				ALG BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	850	CP	340HF1B			ND			0000 2400	
2185				ALG BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	700	CP	2K80J3E			ND			0000 2400	
2186				ALG BEJAIA RADIO	ALG	005E05 36N45	005E05 36N45	700	CP	2K80J3E			ND			0000 2400	
2710				ALG BENI SAF RADIO	ALG	001W24 35N11	001W24 35N11	100		2K80J3E			ND			0000 2400	
2713				ALG CHERCHELL RADIO	ALG	002E09 36N32	002E09 36N32	100		2K80J3E			ND			0000 2400	
2718				ALG COLLO RADIO	ALG	006E36 37N00	006E36 37N00	100		2K80J3E			ND			0000 2400	
2715				ALG DELLYS RADIO	ALG	003E56 36N53	003E56 36N53	100		2K80J3E			ND			0000 2400	
2717				ALG JIJEL	ALG	005E16 36N40	005E16 36N40	100		2K80J3E			ND			0000 2400	
2712				ALG MOSTAGANEM RADIO	ALG	000E05 35N54	000E05 35N54	100		2K80J3E			ND			0000 2400	
2714				ALG TIPAZA RADIO	ALG	002E27 36N33	002E27 36N33	100		2K80J3E			ND			0000 2400	
2196				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E			ND			0000 2400	
2197				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E			ND			0000 2400	
2206				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E			ND			0000 2400	
2207				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E			ND			0000 2400	
2210				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E			ND			0000 2400	
2211				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	2K99R3E			ND			0000 2400	
2222				BEL ANTWERPEN RADIO	BEL	004E19 51N16	004E19 51N16	500	CP	300HF1B			ND			0000 2400	
2198				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP	2K99R3E			ND			0000 2400	
2199				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP	2K99R3E			ND			0000 2400	
2202				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP	2K99R3E			ND			0000 2400	
2203				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP	2K99R3E			ND			0000 2400	
2204				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11	500	CP	2K99R3E			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2205				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500	CP	2K99R3E			ND			0000 2400	
2208				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500	CP	2K99R3E			ND			0000 2400	
2209				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500	CP	2K99R3E			ND			0000 2400	
2212				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500	CP	2K99R3E			ND			0000 2400	
2213				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 500	CP	2K99R3E			ND			0000 2400	
2219				BEL OOSTENDE RADIO	BEL	002E48 51N11	002E48 51N11 300	CP	300HF1B			ND			0000 2400	
2776				BEN COTONOU	BEN	002E28 06N22	002E28 06N22 500	CP	100HA1A			ND			0800 2200	
2777				BEN COTONOU	BEN	002E28 06N22	002E28 06N22 300	CP	100HA1A			ND			0800 2400	
2666				CME KRIBI	CME	009E43 02N53	009E43 02N53 400	CP	2K80J3E			ND			0700 1900	
2231				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0600 1900	
2232				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0600 1900	
2233				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0600 1900	
2234				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0000 2400	
2235				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0000 2400	
2236				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0000 2400	
2237				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0000 2400	
2238				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0000 2400	
2239				COG POINTE NOIRE RADIO	COG	011E52 04S47		CP				ND			0000 2400	
2862				COG POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44 1000	CP	304HF1B			ND			0000 2400	
2864				COG POINTE NOIRE RADIO	COG	011E51 04S44	011E51 04S44 1000	CP	2K80J3E			ND			0000 2400	
1780			D	FLENSBURG	D	009E41 54N48	005E00 58N00 018E00 58N00 018E00 55N00 015E00 54N00 002E00 51N00	CO	2K80J3E			ND			0000 2400	
1770			D	KIEL RADIO	D	010E08 54N26	010E10 54N30 016E20 54N25 016E10 55N15 015E40 56N10 009E00 57N50 009E00 55N55	CP	2K70J3EJN			ND			0000 2400	
1765			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	2K70J3EJN			ND			0000 2400	
1766			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	2K70J3EJN			ND			0000 2400	
1767			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	2K70J3EJN			ND			0000 2400	
1768			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	2K70J3EJN			ND			0000 2400	
1769			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	2K70J3EJN			ND			0000 2400	
1771			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	304HF1BCN			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1772			D	NORDDEICH RADIO	D	007E12 53N38	008E10 53N00 009E15 56N50 005E30 56N40 001E45 54N30 001E45 52N35 002E55 51N15	CP	304HF1BCN			ND			0000 2400	
1782			D	WILHELMSHAVEN	D	007E37 53N41	005E00 58N00 018E00 58N00 018E00 55N00 015E00 54N00 002E00 51N00	CO	2K80J3E			ND			0000 2400	
342			DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 1000	CP	300HF1B			ND			0000 2400	
347			DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 1000	CP	300HF1B			ND			0000 2400	
348			DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 1000	CP	300HF1B			ND			0000 2400	
352			DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 1000	CP	300HF1B			ND			0000 2400	
353			DDR	RUEGEN	DDR	013E37 54N35	013E37 54N35 1000	CP	300HF1B			ND			0000 2400	
2800			DJI	DJIBOUTI	DJI	043E08 11N36	043E08 11N36 1500	CO	100HA1A			ND			0000 2400	
2040			DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33 350	CP	304HF1B			ND			0000 2400	
2041			DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33 350	CP	304HF1B			ND			0000 2400	
2060			DNK	BLAAVAND	DNK	008E07 55N33	008E07 55N33 350	CP	2K80J3E			ND			0000 2400	
2051			DNK	ROENNE	DNK	015E07 55N03	015E07 55N03 350	CP	2K80J3E			ND			0000 2400	
524			E	TENERIFE RADIO	CNR	016W20 28N25	016W20 28N25 555	CP	100HA1AAN			ND			0000 2400	
466			E	CHIPIONA RADIO	E	006W25 36N42	006W25 36N42 370	CP	2K70J3EJN			ND			0000 2400	
467			E	CHIPIONA RADIO	E	006W25 36N42	006W25 36N42 370	CP	2K70J3EJN			ND			0000 2400	
919			E	CORUNA RADIO	E	008W27 43N22	008W27 43N22 370	CP	2K70J3EJN			ND			0000 2400	
477			E	FINISTERRE RADIO	E	009W16 42N54	009W16 42N54 370	CP	2K70J3EJN			ND			0000 2400	
2555			EGY	ALEXANDRIA RADIO	EGY	00 00	00 00 600	CP	340HF1B			ND			0000 2400	
2806			EGY	ISMAILIA	EGY	032E16 30N35	032E16 30N35 1000	CV	2K00A2B			ND			0000 2400	
2556			EGY	KOSSEIR RADIO	EGY	00 00	00 00 500	CP	340HF1B			ND			0400 2200	
1838			F	AJACCIO	F	008E46 41N56	006E30 40N30 400	CO	2K80J3EJN			ND			0000 2400	
1839			F	AJACCIO	F	008E46 41N56	006E30 40N30 400	CO	2K80J3EJN			ND			0000 2400	
1885			F	ARCACHON	F	001W10 44N39	001W10 44N39 1200	CP	2K80J3E			ND			0000 2400	
1842			F	BAYONNE	F	001W24 43N16	005W00 51N00 300	CO	2K80J3EJN			ND			0000 2400	
1895			F	BOULOGNE MER	F	001E38 50N43	001E37 50N43 1200	CP	2K80J3E			ND			0000 2400	
1844			F	BREST	F	004W14 48N26	004W14 48N26 350	CO	2K80J3EJN			ND			0000 2400	
1845			F	BREST	F	004W14 48N26	004W14 48N26 350	CO	2K80J3EJN			ND			0000 2400	
1847			F	CHERBOURG	F	001W37 49N35	001W37 49N35 350	CO	2K80J3EJN			ND			0000 2400	
1848			F	CHERBOURG	F	001W37 49N35	001W37 49N35 350	CO	2K80J3EJN			ND			0000 2400	
1850			F	DUNKERQUE	F	002E20 51N03	002E20 51N03 150	CO	2K80J3EJN			ND			0000 2400	
1892			F	GRASSE	F	006E55 43N40	006E55 43N40 500	CP	2K80J3E			ND			0000 2400	
1852			F	LA PALLICE	F	000W59 45N56	005W00 51N00 300	CO	2K80J3EJN			ND			0000 2400	
1870			F	LE CONQUET	F	004W44 48N20	004W44 48N20 1200	CP	2K80J3E			ND			0000 2400	
1871			F	LE CONQUET	F	004W44 48N20	004W44 48N20 1200	CP	2K80J3E			ND			0000 2400	
1854			F	LE HAVRE	F	000E06 49N29	000E06 49N29 350	CO	2K80J3EJN			ND			0000 2400	
1856			F	LORIENT	F	003W27 47N44	005W00 51N00 300	CO	2K80J3EJN			ND			0000 2400	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1857			F	LORIENT	F	003W27 47N44 005W00 51N00	300		CO 2K80J3EJN			ND			0000 2400	
1859			F	MARSEILLE	F	005E21 43N14 006E30 40N30	400		CO 2K80J3EJN			ND			0000 2400	
1886			F	MARSEILLE	F	005E21 43N19 005E21 43N19	1200		CP 2K80J3E			ND			0000 2400	
1887			F	MARSEILLE	F	005E21 43N19 005E21 43N19	400		CP 2K80J3E			ND			0000 2400	
1875			F	S MALO	F	002W02 48N38 002W02 48N38	500		CP 2K80J3E			ND			0000 2400	
1882			F	S NAZAIRE	F	002W06 47N20 002W06 47N20	1200		CP 2K80J3E			ND			0000 2400	
1860			F	SETE	F	003E41 43N24 006E30 40N30	400		CO 2K80J3EJN			ND			0000 2400	
1861			F	SETE	F	003E41 43N24 006E30 40N30	400		CO 2K80J3EJN			ND			0000 2400	
1862			F	TOULON	F	006E04 43N08 006E30 40N30	400		CO 2K80J3EJN			ND			0000 2400	
1863			F	TOULON	F	006E04 43N08 006E30 40N30	400		CO 2K80J3EJN			ND			0000 2400	
1864			F	TOULON	F	006E04 43N08 006E30 40N30	400		CO 2K80J3EJN			ND			0000 2400	
413			FNL	MARIEHAMN	FNL	019E57 60N07 019E57 60N07	300		CP 2K70J3E			ND			0000 2400	
414			FNL	MARIEHAMN	FNL	019E57 60N07 019E57 60N07	300		CP 2K70J3E			ND			0000 2400	
295			G	ABERDEEN COASTGUARD	G	002W03 57N08 002W03 57N08	360		OT 2K80J3EJN			ND			0000 2400	
236			G	CAPE WRATH LTSN	G	005W00 58N38 005W00 58N38	150		OT 2K80J3E			ND			0000 2400	
300			G	DOVER COASTGUARD	G	001E22 51N10 001E22 51N10	180		OT 2K80J3EJN			ND			0000 2400	
245			G	FALLS LSTN	G	001E48 51N18 001E48 51N18	150		OT 2K80J3EJN			ND			0000 2400	
308			G	HARTLAND COASTGUARD	G	004W28 50N59 004W28 50N59	180		OT 2K80J3EJN			ND			0000 2400	
309			G	HOLYHEAD COASTGUARD	G	004W38 53N19 004W38 53N19	180		OT 2K80J3EJN			ND			0000 2400	
310			G	HUMBER COASTGUARD	G	000W06 54N07 000W06 54N07	180		OT 2K80J3EJN			ND			0000 2400	
145			G	HUMBER RADIO	G	000E17 53N20 000E17 53N20	160		CP 2K80J3EJN			ND			0000 2400	
313			G	LANDS END COASTGUARD	G	005W41 50N02 005W41 50N02	360		OT 2K80J3EJN			ND			0000 2400	
254			G	LANGNESS LTSN	G	004W37 54N04 004W37 54N04	150		OT 2K80J3E			ND			0000 2400	
314			G	LIVERPOOL COASTGUARD	G	003W03 53N30 003W03 53N30	180		OT 2K80J3EJN			ND			0000 2400	
317			G	MILFORD HAVEN CGUARD	G	005W16 51N41 005W16 51N41	180		OT 2K80J3EJN			ND			0000 2400	
152			G	MILLTOWN	G	003W14 57N40 003W14 57N40	275		CO 2K80J3E			ND			0000 2400	
153			G	MILLTOWN	G	003W14 57N40 003W14 57N40	275		CO 2K80J3E			ND			0000 2400	
154			G	MILLTOWN	G	003W14 57N40 003W14 57N40	275		CO 2K80J3E			ND			0000 2400	
321			G	PORTLAND COASTGUARD	G	002W25 50N33 002W25 50N33	180		OT 2K80J3EJN			ND			0000 2400	
324			G	SHETLAND COASTGUARD	G	001W08 60N09 001W08 60N09	360		OT 2K80J3EJN			ND			0000 2400	
165			G	ST EVAL	G	005W00 50N28 005W00 50N28	275		CO 2K80J3E			ND			0000 2400	
166			G	ST EVAL	G	005W00 50N28 005W00 50N28	275		CO 2K80J3E			ND			0000 2400	
167			G	ST EVAL	G	005W00 50N28 005W00 50N28	275		CO 2K80J3E			ND			0000 2400	
168			G	STONEHAVEN RADIO	G	002W13 56N57 002W13 56N57	240		CP 2K80J3EJN			ND			0000 2400	
329			G	SWANSEA COASTGUARD	G	003W58 51N34 003W58 51N34	180		OT 2K80J3EJN			ND			0000 2400	
330			G	THAMES COASTGUARD	G	001E17 51N51 001E17 51N51	180		OT 2K80J3EJN			ND			0000 2400	
331			G	TYNE TEES COASTGUARD	G	001W33 55N19 001W33 55N19	360		OT 2K80J3EJN			ND			0000 2400	
56			G	GIBRALTAR	GIB	005W21 36N07 005W21 36N07	200		CP 2K80J3E			ND			0000 2400	
2830			GHA	TEMA	GHA	000W00 05N37 000W00 05N37	600		CP 2K80J3E			ND			0000 2400	
434			HOL	SCHEVENINGEN	HOL	004E15 52N06 004E15 52N06	500		CP 280HF1BCN			ND			0000 2400	

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0	1	2	3	4	5	6	7		8	9	10A	10B	11A	11B	11C	12	13
913			I	ANCONA	I	013E28 43N36	013E28 43N36	600	CP	304HF1B			ND			0000 2400	
723			I	ANCONA RADIO	I	013E28 43N36	013E28 43N36	200	CP	2K80J3E			ND			0000 2400	
729			I	AUGUSTA RADIO	I	015E13 37N13	015E13 37N13	200	CP	2K80J3E			ND			0000 2400	
736			I	BARI RADIO	I	016E59 41N05	016E59 41N05	200	CP	2K80J3E			ND			0000 2400	
737			I	BARI RADIO	I	016E59 41N05	016E59 41N05	200	CP	2K80J3E			ND			0000 2400	
743			I	CAGLIARI RADIO	I	009E07 39N15	009E07 39N15	200	CP	2K80J3E			ND			0000 2400	
746			I	CAGLIARI RADIO	I	009E07 39N15	009E07 39N15	200	CP	2K80J3E			ND			0000 2400	
714			I	LA MADDALENA	I	009E20 41N13	009E20 41N13	220	CO	2K80J3E			ND			0000 2400	
771			I	LIVORNO RADIO	I	010E11 43N29	010E11 43N29	200	CP	2K80J3E			ND			0000 2400	
774			I	MAZARA VALLO RADIO	I	012E34 37N38	012E34 37N38	400	CP	2K80J3E			ND			0000 2400	
778			I	MAZARA VALLO RADIO	I	012E34 37N38	012E34 37N38	200	CP	2K80J3E			ND			0000 2400	
785			I	MESSINA RADIO	I	015E33 38N11	015E33 38N11	200	CP	2K80J3E			ND			0000 2400	
788			I	NAPOLI RADIO	I	014E14 40N50	014E14 40N50	200	CP	2K80J3E			ND			0000 2400	
790			I	NAPOLI RADIO	I	014E14 40N50	014E14 40N50	400	CP	2K80J3E			ND			0000 2400	
803			I	PORTO TORRES RADIO	I	008E23 40N50	008E23 40N50	200	CP	2K80J3E			ND			0000 2400	
652			I	ROMA	I	012E22 41N59	012E22 41N59	380	CO	304HF1B			ND			0000 2400	
653			I	ROMA	I	012E22 41N59	012E22 41N59	380	CO	304HF1B			ND			0000 2400	
675			I	ROMA	I	012E31 41N48	012E31 41N48	250	CP	304HF1B			ND			0000 2400	
677			I	ROMA	I	012E31 41N48	012E31 41N48	250	CP	304HF1B			ND			0000 2400	
678			I	ROMA	I	012E31 41N48	012E31 41N48	250	CP	304HF1B			ND			0000 2400	
683			I	ROMA	I	012E22 41N59	012E22 41N59	400	CO	304HF1B			ND			0000 2400	
807			I	S BENEDETTO TRONTO	I	013E52 42N57	013E52 42N57	200	CP	2K80J3E			ND			0000 2400	
809			I	S BENEDETTO TRONTO	I	013E52 42N57	013E52 42N57	200	CP	2K80J3E			ND			0000 2400	
686			I	TARANTO	I	017E25 40N26	017E25 40N26	400	CO	304HF1B			ND			0000 2400	
713			I	TARANTO	I	017E25 40N26	017E25 40N26	220	CO	2K80J3E			ND			0000 2400	
812			I	TRAPANI RADIO	I	012E30 38N01	012E30 38N01	200	CP	2K80J3E			ND			0000 2400	
818			I	TRAPANI RADIO	I	012E30 38N01	012E30 38N01	400	CP	2K80J3E			ND			0000 2400	
2078			ISL	HORNAFJOERDUR RADIO	ISL	015W13 64N15	015W13 64N15	750	CP	3K00H3EJN			ND			0000 2400	
2460			ISR	ELAT RADIO	ISR	034E56 29N30	034E56 29N30	1000	CP	2K99R3E			ND			0000 2400	
2287			ISR	HAIFA RADIO	ISR	035E00 32N48	035E00 32N48	1000	CP	2K99R3E			ND			0000 2400	
2289			ISR	HAIFA RADIO	ISR	035E00 32N48	035E00 32N48	1000	CP	2K99R3E			ND			0000 2400	
2821			KWT	AHMADI	KWT	048E04 29N06	048E04 29N06	800	CV	100HA1A			ND			0400 1900	
2817			KWT	HUBAN	KWT	047E41 29N31	029E51 31N11	800	CP	2K10A1B			ND			0000 2400	
2818			KWT	HUBAN	KWT	047E41 29N31	047E41 29N31	500	CP	2K80J3E			ND			0300 2100	
2820			KWT	RAS LA KHAFJI	KWT	048E56 28N28	048E56 28N28	800	CV	1K15A1B			ND			0500 1600	
2819			KWT	SHOWAIKH	KWT	047E59 29N23	047E59 29N23	800	CP	2K00A1B			ND			0400 1900	
2838			LBN	BEYROUTH KHALD	LBN	035E29 33N48	035E29 33N48	400	CP	2K80J3E			ND			0000 2400	
2922			LBY	BENGHAZI PORT	LBY	020E04 32N03	020E04 32N03	300	CV	100HA1A			ND			0000 2400	
2921			LBY	BENGHAZI RADIO	LBY	020E04 32N07	020E04 32N07	450	CP	100HA1A			ND			0000 2400	
2919			LBY	TRIPOLI RADIO	LBY	013E11 32N54	013E11 32N54	450	CP	100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2920				LBY TRIPOLI RADIO	LBY	013E11 32N54	013E11 32N54 250		CV 100HA1A			ND			0000 2400	
2422				MLT XLOKK RADIO	MLT	014E32 35N49	014E32 35N49 1000		CP 2K80J3EJN			ND			0000 2400	
867				MRC DAKHLA	MRC	015W56 23N42	015W56 23N42 350		CP 2K80H3E			ND			0000 2400	
2545				MRC MDIQ RADIO	MRC	005W20 35N40	005W20 35N40 100		CP			ND			0000 2400	
1714				NOR BERGEN	NOR	005E22 60N25	005E22 60N25 370		CP 3K00J3E			ND			0800 1800	
1715				NOR BERGEN	NOR	005E22 60N25	005E22 60N25 370		CP 3K00J3E			ND			0800 1800	
1721				NOR FARSUND	NOR	006E45 58N04	006E45 58N04 370		CP 3K00J3E			ND			0800 1800	
1722				NOR FARSUND	NOR	006E45 58N04	006E45 58N04 370		CP 3K00J3E			ND			0800 1800	
1723				NOR FARSUND	NOR	007E59 58N04	007E59 58N04 370		CP 3K00J3E			ND			0800 1800	
1691				NOR FLOROE	NOR	005E00 61N36	005E00 61N36 370		CP 3K00J3E			ND			0000 2400	
1716				NOR FLOROE	NOR	005E00 61N36	005E00 61N36 370		CP 3K00J3E			ND			0800 1800	
1719				NOR FLOROE	NOR	005E00 61N36	005E00 61N36 370		CP 3K00J3E			ND			0800 1800	
1724				NOR ROGALAND	NOR	005E34 58N48	005E34 58N48 180		CP 3K00J3E			ND			0800 1800	
1725				NOR ROGALAND	NOR	005E34 58N48	005E34 58N48 180		CP 3K00J3E			ND			0800 1800	
1726				NOR ROGALAND	NOR	005E34 58N48	005E34 58N48 180		CP 3K00J3E			ND			0800 1800	
1727				NOR ROGALAND	NOR	005E05 59N26	005E05 59N26 180		CP 3K00J3E			ND			0800 1800	
2305				POL GDYNIA	POL	018E32 54N32	018E32 54N32 500		CR 2K70J3EJN			ND			0000 2400	
2306				POL HEL	POL	018E48 54N36	018E48 54N36 350		CV 2K70J3EJN			ND			0000 2400	
2307				POL IZBICA	POL	017E25 54N41	017E25 54N41 450		OT 2K70J3EJN			ND			0000 2400	
2308				POL JAROSLAWIEC	POL	016E34 54N33	016E34 54N33 500		OT 2K70J3EJN			ND			0000 2400	
2309				POL KARWIA	POL	018E14 54N50	018E14 54N50 500		OT 2K70J3EJN			ND			0000 2400	
2311				POL KOLOBRZEG	POL	015E34 54N11	015E34 54N11 350		CV 2K70J3EJN			ND			0000 2400	
2312				POL KOLOBRZEG	POL	015E33 54N10	015E33 54N10 350		CV 2K70J3EJN			ND			0000 2400	
2314				POL KRYNICA MORSKA	POL	019E26 54N23	019E26 54N23 600		OT 2K70J3EJN			ND			0000 2400	
2316				POL LAZY	POL	016E12 54N18	016E12 54N18 600		OT 2K70J3EJN			ND			0000 2400	
2317				POL LEBA	POL	017E32 54N44	017E32 54N44 350		CV 2K70J3EJN			ND			0000 2400	
2342				POL SZCZECIN	POL	014E35 53N28	014E35 53N28 1000		CP 2K70J3EJN			ND			0000 2400	
2343				POL USTKA	POL	016E52 54N34	016E52 54N34 350		CV 2K70J3EJN			ND			0000 2400	
2344				POL USTKA	POL	016E52 54N34	016E52 54N34 350		CV 2K70J3EJN			ND			0000 2400	
2824				SRL FREETOWN	SRL	013W15 08N29	013W15 08N29 800		CP 100HA1A			ND			0700 2400	
2925				TGO LOME RADIO	TGO	001E30 06N36	001E30 06N36 100		CP 2K80J3E			400.0			0000 2400	
2406				TUN BIZERTE RADIO	TUN	009E53 37N16	005E21 43N19 003E18 36N40 007E45 36N54 013E22 38N07 008E56 44N25 014E14 40N50		CP 2K70J3EJN			ND			0600 1900	
2407				TUN BIZERTE RADIO	TUN	009E53 37N16	005E21 43N19 003E18 36N40 007E45 36N54 013E22 38N07 008E56 44N25 014E14 40N50		CP 2K70J3EJN			ND			0600 1900	
2408				TUN BIZERTE RADIO	TUN	009E53 37N16	005E21 43N19 003E18 36N40 007E45 36N54 013E22 38N07 008E56 44N25 014E14 40N50		CP 2K70J3EJN			ND			0600 1900	
2741				TUN BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16 300		CP 2K70J3EJN			ND			0600 1900	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2743				TUN BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16 300	CP	2K70J3EJN			ND			0600 1900	
2745				TUN BIZERTE RADIO	TUN	009E53 37N16	009E53 37N16 300	CP	2K70J3EJN			ND			0600 1900	
2877				TUN C BLANC	TUN	009E50 37N20	009E50 37N20 50	CO	2K80J3E			ND			0000 2400	
2748				TUN GABES RADIO	TUN	007E45 33N53	007E45 33N53 300	CP	2K70J3EJN			ND			0600 1900	
2749				TUN GABES RADIO	TUN	007E45 33N53	007E45 33N53 300	CP	2K70J3EJN			ND			0600 1900	
2394				TUN KELIBIA RADIO	TUN	008E46 36N50	014E29 35N55 020E03 32N07	CP	2K70J3EJN			ND			0600 1900	
							013E11 32N54 009E14 39N13									
							013E22 38N07 025E07 35N20									
2740				TUN KELIBIA RADIO	TUN	008E46 36N50	008E46 36N50 300	CP	100HA1A			ND			0600 1900	
2742				TUN KELIBIA RADIO	TUN	008E46 36N50	008E46 36N50 300	CP	2K70J3EJN			ND			0600 1900	
2744				TUN KELIBIA RADIO	TUN	008E46 36N50	008E46 36N50 300	CP	2K70J3EJN			ND			0600 1900	
2881				TUN LA GOULETTE	TUN	010E11 36N48	010E11 36N48 200	CO	2K80J3E			ND			0000 2400	
2395				TUN MAHDIA RADIO	TUN	011E04 35N30	010E11 36N53 014E21 35N53	CP	2K70J3EJN			ND			0600 1900	
							012E34 37N38 012E30 38N01									
							020E03 32N07 013E11 32N54									
2746				TUN MAHDIA RADIO	TUN	011E04 35N30	011E04 35N30 300	CP	2K70J3EJN			ND			0600 1900	
2747				TUN MAHDIA RADIO	TUN	011E04 35N30	011E04 35N30 300	CP	2K70J3EJN			ND			0600 1900	
2752				TUN MAHDIA RADIO	TUN	011E04 35N30	011E04 35N30 300	CP	2K70J3EJN			ND			0600 1900	
2754				TUN MAHDIA RADIO	TUN	011E04 35N30	011E04 35N30 300	CP	2K70J3EJN			ND			0600 1900	
2397				TUN MAHDIA RADIO PORT	TUN	011E04 35N30	010E11 36N53 014E21 35N53	CR	2K70J3EJN			ND			0600 1900	
							012E34 37N38 012E30 38N01									
							020E03 32N07 013E11 32N54									
2878				TUN SFAX	TUN	010E46 34N44	010E46 34N44 50	CO	2K80J3E			ND			0000 2400	
2402				TUN SFAX RADIO	TUN	010E44 34N44	010E11 36N53 014E32 35N49	CP	2K70J3EJN			ND			0600 2400	
							013E11 32N54 012E31 41N48									
							009E14 39N13 014E14 40N50									
2403				TUN SFAX RADIO	TUN	010E44 34N44	010E11 36N53 014E32 35N49	CP	2K70J3EJN			ND			0600 2400	
							013E11 32N54 012E31 41N48									
							009E14 39N13 014E14 40N50									
2760				TUN SFAX RADIO	TUN	010E44 34N44	010E44 34N44 300	CP	2K70J3EJN			ND			0600 2400	
2761				TUN SFAX RADIO	TUN	010E44 34N44	010E44 34N44 300	CP	2K70J3EJN			ND			0600 2400	
2763				TUN SFAX RADIO	TUN	010E44 34N44	010E44 34N44 300	CP	2K70J3EJN			ND			0600 2400	
2765				TUN SFAX RADIO	TUN	010E44 34N44	010E44 34N44 300	CP	2K70J3EJN			ND			0600 2400	
2879				TUN SOUSSE	TUN	010E38 35N49	010E38 35N49 200	CO	2K80J3E			ND			0000 2400	
2753				TUN TABARKA RADIO	TUN	006E25 36N57	006E25 36N57 300	CP	2K70J3EJN			ND			0600 1900	
2756				TUN TABARKA RADIO	TUN	006E25 36N57	006E25 36N57 300	CP	2K70J3EJN			ND			0600 1900	
2418				TUN TUNIS RADIO	TUN	010E11 36N53	003E18 36N40 001E54 41N16	CP	2K70J3EJN			ND			0000 2400	
							020E03 32N07 033E26 35N09									
							005E21 43N19 012E31 41N48									
2685				TUN TUNIS RADIO	TUN	010E11 36N53	003E18 36N40 001E54 41N16	CP	2K70J3E							
							020E03 32N07 033E26 35N09									
							005E21 43N19 012E31 41N48									

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2767				TUN TUNIS RADIO	TUN	010E11 36N53	010E11 36N53	300	CP	2K70J3EJN		ND			0000 2400	
2769				TUN TUNIS RADIO	TUN	010E11 36N53	010E11 36N53	300	CP	2K70J3EJN		ND			0000 2400	
2770				TUN TUNIS RADIO	TUN	010E11 36N53	010E11 36N53	300	CP	2K70J3EJN		ND			0000 2400	
2871				TUN TUNIS RADIO	TUN	010E11 36N53	010E11 36N53	1000	CP	304HF1BCN		ND			0000 2400	
2417				TUN TUNIS RADIO PORT	TUN	010E11 36N53	003E18 36N40 001E54 41N16 020E03 32N07 033E26 35N09 005E21 43N19 012E31 41N48		CR	2K70J3EJN		ND			0000 2400	
2487				TUR ISTANBUL	TUR	028E56 41N04	028E56 41N04	400	CP	304HF1BCN		ND			0000 2400	
1040				URS BELGOROD-DNESTROVSKY	UKR	030E22 46N11	030E22 46N11	200	CO	304HF1B		ND			0000 2400	
1071				URS BELGOROD-DNESTROVSKY	UKR	030E22 46N11	030E22 46N11	200	CO	304HF1B		ND			0000 2400	
1056				URS BERDIANSK	UKR	036E48 46N47	036E48 46N47	200	CP	304HF1B		ND			0000 2400	
964				URS EVPATORIIA	UKR	033E18 45N13	033E18 45N13	200	CO	304HF1B		ND			0000 2400	
932				URS FEODOSIIA	UKR	035E20 45N02	035E20 45N02	200	CO	304HF1B		ND			0000 2400	
1052				URS GENITCHESK	UKR	034E48 46N12	034E48 46N12	200	CP	304HF1B		ND			0000 2400	
1053				URS GENITCHESK	UKR	034E48 46N12	034E48 46N12	700	CO	2K35J3E		ND			0000 2400	
935				URS IALTA	UKR	034E10 44N39	034E10 44N39	200	CO	304HF1B		ND			0000 2400	
936				URS IALTA	UKR	034E10 44N39	034E10 44N39	200	CO	100HA1A		ND			0000 2400	
937				URS IALTA	UKR	034E10 44N39	034E10 44N39	200	CP	100HA1A		ND			0000 2400	
943				URS IALTA	UKR	034E10 44N39	034E10 44N39	200	CO	304HF1B		ND			0000 2400	
945				URS IALTA	UKR	034E10 44N39	034E10 44N39	200	CO	304HF1B		ND			0000 2400	
947				URS IALTA	UKR	034E10 44N39	034E10 44N39	350	CP	304HF1B		ND			0000 2400	
949				URS IALTA	UKR	034E10 44N39	034E10 44N39	350	CP	304HF1B		ND			0000 2400	
951				URS IALTA	UKR	034E10 44N39	034E10 44N39	350	CP	304HF1B		ND			0000 2400	
1001				URS ILITCHEVSK	UKR	030E41 46N19	030E41 46N19	200	CP	304HF1B		ND			0000 2400	
1076				URS ILITCHEVSK	UKR	030E41 46N19	030E41 46N19	200	CO	304HF1B		ND			0000 2400	
1024				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	200	CO	304HF1B		ND			0000 2400	
1026				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	200	CO	304HF1B		ND			0000 2400	
1027				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	200	CO	100HA1A		ND			0000 2400	
1028				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	700	CP	2K35J3E		ND			0000 2400	
1030				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	350	CO	304HF1B		ND			0000 2400	
1032				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	350	CP	304HF1B		ND			0000 2400	
1034				URS IZMAIL	UKR	028E51 45N20	028E51 45N20	350	CP	304HF1B		ND			0000 2400	
1060				URS JDANOV	UKR	037E31 47N08	037E31 47N08	700	CO	2K35J3E		ND			0000 2400	
1061				URS JDANOV	UKR	037E31 47N08	037E31 47N08	700	CP	2K35J3E		ND			0000 2400	
1063				URS JDANOV	UKR	037E31 47N08	037E31 47N08	350	CO	304HF1B		ND			0000 2400	
1065				URS JDANOV	UKR	037E31 47N08	037E31 47N08	350	CP	304HF1B		ND			0000 2400	
1067				URS JDANOV	UKR	037E31 47N08	037E31 47N08	350	CP	304HF1B		ND			0000 2400	
1069				URS JDANOV	UKR	037E31 47N08	037E31 47N08	350	CP	304HF1B		ND			0000 2400	
1073				URS JDANOV	UKR	037E31 47N08	037E31 47N08	350	CO	304HF1B		ND			0000 2400	
923				URS KERTCH	UKR	036E28 45N22	036E28 45N22	350	CO	304HF1B		ND			0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 9 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
924				URS KERTCH	UKR	036E28 45N22 036E28 45N22	350	CO	100HA1A			ND			0000 2400	
925				URS KERTCH	UKR	036E28 45N22 036E28 45N22	350	CO	304HF1B			ND			0000 2400	
928				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CP	304HF1B			ND			0000 2400	
929				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CP	100HA1A			ND			0000 2400	
930				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CP	304HF1B			ND			0000 2400	
931				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CP	100HA1A			ND			0000 2400	
1042				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	100HA1A			ND			0000 2400	
1043				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	304HF1B			ND			0000 2400	
1044				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	100HA1A			ND			0000 2400	
1045				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	304HF1B			ND			0000 2400	
1046				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	304HF1B			ND			0000 2400	
1048				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	304HF1B			ND			0000 2400	
1049				URS KERTCH	UKR	036E28 45N22 036E28 45N22	200	CO	100HA1A			ND			0000 2400	
980				URS KHERSON	UKR	032E34 46N39 032E34 46N39	200	OT	304HF1B			ND			0000 2400	
983				URS KHERSON	UKR	032E34 46N39 032E34 46N39	200	CO	304HF1B			ND			0000 2400	
984				URS KHERSON	UKR	032E34 46N39 032E34 46N39	200	CO	100HA1A			ND			0000 2400	
985				URS KHERSON	UKR	032E34 46N39 032E34 46N39	200	CP	304HF1B			ND			0000 2400	
1036				URS KILIIA	UKR	029E15 45N26 029E15 45N26	200	CP	304HF1B			ND			0000 2400	
1037				URS KILIIA	UKR	029E15 45N26 029E15 45N26	200	CP	100HA1A			ND			0000 2400	
1038				URS KILIIA	UKR	029E15 45N26 029E15 45N26	200	CP	304HF1B			ND			0000 2400	
967				URS NIKOLAEV	UKR	032E00 46N57 032E00 46N57	200	CO	304HF1B			ND			0000 2400	
970				URS NIKOLAEV	UKR	032E00 46N57 032E00 46N57	200	CO	304HF1B			ND			0000 2400	
971				URS NIKOLAEV	UKR	032E00 46N57 032E00 46N57	200	CO	100HA1A			ND			0000 2400	
972				URS NIKOLAEV	UKR	032E00 46N57 032E00 46N57	200	CO	304HF1B			ND			0000 2400	
1006				URS ODESSA	UKR	030E45 46N29 030E45 46N29	700	OT	2K35J3E			ND			0000 2400	
1008				URS ODESSA	UKR	030E45 46N29 030E45 46N29	700	CP	2K35J3E			ND			0000 2400	
1009				URS ODESSA	UKR	030E45 46N29 030E45 46N29	350	OT	304HF1B			ND			0000 2400	
1011				URS ODESSA	UKR	030E45 46N29 030E45 46N29	350	CO	304HF1B			ND			0000 2400	
1013				URS ODESSA	UKR	030E45 46N29 030E45 46N29	350	OT	304HF1B			ND			0000 2400	
1015				URS ODESSA	UKR	030E45 46N29 030E45 46N29	350	CP	304HF1B			ND			0000 2400	
1017				URS ODESSA	UKR	030E45 46N29 030E45 46N29	350	CP	304HF1B			ND			0000 2400	
992				URS OTCHAKOV	UKR	031E30 46N37 031E30 46N37	200	CO	304HF1B			ND			0000 2400	
994				URS OTCHAKOV	UKR	031E30 46N37 031E30 46N37	200	CO	304HF1B			ND			0000 2400	
996				URS OTCHAKOV	UKR	031E30 46N37 031E30 46N37	200	CP	304HF1B			ND			0000 2400	
1020				URS RENI	UKR	028E18 45N29 028E18 45N29	200	CO	304HF1B			ND			0000 2400	
1021				URS RENI	UKR	028E18 45N29 028E18 45N29	200	CO	100HA1A			ND			0000 2400	
954				URS SEVASTOPOL	UKR	033E32 44N34 033E32 44N34	350	OT	304HF1B			ND			0000 2400	
955				URS SEVASTOPOL	UKR	033E32 44N34 033E32 44N34	350	OT	100HA1A			ND			0000 2400	
956				URS SEVASTOPOL	UKR	033E32 44N34 033E32 44N34	350	CO	304HF1B			ND			0000 2400	
958				URS SEVASTOPOL	UKR	033E32 44N34 033E32 44N34	350	CO	304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
960			URS	SEVASTOPOL	UKR	033E32 44N34	033E32 44N34	200	CO 304HF1B			ND			0000 2400	
961			URS	SEVASTOPOL	UKR	033E32 44N34	033E32 44N34	200	CO 100HA1A			ND			0000 2400	
962			URS	SEVASTOPOL	UKR	033E32 44N34	033E32 44N34	200	CO 304HF1B			ND			0000 2400	
987			URS	SKADOVSK	UKR	032E56 46N07	032E56 46N07	200	CO 304HF1B			ND			0000 2400	
988			URS	SKADOVSK	UKR	032E56 46N07	032E56 46N07	200	CO 100HA1A			ND			0000 2400	
989			URS	SKADOVSK	UKR	032E56 46N07	032E56 46N07	200	CO 304HF1B			ND			0000 2400	
975			URS	TCHERNOMORSKOE	UKR	032E43 45N30	032E43 45N30	200	OT 304HF1B			ND			0000 2400	
977			URS	TCHERNOMORSKOE	UKR	032E43 45N30	032E43 45N30	200	CO 304HF1B			ND			0000 2400	
978			URS	TCHERNOMORSKOE	UKR	032E43 45N30	032E43 45N30	200	CO 100HA1A			ND			0000 2400	
1156			URS	ANAPA	URS	037E20 44N54	037E20 44N54	200	CO 304HF1B			ND			0000 2400	
1158			URS	ANAPA	URS	037E20 44N54	037E20 44N54	200	CO 304HF1B			ND			0000 2400	
1172			URS	ANAPA	URS	037E20 44N54	037E20 44N54	200	OT 100HA1A			ND			0000 2400	
1173			URS	ANAPA	URS	037E20 44N54	037E20 44N54	200	OT 304HF1B			ND			0000 2400	
1174			URS	ANAPA	URS	037E20 44N54	037E20 44N54	200	CO 100HA1A			ND			0000 2400	
1175			URS	ANAPA	URS	037E20 44N54	037E20 44N54	200	CO 304HF1B			ND			0000 2400	
1326			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	350	CO 304HF1B			ND			0000 2400	
1328			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	350	CP 304HF1B			ND			0000 2400	
1330			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	200	OT 304HF1B			ND			0000 2400	
1332			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	500	CO 304HF1B			ND			0000 2400	
1334			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	350	CO 304HF1B			ND			0000 2400	
1336			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	500	CP 304HF1B			ND			0000 2400	
1340			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	700	CP 2K35J3E			ND			0000 2400	
1341			URS	ARKHANGHELSK	URS	040E37 64N36	040E37 64N36	700	CO 2K35J3E			ND			0000 2400	
1097			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CO 2K35J3E			ND			0000 2400	
1178			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CP 304HF1B			ND			0000 2400	
1180			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CP 304HF1B			ND			0000 2400	
1183			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CO 304HF1B			ND			0000 2400	
1184			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CO 100HA1A			ND			0000 2400	
1185			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	CO 304HF1B			ND			0000 2400	
1187			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	350	OT 304HF1B			ND			0000 2400	
1189			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	700	CO 2K35J3E			ND			0000 2400	
1274			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	200	CO 100HA1A			ND			0000 2400	
1275			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	200	CO 304HF1B			ND			0000 2400	
1277			URS	ASTRAKHAN	URS	047E42 46N55	047E42 46N55	200	CO 304HF1B			ND			0000 2400	
1292			URS	ATCHUEVO	URS	037E27 45N43	037E27 45N43	200	CO 304HF1B			ND			0000 2400	
1294			URS	ATCHUEVO	URS	037E27 45N43	037E27 45N43	200	CO 304HF1B			ND			0000 2400	
1201			URS	AZOV	URS	039E25 45N53	039E25 45N53	200	CO 304HF1B			ND			0000 2400	
1204			URS	AZOV	URS	039E25 45N53	039E25 45N53	200	CO 304HF1B			ND			0000 2400	
1100			URS	BAKU	URS	049E45 40N20	049E45 40N20	700	CO 2K35J3E			ND			0000 2400	
1224			URS	BAKU	URS	049E45 40N20	049E45 40N20	350	CP 304HF1B			ND			0000 2400	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 11 03/11/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1226				URS BAKU	URS	049E45 40N20	049E45 40N20	350	CP 304HF1B			ND			0000 2400	
1228				URS BAKU	URS	049E45 40N20	049E45 40N20	350	CO 304HF1B			ND			0000 2400	
1229				URS BAKU	URS	049E45 40N20	049E45 40N20	350	CO 100HA1A			ND			0000 2400	
1230				URS BAKU	URS	049E45 40N20	049E45 40N20	350	CO 304HF1B			ND			0000 2400	
1232				URS BAKU	URS	049E45 40N20	049E45 40N20	350	OT 304HF1B			ND			0000 2400	
1234				URS BAKU	URS	049E45 40N20	049E45 40N20	350	OT 304HF1B			ND			0000 2400	
1238				URS BAKU	URS	049E45 40N20	049E45 40N20	700	CO 2K35J3E			ND			0000 2400	
1112				URS BATUMI	URS	041E19 41N39	041E19 41N39	700	CO 2K35J3E			ND			0000 2400	
1113				URS BATUMI	URS	041E19 41N39	041E19 41N39	700	CP 2K35J3E			ND			0000 2400	
1114				URS BATUMI	URS	041E19 41N39	041E19 41N39	200	OT 304HF1B			ND			0000 2400	
1116				URS BATUMI	URS	041E19 41N39	041E19 41N39	200	CO 304HF1B			ND			0000 2400	
1118				URS BATUMI	URS	041E19 41N39	041E19 41N39	350	CO 304HF1B			ND			0000 2400	
1120				URS BATUMI	URS	041E19 41N39	041E19 41N39	350	CP 304HF1B			ND			0000 2400	
1272				URS BEKTACH	URS	052E34 41N37	052E34 41N37	200	CO 304HF1B			ND			0000 2400	
1583				URS BEKTACH	URS	052E34 41N37	052E34 41N37	200	CO 304HF1B			ND			0000 2400	
1471				URS BELOMORSK	URS	034E41 64N36	034E41 64N36	200	CO 304HF1B			ND			0000 2400	
1473				URS BELOMORSK	URS	034E41 64N36	034E41 64N36	200	OT 304HF1B			ND			0000 2400	
1475				URS BELOMORSK	URS	034E41 64N36	034E41 64N36	200	CO 304HF1B			ND			0000 2400	
1196				URS EISK	URS	038E15 46N41	038E15 46N41	700	CO 2K35J3E			ND			0000 2400	
1197				URS EISK	URS	038E15 46N41	038E15 46N41	200	CO 304HF1B			ND			0000 2400	
1199				URS EISK	URS	038E15 46N41	038E15 46N41	200	CO 304HF1B			ND			0000 2400	
1200				URS EISK	URS	038E15 46N41	038E15 46N41	200	CO 100HA1A			ND			0000 2400	
1242				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CP 100HA1A			ND			0000 2400	
1243				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CP 304HF1B			ND			0000 2400	
1244				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CP 100HA1A			ND			0000 2400	
1245				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CP 304HF1B			ND			0000 2400	
1247				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	700	CO 2K35J3E			ND			0000 2400	
1249				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CP 304HF1B			ND			0000 2400	
1251				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CP 304HF1B			ND			0000 2400	
1253				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CO 304HF1B			ND			0000 2400	
1256				URS FORT SHEVTCHENKO	URS	050E18 44N30	050E18 44N30	200	CO 304HF1B			ND			0000 2400	
1136				URS GELENDJIK	URS	038E06 44N35	038E06 44N35	700	CO 2K35J3E			ND			0000 2400	
1080				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 100HF1B			ND			0000 2400	
1082				URS GURIEV	URS	051E55 47N03	051E55 47N03	700	CO 2K35J3E			ND			0000 2400	
1083				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 304HF1B			ND			0000 2400	
1085				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 304HF1B			ND			0000 2400	
1258				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CP 304HF1B			ND			0000 2400	
1260				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CP 304HF1B			ND			0000 2400	
1284				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 304HF1B			ND			0000 2400	
1285				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 100HA1A			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1286				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 304HF1B			ND			0000 2400	
1287				URS GURIEV	URS	051E55 47N03	051E55 47N03	200	CO 100HA1A			ND			0000 2400	
1522				URS HAAPSALU	URS	023E21 58N34	023E21 58N34	700	CO 2K35J3E			ND			0000 2400	
1107				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	700	OT 2K35J3E			ND			0000 2400	
1418				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	700	CO 2K35J3E			ND			0000 2400	
1421				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	200	CO 304HF1B			ND			0000 2400	
1422				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	OT 100HA1A			ND			0000 2400	
1423				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	OT 304HF1B			ND			0000 2400	
1424				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	CO 304HF1B			ND			0000 2400	
1425				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	CO 100HA1A			ND			0000 2400	
1426				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	CO 304HF1B			ND			0000 2400	
1428				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	CP 304HF1B			ND			0000 2400	
1430				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	350	CP 304HF1B			ND			0000 2400	
1432				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	700	CO 2K35J3E			ND			0000 2400	
1433				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	700	CP 2K35J3E			ND			0000 2400	
1434				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	700	CO 2K35J3E			ND			0000 2400	
1435				URS KALININGRAD	URS	020E30 54N45	020E30 54N45	700	CO 304HF1B			ND			0000 2400	
1367				URS KANDALAKCHA	URS	032E29 67N10	032E29 67N10	200	CP 304HF1B			ND			0000 2400	
1370				URS KANDALAKCHA	URS	032E29 67N10	032E29 67N10	200	CP 304HF1B			ND			0000 2400	
1486				URS KESTENGA	URS	032E00 65N55	032E00 65N55	200	CO 304HF1B			ND			0000 2400	
1488				URS KESTENGA	URS	032E00 65N55	032E00 65N55	200	CO 304HF1B			ND			0000 2400	
1088				URS KHUDAT	URS	048E39 41N38	048E39 41N38	200	CO 304HF1B			ND			0000 2400	
1090				URS KHUDAT	URS	048E39 41N38	048E39 41N38	200	CO 304HF1B			ND			0000 2400	
1448				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 304HF1B			ND			0000 2400	
1458				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 304HF1B			ND			0000 2400	
1459				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 304HF1B			ND			0000 2400	
1460				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 100HA1A			ND			0000 2400	
1461				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 304HF1B			ND			0000 2400	
1462				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	200	CO 100HA1A			ND			0000 2400	
1463				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	700	CO 2K35J3E			ND			0000 2400	
1464				URS KINGISEPP	URS	022E33 58N15	022E33 58N15	700	CO 2K35J3E			ND			0000 2400	
1379				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CP 304HF1B			ND			0000 2400	
1381				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CP 304HF1B			ND			0000 2400	
1382				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CP 100HA1A			ND			0000 2400	
1383				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	700	CO 2K35J3E			ND			0000 2400	
1384				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	700	CP 2K35J3E			ND			0000 2400	
1386				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	700	CP 304HF1B			ND			0000 2400	
1560				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	700	CO 2K35J3E			ND			0000 2400	
1561				URS KLAIPEDA	URS	021E12 55N46	021E12 55N46	200	CO 304HF1B			ND			0000 2400	
1563				URS KLAIPEDA	URS	021E12 55N46	021E12 55N52	200	CO 304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1564			URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CO 304HF1B			ND			0000 2400	
1566			URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CO 304HF1B			ND			0000 2400	
1568			URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CO 304HF1B			ND			0000 2400	
1570			URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	350	CP 304HF1B			ND			0000 2400	
1577			URS	KLAIPEDA	URS	021E12 55N46	021E12 55N46	200	CP 100HA1A			ND			0000 2400	
1500			URS	KOLGUEV	URS	049E07 69N30	049E07 69N30	350	OT 304HF1B			ND			0000 2400	
1263			URS	KRASNOVODSK	URS	052E57 40N00	052E57 40N00	200	CO 304HF1B			ND			0000 2400	
1265			URS	KRASNOVODSK	URS	052E57 40N00	052E57 40N00	200	CO 304HF1B			ND			0000 2400	
1267			URS	KRASNOVODSK	URS	052E57 40N00	052E57 40N00	200	CP 304HF1B			ND			0000 2400	
1269			URS	KRASNOVODSK	URS	052E57 40N00	052E57 40N00	700	CP 2K35J3E			ND			0000 2400	
1270			URS	KRASNOVODSK	URS	052E57 40N00	052E57 40N00	700	CP 2K35J3E			ND			0000 2400	
1507			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	700	CO 2K35J3E			ND			0000 2400	
1509			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	350	CP 304HF1B			ND			0000 2400	
1511			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	200	CO 304HF1B			ND			0000 2400	
1514			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	350	CP 304HF1B			ND			0000 2400	
1515			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	350	CP 304HF1B			ND			0000 2400	
1517			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	700	CP 2K35J3E			ND			0000 2400	
1519			URS	LENINGRAD	URS	030E21 59N59	030E21 59N59	700	CO 2K35J3E			ND			0000 2400	
1402			URS	LIEPAIA	URS	021E02 56N43	021E02 56N43	700	CO 2K35J3E			ND			0000 2400	
1405			URS	LIEPAIA	URS	021E02 56N43	021E02 56N43	350	CO 304HF1B			ND			0000 2400	
1407			URS	LIEPAIA	URS	021E02 56N43	021E02 56N43	350	CO 304HF1B			ND			0000 2400	
1494			URS	LODEINOE	URS	033E34 60N43	033E34 60N43	200	CO 304HF1B			ND			0000 2400	
1496			URS	LODEINOE	URS	033E34 60N43	033E34 60N43	200	CO 304HF1B			ND			0000 2400	
1504			URS	LODEINOE	URS	033E34 60N43	033E34 60N43	700	CO 2K35J3E			ND			0000 2400	
1091			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	200	CO 100HA1A			ND			0000 2400	
1092			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	200	CO 304HF1B			ND			0000 2400	
1093			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	200	CO 100HA1A			ND			0000 2400	
1094			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	200	CO 304HF1B			ND			0000 2400	
1209			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CP 304HF1B			ND			0000 2400	
1211			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CP 304HF1B			ND			0000 2400	
1213			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CO 304HF1B			ND			0000 2400	
1215			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CO 304HF1B			ND			0000 2400	
1217			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	CO 304HF1B			ND			0000 2400	
1219			URS	MAKHATCHKALA	URS	047E30 42N59	047E30 42N59	350	OT 304HF1B			ND			0000 2400	
1534			URS	MEDVEJIEGORSK	URS	034E26 62N56	034E26 62N56	350	CO 304HF1B			ND			0000 2400	
1537			URS	MEDVEJIEGORSK	URS	034E26 62N56	034E26 62N56	350	CO 304HF1B			ND			0000 2400	
1354			URS	MEZEN	URS	044E17 65N51	044E17 65N51	700	CO 2K35J3E			ND			0000 2400	
1355			URS	MEZEN	URS	044E17 65N51	044E17 65N51	200	CP 304HF1B			ND			0000 2400	
1357			URS	MEZEN	URS	044E17 65N51	044E17 65N51	200	CO 304HF1B			ND			0000 2400	
1359			URS	MEZEN	URS	044E17 65N51	044E17 65N51	200	CO 304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1098				URS MUMRA	URS	047E41 45N45	047E41 45N45	700	CO 2K35J3E			ND			0000 2400	
1289				URS MUMRA	URS	047E41 45N45	047E41 45N45	200	CO 304HF1B			ND			0000 2400	
1291				URS MUMRA	URS	047E41 45N45	047E41 45N45	200	CO 304HF1B			ND			0000 2400	
1314				URS MURMANSK	URS	033E10 68N58	033E10 68N58	350	CP 304HF1B			ND			0000 2400	
1316				URS MURMANSK	URS	033E10 68N58	033E10 68N58	500	CP 304HF1B			ND			0000 2400	
1319				URS MURMANSK	URS	033E10 68N58	033E10 68N58	350	CO 304HF1B			ND			0000 2400	
1321				URS MURMANSK	URS	033E10 68N58	033E10 68N58	350	OT 304HF1B			ND			0000 2400	
1323				URS MURMANSK	URS	033E10 68N58	033E10 68N58	500	CO 304HF1B			ND			0000 2400	
1325				URS MURMANSK	URS	033E10 68N58	033E10 68N58	350	OT 304HF1B			ND			0000 2400	
1502				URS MURMANSK	URS	033E10 68N58	033E10 68N58	700	CO 2K35J3E			ND			0000 2400	
1345				URS NARIAN-MAR	URS	053E00 67N39	053E00 67N39	350	CO 304HF1B			ND			0000 2400	
1347				URS NARIAN-MAR	URS	053E00 67N39	053E00 67N39	350	CO 304HF1B			ND			0000 2400	
1483				URS NARIAN-MAR	URS	053E00 67N39	053E00 67N39	200	CO 304HF1B			ND			0000 2400	
1484				URS NARIAN-MAR	URS	053E00 67N39	053E00 67N39	200	CO 100HA1A			ND			0000 2400	
1485				URS NARIAN-MAR	URS	053E00 67N39	053E00 67N39	200	CO 100HA1A			ND			0000 2400	
1442				URS NARVA-IESSU	URS	028E12 59N22	028E12 59N22	200	CO 304HF1B			ND			0000 2400	
1444				URS NARVA-IESSU	URS	028E12 59N22	028E12 59N22	200	CO 304HF1B			ND			0000 2400	
1447				URS NARVA-IESSU	URS	028E12 59N22	028E12 59N22	700	CO 2K35J3E			ND			0000 2400	
1140				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	700	CO 2K35J3E			ND			0000 2400	
1142				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	OT 304HF1B			ND			0000 2400	
1143				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	OT 100HA1A			ND			0000 2400	
1144				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CO 304HF1B			ND			0000 2400	
1146				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CO 304HF1B			ND			0000 2400	
1148				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CP 304HF1B			ND			0000 2400	
1150				URS NOVOROSSIISK	URS	037E42 44N42	037E42 44N42	350	CP 304HF1B			ND			0000 2400	
1364				URS ONEGA	URS	038E10 63N57	038E10 63N57	200	CP 304HF1B			ND			0000 2400	
1366				URS ONEGA	URS	038E10 63N57	038E10 63N57	200	CO 304HF1B			ND			0000 2400	
1480				URS PERTOMINSK	URS	038E27 64N48	038E27 64N48	200	CO 304HF1B			ND			0000 2400	
1376				URS PETROZAVODSK	URS	034E19 61N48	034E19 61N48	200	OT 304HF1B			ND			0000 2400	
1525				URS PETROZAVODSK	URS	034E19 61N48	034E19 61N48	200	CO 304HF1B			ND			0000 2400	
1527				URS PETROZAVODSK	URS	034E19 61N48	034E19 61N48	350	OT 304HF1B			ND			0000 2400	
1529				URS PETROZAVODSK	URS	034E19 61N48	034E19 61N48	350	CO 304HF1B			ND			0000 2400	
1465				URS PIARNU	URS	024E33 58N23	024E33 58N23	200	CO 304HF1B			ND			0000 2400	
1467				URS PIARNU	URS	024E33 58N23	024E33 58N23	200	CO 304HF1B			ND			0000 2400	
1469				URS PIARNU	URS	024E33 58N23	024E33 58N23	700	CO 2K35J3E			ND			0000 2400	
1470				URS PIARNU	URS	024E33 58N23	024E33 58N23	700	CO 2K35J3E			ND			0000 2400	
1129				URS PICUNDA	URS	040E21 43N09	040E21 43N09	200	CP 304HF1B			ND			0000 2400	
1586				URS PICUNDA	URS	040E21 43N09	040E21 43N09	200	CO 304HF1B			ND			0000 2400	
1387				URS RIGA	URS	024E05 56N57	024E05 56N57	350	CO 304HF1B			ND			0000 2400	
1389				URS RIGA	URS	024E05 56N57	024E05 56N57	350	CO 304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1391				URS RIGA	URS	024E05 56N57	024E05 56N57	350	CP 304HF1B			ND			0000 2400	
1393				URS RIGA	URS	024E05 56N57	024E05 56N57	350	CP 304HF1B			ND			0000 2400	
1395				URS RIGA	URS	024E05 56N57	024E05 56N57	350	CP 304HF1B			ND			0000 2400	
1397				URS RIGA	URS	024E05 56N57	024E05 56N57	700	CO 2K35J3E			ND			0000 2400	
1398				URS RIGA	URS	024E05 56N57	024E05 56N57	700	CP 2K35J3E			ND			0000 2400	
1399				URS RIGA	URS	024E05 56N57	024E05 56N57	700	CO 304HF1B			ND			0000 2400	
1191				URS ROSTOV-NA-DONU	URS	039E40 47N16	039E40 47N16	200	CO 304HF1B			ND			0000 2400	
1193				URS ROSTOV-NA-DONU	URS	039E40 47N16	039E40 47N16	200	CO 304HF1B			ND			0000 2400	
1195				URS ROSTOV-NA-DONU	URS	039E40 47N16	039E40 47N16	700	CO 2K35J3E			ND			0000 2400	
1131				URS SOTCHI	URS	039E45 43N36	039E45 43N36	700	CO 2K35J3E			ND			0000 2400	
1132				URS SOTCHI	URS	039E45 43N36	039E45 43N36	200	CO 304HF1B			ND			0000 2400	
1134				URS SOTCHI	URS	039E45 43N36	039E45 43N36	200	CP 304HF1B			ND			0000 2400	
1135				URS SOTCHI	URS	039E45 43N36	039E45 43N36	200	CP 100HA1A			ND			0000 2400	
1123				URS SUKHUMI	URS	040E42 43N00	040E42 43N00	700	CO 2K35J3E			ND			0000 2400	
1124				URS SUKHUMI	URS	040E42 43N00	040E42 43N00	200	CO 304HF1B			ND			0000 2400	
1126				URS SUKHUMI	URS	040E42 43N00	040E42 43N00	200	CP 304HF1B			ND			0000 2400	
1419				URS SVETLVI	URS	020E06 54N40	020E06 54N40	700	CO 2K35J3E			ND			0000 2400	
1296				URS TAGANROG	URS	038E53 47N13	038E53 47N13	200	OT 304HF1B			ND			0000 2400	
1297				URS TAGANROG	URS	038E53 47N13	038E53 47N13	200	OT 100HA1A			ND			0000 2400	
1298				URS TAGANROG	URS	038E53 47N13	038E53 47N13	200	CO 304HF1B			ND			0000 2400	
1300				URS TAGANROG	URS	038E53 47N13	038E53 47N13	200	CO 304HF1B			ND			0000 2400	
1302				URS TAGANROG	URS	038E53 47N13	038E53 47N13	200	CP 304HF1B			ND			0000 2400	
1538				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	OT 304HF1B			ND			0000 2400	
1540				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CO 304HF1B			ND			0000 2400	
1542				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CO 304HF1B			ND			0000 2400	
1544				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CP 304HF1B			ND			0000 2400	
1546				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CP 304HF1B			ND			0000 2400	
1548				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CP 304HF1B			ND			0000 2400	
1549				URS TALLIN	URS	024E46 59N24	024E46 59N24	350	CP 100HA1A			ND			0000 2400	
1550				URS TALLIN	URS	024E46 59N24	024E46 59N24	700	CO 2K35J3E			ND			0000 2400	
1551				URS TALLIN	URS	024E46 59N24	024E46 59N24	700	CO 2K35J3E			ND			0000 2400	
1552				URS TALLIN	URS	024E46 59N24	024E46 59N24	700	CP 2K35J3E			ND			0000 2400	
1437				URS TARAN	URS	019E59 54N58	019E59 54N58	700	CO 2K35J3E			ND			0000 2400	
1438				URS TARAN	URS	019E59 54N58	019E59 54N58	200	CO 304HF1B			ND			0000 2400	
1439				URS TARAN	URS	019E59 54N58	019E59 54N58	200	CO 100HA1A			ND			0000 2400	
1440				URS TARAN	URS	019E59 54N58	019E59 54N58	350	CO 304HF1B			ND			0000 2400	
1280				URS TCHELEKEN	URS	053E24 39N24	053E24 39N24	200	CO 304HF1B			ND			0000 2400	
1282				URS TCHELEKEN	URS	053E24 39N24	053E24 39N24	200	CO 304HF1B			ND			0000 2400	
1096				URS TCHETCHEN	URS	047E39 44N00	047E39 44N00	200	CO 304HF1B			ND			0000 2400	
1490				URS TCHUPA	URS	033E00 66N16	033E00 66N16	200	CO 304HF1B			ND			0000 2400	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1492			URS	TCHUPA	URS	033E00 66N16 033E00 66N16	200	CO	304HF1B			ND			0000 2400	
1102			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	700	OT	2K35J3E			ND			0000 2400	
1165			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	700	OT	2K35J3E			ND			0000 2400	
1166			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	700	CO	2K35J3E			ND			0000 2400	
1167			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	700	CO	2K35J3E			ND			0000 2400	
1168			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	200	CO	100HA1A			ND			0000 2400	
1169			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	200	CO	304HF1B			ND			0000 2400	
1171			URS	TEMRIUK	URS	037E24 45N17 037E24 45N17	200	CO	304HF1B			ND			0000 2400	
1153			URS	TUAPSE	URS	039E05 44N01 039E05 44N01	200	CO	304HF1B			ND			0000 2400	
1372			URS	UMBA	URS	034E22 66N41 034E22 66N41	200	CP	304HF1B			ND			0000 2400	
1374			URS	UMBA	URS	034E22 66N41 034E22 66N41	200	CO	304HF1B			ND			0000 2400	
1375			URS	UMBA	URS	034E22 66N41 034E22 66N41	200	CO	100HA1A			ND			0000 2400	
1409			URS	VENTSPILS	URS	021E32 57N24 021E32 57N24	700	CO	304HF1B			ND			0000 2400	
1411			URS	VENTSPILS	URS	021E32 57N24 021E32 57N24	700	CP	2K35J3E			ND			0000 2400	
1412			URS	VENTSPILS	URS	021E32 57N24 021E32 57N24	700	CO	2K35J3E			ND			0000 2400	
1415			URS	VENTSPILS	URS	021E32 57N24 021E32 57N24	350	CP	304HF1B			ND			0000 2400	
1417			URS	VENTSPILS	URS	021E32 57N24 021E32 57N24	350	CO	304HF1B			ND			0000 2400	
1161			URS	VILKOVO	URS	029E36 45N25 029E36 45N25	200	CO	304HF1B			ND			0000 2400	
1163			URS	VILKOVO	URS	029E36 45N25 029E36 45N25	200	CO	304HF1B			ND			0000 2400	
1164			URS	VILKOVO	URS	029E36 45N25 029E36 45N25	200	CO	100HA1A			ND			0000 2400	
1557			URS	VYBORG	URS	028E46 60N42 028E46 60N42	200	CO	304HF1B			ND			0000 2400	
1559			URS	VYBORG	URS	028E46 60N42 028E46 60N42	200	CP	304HF1B			ND			0000 2400	

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

RÉGION 1

CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1

GENÈVE, FÉVRIER/MARS 1985

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COMMISSION 5
COMMITTEE 5
COMISION 5

SERVICE DE RADIONAVIGATION AERONAUTIQUE (RADIOPHARES)
DE LA REGION 1 DANS LES BANDES 415 - 435 kHz et 510 - 526,5 kHz

Liste des besoins non satisfaits

AERONAUTICAL RADIONAVIGATION SERVICE (RADIOBEACONS)
IN REGION 1 IN THE BANDS 415 - 435 kHz and 510 - 526.5 kHz

List of non-satisfied requirements

SERVICIO DE RADIONAVEGACION AERONÁUTICA (RADIOFAROS)
DE LA REGIÓN 1 EN LAS BANDAS 415 - 435 kHz y 510 - 526,5 kHz

Lista de necesidades non satisfechas

Annexe/Annex/Anexo: 1

Renseignements inclus dans les colonnes de la liste des besoins non satisfaits pour le service de radionavigation aéronautique (radiophares) de la Région 1 dans les bandes 415 - 435 kHz et 510 - 526,5 kHz

Colonne

0. Numéro de serie de l'IFRB

1. Fréquence assignée (kHz)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude de la station d'émission (degrés et minutes)

7. Longitude et latitude (degrés et minutes) du centre de la zone de service et rayon (km) de la zone de service circulaire

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance apparente rayonnée nécessaire sur une antenne verticale courte (p.a.r.v.) (dBW)

(valeur calculée sur la base du champ minimum à protéger et de la portée de service dans les conditions de propagation par onde de sol)

11. Caractéristiques de l'antenne (ND)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

Information included in the columns of the list of non-satisfied requirements for the aeronautical radionavigation service (radiobeacons) in Region 1 in the bands 415 - 435 kHz and 510 - 526.5 kHz

Column

0. IFRB serial number

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Longitude and latitude (degrees and minutes) of the centre of the service area and radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and necessary class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)

(value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Informaciones incluidas en las columnas de la lista de necesidades no satisfechas para el servicio de radionavegación aeronáutica (radiofaros) de la Región 1 en las bandas 415 - 435 kHz y 510 - 526,5 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6. Longitud y latitud de la estación transmisora (grados y minutos)

7. Zona de servicio: longitud y latitud (grados y minutos) del centro de la zona de servicio y radio (km) de la zona de servicio circular

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión necesaria

10. Potencia radiada aparente referida a una antena vertical corta p.r.a.v. (dBW)

(valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

11. Características de la antena (ND)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50718				AFS SOEKOR	AFS	E S	E S	40	RC 2K10A2A		ND	0000 2400	
50719				AFS SOEKOR	AFS	E S	E S	40	RC 2K10A2A		ND	0000 2400	
50717				AFS VEREENIGING	AFS	027E57 26S32	027E57 26S32	50	RC 2K10A2A		ND	0000 2400	
50705				AFS WELCOM	AFS	026E42 27S58	026E42 27S58	185	RC 2K10A2A		ND	0000 2400	
50929				ALG ALGER	ALG	003E18 36N40	003E18 36N40	100	RC 100HA1A		ND	0000 2400	
50505				ALG ANNABA	ALG	007E47 36N50	007E47 36N50	100	RC 100HA1A		ND	0000 2400	
50526				ALG BATNA	ALG	006E09 35N32	006E09 35N32	100	RC 100HA1A		ND	0000 2400	
50522				ALG BECHAR	ALG	002W14 31N38	002W14 31N38	300	RC 100HA1A		ND	0000 2400	
50534				ALG BEJAIA	ALG	005E02 36N43	005E02 36N43	100	RC 100HA1A		ND	0000 2400	
50513				ALG BISKRA	ALG	005E44 34N48	005E44 34N48	200	RC 100HA1A		ND	0000 2400	
50518				ALG BORDJ OMAR DOUSS	ALG	006E50 28N08	006E50 28N08	100	RC 100HA1A		ND	0000 2400	
50944				ALG BOUSAADA	ALG	004E12 35N20	004E12 35N20	100	RC 100HA1A		ND	0000 2400	
50956				ALG CONSTANTINE	ALG	006E47 36N11	006E47 36N11	100	RC 100HA1A		ND	0000 2400	
50946				ALG EL BAYADH	ALG	001E01 33N41	001E01 33N41	100	RC 100HA1A		ND	0000 2400	
50520				ALG EL OUED	ALG	006E47 33N30	006E47 33N30	100	RC 100HA1A		ND	0000 2400	
50941				ALG EL OUED	ALG	006E47 33N30	006E47 33N30	100	RC 100HA1A		ND	0000 2400	
50516				ALG HASSI EL KHEBI	ALG	005W16 29N11	005W16 29N11	200	RC 100HA1A		ND	0000 2400	
51018				ALG IN AMENAS	ALG	009E37 28N03	009E37 28N03	100	RC 100HA1A		ND	0000 2400	
51011				ALG IN SALAH	ALG	002E31 27N15	002E31 27N15	100	RC 100HA1A		ND	0000 2400	
50511				ALG JIJEL	ALG	005E52 36N48	005E52 36N48	100	RC 100HA1A		ND	0000 2400	
50979				ALG JIJEL	ALG	005E52 36N48	005E52 36N48	100	RC 100HA1A		ND	0000 2400	
50517				ALG MASCARA	ALG	000E11 35N13	000E11 35N13	100	RC 100HA1A		ND	0000 2400	
50508				ALG ORAN ES SENIA	ALG	000W38 35N39	000W38 35N39	300	RC 100HA1A		ND	0000 2400	
51031				ALG ORAN ES SENIA	ALG	000W38 35N39	000W38 35N39	100	RC 100HA1A		ND	0000 2400	
50504				ALG OUARGLA	ALG	005E25 31N56	005E25 31N56	100	RC 100HA1A		ND	0000 2400	
50948				ALG SETIF	ALG	005E25 36N36	005E25 36N36	100	RC 100HA1A		ND	0000 2400	
50531				ALG TEBESSA	ALG	008E03 35N27	008E03 35N27	100	RC 100HA1A		ND	0000 2400	
50510				ALG TIARET	ALG	001E28 35N21	001E28 35N21	100	RC 100HA1A		ND	0000 2400	
50536				ALG TIMIMOUN	ALG	000E17 29N14	000E17 29N14	100	RC 100HA1A		ND	0000 2400	
50515				ALG TOUGGOURT	ALG	006E05 33N03	006E05 33N03	100	RC 100HA1A		ND	0000 2400	
51094				BDI RUYIGI	BDI	030E15 03S29	030E15 03S29	100	RC 100HA1A		ND	0000 2400	
50472				BEL SINT TRUIDEN	BEL	005E11 50N46	005E11 50N46	90	RC 100HA1A		ND	0000 2400	
51053				BEN COTONOU AEROPORT	BEN	002E25 06N23	002E25 06N23	50	RC 2K00A2A		ND	0000 2400	
51054				BEN DJOUGOU AEROPORT	BEN	001E40 09N42	001E40 09N42	400	RC 2K00A2A		ND	0000 2400	
51052				BEN SAVE AEROPORT	BEN	002E31 07N47	002E31 07N47	100	RC 100HA1A		ND	0000 2400	
50981				CME BAFOUSSAM	CME	010E25 05N27	010E25 05N27	200	RC 2K10A2A		ND	0000 2400	
50983				CME BAMENDA	CME	010E07 06N02	010E07 06N02	150	RC 100HA1A		ND	0000 2400	
50957				CME DSCHANG	CME	010E04 05N27	010E04 05N27	50	RC 100HA1A		ND	0000 2400	
50988				CME GAROUA	CME	013E25 09N20	013E25 09N20	180	RC 2K10A2A		ND	0000 2400	
50978				CME KOUTABA	CME	010E45 05N39	010E45 05N39	180	RC 2K10A2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50970		CME		KRIBI	CME	009E43 02N53	009E43 02N53	180	RC 2K10A2A		ND	0000 2400	
51033		CME		MAMFE	CME	009E20 05N43	009E20 05N43	180	RC 100HA1A		ND	0000 2400	
51019		CME		NKONGSAMBA	CME	009E57 04N57	009E57 04N57	50	RC 100HA1A		ND	0000 2400	
51020		CME		NWA	CME	011E05 06N27	011E05 06N27	100	RC 100HA1A		ND	0000 2400	
51030		CME		YOKO	CME	012E20 05N31	012E20 05N31	180	RC 100HA1A		ND	0000 2400	
50785		CTI		KORHOGO	CTI	005W38 09N27	005W38 09N27	200	RC 2K10A2A		ND	0000 2400	
50786		CTI		KORHOGO	CTI	005W38 09N27	005W38 09N27	200	RC 2K10A2A		ND	0000 2400	
50791		CTI		SASSANDRA	CTI	006W05 04N57	006W05 04N57	200	RC 2K10A2A		ND	0000 2400	
50857		D		ALFELD	D	011E32 49N25	011E32 49N25	47	RC 2K00A2A		ND	0000 2400	
50454		D		COLEMAN	D	008E32 49N36	008E24 49N32	47	RC 2K00A2A		ND	0000 2400	
50458		D		WEILER	D	009E57 49N01	009E57 49N01	56	RC 2K00A2A		ND	0000 2400	
50020		DDR		HENNI CKENDORF	DDR	013E06 52N10	013E06 52N10	50	RC 2K10A2A		ND	0000 2400	
50652		DDR		JAKOBSHAGEN	DDR	013E34 53N10	013E34 53N10	30	RC 2K10A2A		ND	0000 2400	
50644		DDR		LEIPZIG-MOCKAU	DDR	012E17 51N26	012E17 51N26	20	RC 2K10A2A		ND	0000 2400	
50659		DDR		NEUHAUSEN	DDR	013E28 50N41	013E28 50N41	78	RC 2K10A2A		ND	0000 2400	
50646		DDR		RIESA	DDR	013E17 51N18	013E17 51N18	58	RC 2K10A2A		ND	0000 2400	
50653		DDR		ZEHLENDORF	DDR	013E03 51N52	013E03 51N52	40	RC 2K10A2A		ND	0000 2400	
50234		E		TENERIFE	CNR	016W22 28N29	016W22 28N29	46	RC 2K10A2A		ND	0000 2400	
50245		E		NAVAS DEL REY	E	004W15 40N22	004W15 40N22	56	RC 2K10A2A		ND	0000 2400	
50378		F		BITCHE	F	007E30 49N02	007E30 49N02	92	RC 100HA1A		ND	0000 2400	
50370		F		DAMBLAIN	F	005E39 48N05	005E39 48N05	92	RC 100HA1A		ND	0000 2400	
50333		F		FREJUS	F	006E44 43N25	006E44 43N25	93	RC 100HA1AAN		ND	0000 2400	
50762		F		LAON COUVRON	F	003E33 49N38	003E33 49N38	46	RC 100HA1AAN		ND	0000 2400	
50373		F		LURE	F	006E32 47N42	006E32 47N42	96	RC 100HA1A		ND	0000 2400	
50347		F		MIRECOURT	F	006E04 48N19	006E04 48N19	74	RC 100HA1AAN		ND	0000 2400	
50367		F		MOURMELON	F	004E23 49N07	004E23 49N07	46	RC 100HA1A		ND	0000 2400	
50377		F		S SYMPHORIEN	F	004E56 45N39	004E56 45N39	46	RC 100HA1A		ND	0000 2400	
50372		F		SISSONNE	F	003E58 49N39	003E58 49N39	46	RC 100HA1A		ND	0000 2400	
50376		F		TOUL ROSIERES	F	005E53 48N41	005E53 48N41	139	RC 100HA1A		ND	0000 2400	
50068		FNL		KITTILA	FNL	024E54 67N37	024E54 67N37	90	RC 100HA1A		ND	0000 2400	
50075		FNL		TAMPERE-PIRKKALA	FNL	023E27 61N23	023E27 61N23	90	RC 100HA1A		ND	0000 2400	
50076		FNL		TAMPERE-PIRKKALA	FNL	023E40 61N26	023E40 61N26	50	RC 800HA2A		ND	0000 2400	
50078		FNL		TAMPERE-PIRKKALA	FNL	023E33 61N24	023E33 61N24	50	RC 800HA2A		ND	0000 2400	
50835		G		BOVINGDON	G	000W33 51N44	000W33 51N44	56	RC 850HA2A		ND	0000 2400	
50827		G		PLAT PHILLIPS 48/29A	G	001E48 53N01	001E48 53N01	37	RC 850HA2A		ND	0000 2400	
50828		G		PLAT PHILLIPS 48/29C	G	001E46 53N06	001E46 53N06	37	RC 850HA2A		ND	0000 2400	
50822		G		PLATFORM DP6	G	003W31 53N52	003W31 53N52	37	RC 850HA2A		ND	0000 2400	
50821		G		PLATFORM DP8	G	003W33 53N45	003W33 53N45	37	RC 850HA2A		ND	0000 2400	
50832		G		PLATFORM SHELL AD	G	002E08 53N05	002E08 53N05	37	RC 850HA2A		ND	0000 2400	
50831		G		PLATFORM SHELL BD	G	002E11 53N05	002E11 53N05	37	RC 850HA2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50830		G		PLATFORM SHELL CD	G	002E10 53N06	002E10 53N06	37	RC 850HA2A		ND	0000 2400	
50624		GAB		LIBREVILLE	GAB	009E26 00N24	009E26 00N24	500	RC 100HA1A		ND	0000 2400	
51072		GHA		TAMALE	GHA	000W53 09N26	000W53 09N26	25	RC 2K10A2A		ND	0000 2400	
50674		GUI		KAMSAR	GUI	015W36 11N40	015W36 11N40				ND	0000 2400	
50675		GUI		KONAKRY	GUI	013W37 09N30	013W37 09N30				ND	0000 2400	
50676		GUI		KONAKRY	GUI	013W37 09N30	013W37 09N30				ND	0000 2400	
50677		GUI		KONAKRY	GUI	013W37 09N30	013W37 09N30				ND	0000 2400	
50016		HNG		BUDAORS	HNG	018E59 47N27	018E59 47N27	100	RC 2K10A2AAN		ND	0000 2400	
50913		HNG		IHAROS	HNG	017E06 46N20	017E06 46N20	100	RC 2K10A2AAN		ND	0000 2400	
50013		HNG		NAGYKANIZSA	HNG	016E58 46N26	016E58 46N26	50	RC 900HA2AAN		ND	0500 1900	
50920		HNG		SAGVAR	HNG	018E07 46N50	018E07 46N50	50	RC 2K10A2AAN		ND	0000 2400	
50014		HNG		SZOLNOK	HNG	020E11 47N08	020E11 47N08	100	RC 900HA2AAN		ND	0000 2400	
50012		HNG		ZALAEGERSZEG	HNG	016E52 46N52	016E52 46N52	50	RC 900HA2AAN		ND	0500 1900	
50471		IRL		MOB 2	IRL	011W00 53N00	011W00 53N00	90	RC 2K14A2AAN		ND	0000 2400	
51090		LBY		AL ZAWARA	LBY	012E10 31N10	013E10 12N10	300	RC 2K00A2A		ND	0000 2400	
51084		LBY		EL ZAWIA	LBY	012E38 32N46	012E32 32N46	100	RC		ND	0000 2400	
50671		LBY		HAMADA	LBY	012E50 29N32	012E50 29N32	370	RC 2K04A2AAN		ND	0000 2400	
51092		LBY		SABHA A2A	LBY	018E07 28N13	018E07 28N13	300	RC 2K00A2A		ND	0000 2400	
50538		MAU		PLAISANCE	MAU	057E41 20S26	057E41 20S26	750	RC 1K02A2A		ND	0000 2400	
50282		MRC		CASABLANCA ANFA	MRC	007W41 33N31	007W41 33N31	100	RC 2K10A2A		ND	0000 2400	
50283		MRC		CASABLANCA NOUASSER	MRC	007W33 32N17	007W33 32N17	100	RC 2K10A2A		ND	0000 2400	
50850		MRC		EL JADIDA	MRC	008W40 33N07	008W40 33N07	150	RC 100HA1A		ND	0000 2400	
50848		MRC		NADOR	MRC	002W56 35N10	002W56 35N10	200	RC 100HA1A		ND	0000 2400	
50844		MRC		OUARZAZATE	MRC	007W00 30N50	007W00 30N50	150	RC 2K04A2A		ND	0000 2400	
51037		OMA		SALALAH	OMA	054E06 17N01	054E06 17N01	400	CR 304HF1BCN		ND	0000 2400	
50581		POL		MANIECZKI	POL	016E56 52N07	016E56 52N07	120	RC 800HA2AAN		ND	0000 2400	
50583		POL		NOWY SACZ	POL	020E38 49N45	020E38 49N45	75	RC 2K00A2AAN		ND	0000 2400	
50592		POL		STRZELIN	POL	016E55 51N18	016E55 51N18	75	RC 800HA2AAN		ND	0000 2400	
50596		POL		ZAMOSC	POL	023E12 50N42	023E12 50N42	75	RC 2K00A2AAN		ND	0000 2400	
50322		POR		CORVO	AZR	031W07 39N40	031W07 39N40	50	RC 2K04A2AAN		ND	0000 2400	
50267		POR		SANTA CRUZ	POR	009W22 39N07	009W22 39N07	50	RC 2K04A2AAN		ND	0000 2400	
50626		QAT		DOHA	QAT	051E34 25N16	051E34 25N16	800	RC 2K10A2A		ND	0000 2400	
50627		QAT		DOHA	QAT	051E34 25N16	051E34 25N16	800	RC 2K10A2A		ND	0000 2400	
50899		QAT		DOHA	QAT	051E34 25N16	051E34 25N16	800	RC 2K80A2A		ND	0000 2400	
50900		QAT		DOHA	QAT	051E34 25N16	051E34 25N16	800	RC 2K80A2A		ND	0000 2400	
51036		ROU		ARAD	ROU	021E12 46N11	021E12 46N11	93	RC 2K14A2A		ND	0000 2400	
50725		ROU		BACAU	ROU	026E55 46N29	026E55 46N29	93	RC 2K14A2A		ND	0000 2400	
50732		ROU		BUCURESTI/BANEASA	ROU	026E09 44N31	026E09 44N31	28	RC 2K14A2A		ND	0000 2400	
50734		ROU		CLUJ-NAPOCA	ROU	023E37 46N47	023E37 46N47	148	RC 2K14A2A		ND	0000 2400	
50736		ROU		CLUJ-NAPOCA	ROU	023E41 46N47	023E41 46N47	148	RC 2K14A2A		ND	0000 2400	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50740				ROU CONSTANTA	ROU	028E29 44N23	028E29 44N23	148	RC 2K14A2A		ND	0000 2400	
50754				ROU TIMISOARA	ROU	021E14 45N50	021E14 45N50	93	RC 2K14A2A		ND	0000 2400	
50757				ROU TULCEA	ROU	028E42 45N07	028E42 45N07	93	RC 2K14A2A		ND	0000 2400	
50758				ROU TULCEA	ROU	028E44 44N59	028E44 44N59	96	RC 2K14A2A		ND	0000 2400	
50207				TCH BRNO-MEDLANKY	TCH	016E35 49N13	016E35 49N13	90	RC 2K40A2A		ND	0000 2400	
50210				TCH DESNA	TCH	015E33 48N58	015E33 48N58	90	RC 2K40A2A		ND	0000 2400	
50211				TCH FRYDLANT	TCH	015E02 50N54	015E02 50N54	90	RC 2K40A2A		ND	0000 2400	
50218				TCH MLADA BOLESLAV	TCH	014E59 50N21	014E59 50N21	90	RC 2K40A2A		ND	0000 2400	
50886				TCH PRAHA/NORTH	TCH	014E17 50N06	014E17 50N06	45	RC 2K10A2A		ND	0000 2400	
50220				TCH PROSTEJOV	TCH	017E06 49N30	017E06 49N30	150	RC 2K40A2A		ND	0000 2400	
50896				TCH VODOCHODY	TCH	014E29 50N12	014E29 50N12	90	RC 2K10A2A		ND	0000 2400	
50928				TGO NIAMTOUGOU	TGO	001E03 09N42	001E03 09N42	90	RC 2K04A2AAN		ND	0000 2400	
50634				TUN CAP BLANC	TUN	009E50 37N20	009E50 37N20	60	RC 100HA2A		ND	0000 2400	
50628				TUN CAP BON PHARE	TUN	011E03 37N04	011E03 37N04	100	RC 100HA1A		ND	0000 2400	
51096				TUN DJEDEIDA	TUN	009E56 36N50	009E56 36N50	100	RC 100HA2A		ND	0000 2400	
50629				TUN EL ATTAYA PHARE	TUN	011E18 34N44	011E18 34N44	60	RC 100HA2A		ND	0000 2400	
50635				TUN EL BORMA	TUN	009E14 31N42	009E14 31N42	185	RC 100HA2A		ND	0000 2400	
50641				TUN GAFSA	TUN	008E48 34N25	008E48 34N25	60	RC 100HA2A		ND	0000 2400	
50636				TUN KHARROUBA	TUN	009E49 37N17	009E49 37N17	45	RC 100HA2A		ND	0000 2400	
50637				TUN M'SAKEN	TUN	010E37 35N43	010E37 35N43	45	RC 100HA2A		ND	0000 2400	
50640				TUN SFAX VILLE	TUN	010E48 34N46	010E48 34N46	90	RC 100HA2A		ND	0000 2400	
50201				URS SEMENOVKA	UKR	032E33 52N12	032E33 52N12	150	RC 2K10A2AAN		ND	0000 2400	
50203				URS TCHERNIAKHOV	UKR	028E42 50N27	028E42 50N27	150	RC 2K10A2AAN		ND	0000 2400	
50163				URS ARMAVIR	URS	040E49 45N00	040E49 45N00	150	RC 2K10A2AAN		ND	0000 2400	
50160				URS KURSK	URS	036E12 51N46	036E12 51N46	150	RC 2K10A2AAN		ND	0000 2400	
50803				YUG PRISTINA	YUG	021E02 42N36	021E02 42N36	25	RC 2K10A2A		ND	0000 2400	
50720				ZAI KILIBA	ZAI				RC A2A		ND	0500 1600	

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 123-E
11 March 1985
Original: English

COMMITTEE 6

Report of the Ad Hoc Group of Committee 6

As instructed by Committee 6 at its meeting of 9 March 1985, the Ad Hoc Group has prepared the attached draft Resolution which is submitted to Committee 6 for consideration.

M. MENCHEN
Chairman of the Ad Hoc Group

Annex: 1

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ANNEX

DRAFT RESOLUTION COM6/4 (MM)

relating to compatibility between assignments appearing in the Plan for the maritime mobile service in the bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2045 - 2160 kHz and assignments in the fixed and land mobile services recorded in the Master Register *)

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that Article 8 of the Radio Regulations allocated in Region 1 the frequency bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2045 - 2160 kHz to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis (primary in countries listed in RR483);

b) that the Conference established a Plan for the maritime mobile service in the bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2045 - 2160 kHz;

c) that the Conference was unable to evaluate the incompatibilities between frequency assignments to the maritime mobile service entered in the Plan and those of the primary services recorded in the Master Register;

d) that the Conference was unable to assign alternative frequencies to the assignments to stations of permitted services after having selected the frequencies for the maritime mobile service as indicated in the provisions of RR419;

e) that in accordance with RR419, the primary and permitted services have equal rights except during the period of preparation of a Plan for the primary service;

f) that the evaluation of compatibility between assignments to the maritime mobile service in the Plan and the other services can be made only after the Conference;

g) that this evaluation may indicate the probability of harmful presently between assignments appearing in the Plan and other assignments presently recorded in the Master Register for the fixed and land mobile services;

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*) This draft Resolution was prepared on the understanding that all assignments to coast stations in the planned bands which are presently in use have a corresponding assignment in the Plan.

h) that in such cases alternative frequencies should be found to the interfering or interfered assignments;

i) that the planned bands are already congested and that alternative frequencies will have to be found generally in other bands;

resolves

1. that, within 90 days of the end of the present Conference, the IFRB shall send to each Administration the list of assignments to its stations of the fixed and land mobile services recorded in the Master Register in the band concerned, requesting them to review these assignments with a view to cancelling those assignments which are no longer in use;

2. that administrations shall, within a period of 90 days following the receipt of the list referred to above, return the copy of the list indicating those assignments to be deleted from the Master Register as well as any modification to other assignments, which may assist in resolving any apparent incompatibility with the Plan;

3. that, having received information requested under Resolution COM6/2 indicating the relation between assignments in the maritime mobile service recorded in the Master Register and those appearing in the Plan as well as the information resulting from the application of paragraphs 1 and 2 above, the IFRB shall carry out compatibility analyses between the assignments appearing in the Plan and those of the fixed and land mobile services which are recorded in the Master Register in the same band, using the IFRB Technical Standards on the basis of ground-wave propagation;

4. that the IFRB shall send to each administration concerned the list of incompatibilities that may exist between the assignments in the Plan and the assignments in the fixed and land mobile services;

5. that, when an administration finds that the level of interference caused to its fixed or land mobile station for which an assignment appears in the Plan is acceptable to it, it shall so inform the IFRB and the corresponding assignment is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

6. that, when an administration finds that the level of interference caused to its maritime mobile station for which an assignment appears in the Plan is acceptable to it, it shall so inform the IFRB and the fixed or land mobile assignment at the origin of interference is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

7. that, when an assignment to a fixed or land mobile service with a date in Column 2b is identified as capable of causing harmful interference to an assignment appearing in the Plan, the administration shall take appropriate measures to change the frequency or modify the characteristics in order to eliminate the probability of harmful interference;

8. that, an administration having an assignment in the fixed or land mobile service with a 2a date, which is incompatible with an assignment in the Plan, should modify the characteristics of its assignment in order to eliminate the incompatibility and, if this is not possible, select an alternative frequency either in the planned bands or preferably in other bands;

9. that 120 days before the date of entry into force of the Agreement, the IFRB shall request those administrations concerned with an unresolved incompatibility to find a solution to the problem. If 90 days before the entry into force of the Agreement, the Board is not informed of the resolution of such incompatibility, it shall select an alternative frequency to the assignment having the most recent 2a date and inform the administration concerned;

10. that an administration, for which an alternative frequency was selected in accordance with paragraph 9 above, shall modify the characteristics of its assignment in order to operate at this new frequency as soon as possible and, in any case, before the bringing into use of the assignment in the Plan with which it is incompatible;

11. that administrations may request the assistance of the Board at any stage of these proceedings;

12. that when an alternative frequency is selected and is compatible with the Plan and receives a favourable finding with respect to assignments recorded in the Master Register, the assignment will keep its original 2a date when recorded in the Master Register;

urges administrations

1. to take all necessary measures to eliminate incompatibility with the Plan by modifying the characteristics of their assignments to the fixed and land mobile services or by selecting frequencies in other bands;

2. to cooperate to the maximum extent possible with a view to achieving the objectives of this Resolution.

invites the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Addendum 1 to
Document 124-E
13 March 1985
Original: English

Add the following notes to page B.3/6:

1. Against channels 1 and 19

"These channels are limited to emissions with a bandwidth of less than 2 kHz."

2. Against channels 26, 27 and 34

"These channels are limited to emissions with a bandwidth of less than 1 kHz."

3. Against channel 21

"This channel is limited to emissions with a bandwidth of less than 2 kHz until the date decided by a future radio conference (see Resolution No. 206, MOB-83) and /Re /."

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 124-E
11 March 1985

B.3 (MM) PLENARY MEETING

THIRD SERIES OF TEXTS SUBMITTED BY THE

EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
COM.5	111	Annex 1 Annex 2 Annex to Recommendation No. COM 6/A (MM) Annex to Recommendation No. COM 6/B (MM) Annex to Recommendation No. COM 6/C (MM) Annex to Recommendation No. COM 6/. (MM)

J.-L. BLANC
Chairman
of the Editorial Committee

Annex: 6 pages

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ANNEX 1

Frequency Assignment Plan (Region 1) for stations of the Maritime Mobile Service in the Bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Plan column headings

Column

1. Assigned frequency (kHz)/[(carrier frequency (kHz) for J3E)]
2. Channel number
3. Country symbol
4. Transmitting coast station name
5. Symbol of the country or geographical area in which the station is located (see Table 1 in the Preface to the International Frequency List)
6. Longitude and latitude (in degrees and minutes) of the transmitting station
7. Service area:

   7a) Longitude and latitude (in degrees and minutes) of the centre of the service area and radius (km) of the circular service area;
   or

   7b) Longitude and latitude (in degrees and minutes) of a maximum of six points limiting the service area
8. Nature of service
9. Necessary bandwidth and class of emission
10. Necessary transmitting power:

    10a: effective monopole radiated power (e.m.r.p.) (dBW)

    (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

    10b: power supplied to the antenna transmission line (dBW)

    (calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
    e.m.r.p. + 4 dB (for the 2 MHz band)
11. Antenna characteristics

    11a: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

    11b: maximum antenna gain (dB)

    11c: angular width of the main lobe (degrees)
12. Normal hours of operation (UTC) of frequency assignment
13. Remarks

ANNEX 2

Frequency Assignment Plan (Region 1) for stations of the Aeronautical Radionavigation Service (radiobeacons) in the Bands 415 - 435 kHz and 510 - 526.5 kHz

Plan column headings

Column

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of the country or geographical area in which the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (in degrees and minutes) of the transmitting station

7. Longitude and latitude (in degrees and minutes) of the centre of the service area and radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)[1]

    (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

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[1] The type of power to be notified under Article 12 of the Radio Regulations shall be the carrier power determined by the NON emission of the radiobeacon.

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ANNEX TO RECOMMENDATION No. COM 6/A (MM)

Channelling arrangement of the frequency bands between 415 - 526.5 kHz for the maritime mobile service

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship Station (kHz)
1	435.5	475.5	41	516.5	467	60	415.5	
2	436	476	42	517	467.5	61	416.0	
3	436.5	476.5	43	519	460.5	62	416.5	
4	437	477	44	519.5	468.5	63	417.0	
5	437.5	477.5	45	520	469	64	417.5	
6	438	478	46	520.5	469.5	65	418.0	
7	438.5	478.5	47	521	470	66	418.5	
8	439	479	48	521.5	470.5	67	419.0	
9	439.5	479.5	49	522	471	68	419.5	
10	440	461	50	522.5	471.5	69	420.0	
11	440.5	480.5	51	523	472	70	420.5	454.0
12	441	481	52	523.5	472.5	71	421.0	
13	441.5	481.5	53	524	473	72	421.5	
14	442	482	54	524.5	473.5	73	422.0	468.0
15	442.5	482.5	55	525	474	74	422.5	
16	443	483	56	525.5	474.5	75	423.0	480.0
17	443.5	483.5	57	526	475	76	423.5	
18	444	484				77	424.0	458.0
19	444.5	484.5				78	424.5	
20	445	485				79	425.0	
21	445.5	485.5	101	450	450	80	425.5	
22	446	486	102	450.5	450.5	81	426.0	
23	446.5	486.5	103	451	451	82	426.5	
24	447	487	104	451.5	451.5	83	427.0	
25	447.5	487.5	105	452	452	84	427.5	
26	448	488	106	452.5	452.5	85	428.0	
27	448.5	488.5	107	453	453	86	428.5	
28	449	489	108		453.5**	87	429.0	
29	449.5	489.5	109		454.5**	88	429.5	
30	510.5	461.5	110		455.0**	89	430.0	
31	511	462	111	455.5*	458.5*	90	430.5	
32	511.5	462.5	112	456.0*	459.0*	91	431.0	
33	512.5	463	113	456.5*	459.5*	92	431.5	
34	513	463.5	114	457.0*	460.0*	93	432.0	
35	513.5	464	115		457.5**	94	432.5	
36	514	464.5				95	433.0	
37	514.5	465				96	433.5	
38	515	465.5				97	434.0	
39	515.5	466				98	434.5	
40	516	466.5						

* For DSC use. Channel No. 111 for international use, channels Nos. 112-114 for national use. (See also Resolution No. COM 5/1.)

** For inter-ship use

ANNEX TO RECOMMENDATION No. COM 6/B (MM)

Channelling arrangement of the frequency bands 1 606.5 - 1 625 kHz and [2 141.5] - 2 160 kHz used for narrow-band direct-printing telegraphy by the maritime mobile service

Channel No.	Coast station (kHz)	Ship station (kHz)
201	1607	2142
202	1607.5	2142.5
203	1608	2143
204	1608.5	2143.5
205	1609	2144
206	1609.5	2144.5
207	1610	2145
208	1610.5	2145.5
209	1611	2146
210	1611.5	2146.5
211	1612	2147
212	1612.5	2147.5
213	1613	2148
214	1613.5	2148.5
215	1614	2149
216	1614.5	2149.5
217	1615	2150
218	1615.5	2150.5
219	1616	2151
220	1616.5	2151.5
221	1617	2152
222	1617.5	2152.5
223	1618	2153
224	1618.5	2153.5
225	1619	2154
226	1619.5	2154.5
227	1620	2155
228	1620.5	2155.5

Channel No.	Coast station (DSC)* (kHz)	Ship station (DSC)* (kHz)
229	1621	2156
230	1621.5	2156.5
231	1622	2157
232	1622.5	2157.5
233	1623	2158
234	1623.5	2158.5
235	1624	2159
236	1624.5	2159.5

* See Resolution No. COM 5/1

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ANNEX TO RECOMMENDATION No. COM 6/C (MM)

Channelling arrangement of frequency bands 1 635 - 1 800 kHz and 2 045 - [2 141.5] kHz used for single sideband radiotelephony by the maritime mobile service

Channel No.	Coast station assigned fr. (carrier fr.) (kHz)	Ship station assigned fr. (carrier fr.) (kHz)
241	1636.4(1635)	2061.4(2060)
242	1639.4(1638)	2064.4(2063)
243	1642.4(1641)	2067.4(2066)
244	1645.4(1644)	2070.4(2069)
245	1648.4(1647)	2073.4(2072)
246	1651.4(1650)	2076.4(2075)
247	1654.4(1653)	2079.4(2078)
248	1657.4(1656)	2082.4(2081)
249	1660.4(1659)	2085.4(2084)
250	1663.4(1662)	2088.4(2087)
251	1666.4(1665)	2091.4(2090)
252	1669.4(1668)	2094.4(2093)
253	1672.4(1671)	2097.4(2096)
254	1675.4(1674)	2100.4(2099)
255	1678.4(1677)	2103.4(2102)
256	1681.4(1680)	2106.4(2105)
257	1684.4(1683)	2109.4(2108)
258	1687.4(1686)	2112.4(2111)
259	1690.4(1689)	2115.4(2114)
260	1693.4(1692)	2118.4(2117)
261	1696.4(1695)	2121.4(2120)
262	1699.4(1698)	2124.4(2123)
263	1702.4(1701)	2127.4(2126)
264	1705.4(1704)	2130.4(2129)
265	1708.4(1707)	2133.4(2132)
266	1711.4(1710)	2136.4(2135)
267	1714.4(1713)	2139.4(2138)
268	1717.4(1716)	2061.4(2060)
269	1720.4(1719)	2064.4(2063)
270	1723.4(1722)	2067.4(2066)

Channel No.	Coast station assigned fr. (carrier fr.) (kHz)	Ship station assigned fr. (kHz)
271	1726.4(1725)	2070.4(2069)
272	1729.4(1728)	2073.4(2072)
273	1732.4(1731)	2076.4(2075)
274	1735.4(1734)	2079.4(2078)
275	1738.4(1737)	2082.4(2081)
276	1741.4(1740)	2085.4(2084)
277	1744.4(1743)	2088.4(2087)
278	1747.4(1746)	2091.4(2090)
279	1750.4(1749)	2094.4(2093)
280	1753.4(1752)	2097.4(2096)
281	1756.4(1755)	2100.4(2099)
282	1759.4(1758)	2103.4(2102)
283	1762.4(1761)	2106.4(2105)
284	1765.4(1764)	2109.4(2108)
285	1768.4(1767)	2112.4(2111)
286	1771.4(1770)	2115.4(2114)
287	1774.4(1773)	2118.4(2117)
288	1777.4(1776)	2121.4(2120)
289	1780.4(1779)	2124.4(2123)
290	1783.4(1782)	2127.4(2126)
291	1786.4(1785)	2130.4(2129)
292	1789.4(1788)	2133.4(2132)
293	1792.4(1791)	2136.4(2135)
294	1795.4(1794)	2139.4(2138)
295	1798.4(1797)	2061.4(2060)

ANNEX TO [RECOMMENDATION No. COM 6/ (MM)]

Channelling arrangement of the frequency bands 415 - 435 kHz and 510 - 526.5 kHz for the aeronautical radionavigation service (radiobeacons)*

Channel No.	Frequency (kHz)
1	416
2	417
3	418
4	419
5	420
6	421
7	422
8	423
9	424
10	425
11	426
12	427
13	428
14	429
15	430
16	431
17	432
18	433
19	434

Channel No.	Frequency (kHz)
21	511
22	513
23	514
24	515
25	516
26	517
27	519
28	520
29	521
30	522
31	523
32	524
33	525

* Interleaved channels spaced at 0.5 kHz may also be used provided that this use does not cause harmful interference to assignments recorded in the Plan in which are integer multiples of 1 kHz. However, the interleaved use of 517.5 and 518.5 kHz is not permitted.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 1 to
Document 125-E
14 March 1985
Original: English

SUMMARY RECORD

OF THE

FOURTH MEETING OF COMMITTEE 6

(AGREEMENT AND PROCEDURES)

Thursday, 7 March 1985, at 0910 hrs and at 1400 hrs

Chairman: Mr. S. CHALLO (Kenya)

Replace section 2.2 by the following text:

"2.2 The delegate of the Netherlands expressed a strong preference for an early date. One of the reasons for it is the becoming available of the bands mentioned in Resolution No. 38 for the services to which those bands are allocated at the WARC-79. The financial and technical implications are not considered to be of a prohibitive nature for an early implementation date since, regardless of the date (early or late), there are always financial and technical implications.".

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 125-E
12 March 1985
Original: English

COMMITTEE 6

SUMMARY RECORD

OF THE

FOURTH MEETING OF COMMITTEE 6

(AGREEMENT AND PROCEDURES)

Thursday, 7 March 1985, at 0910 hrs and at 1400 hrs

Chairman: Mr. S. CHALLO (Kenya)

Subjects discussed:		Documents
1.	Report of Working Group 6B	76
2.	Date of entry into force of the Agreement	5, 8, 9, 17, 32, 43
3.	Report of the ad hoc Group of Committee 6 to Committee 6	82
4.	Note by the Chairman of Committee 3	58(Rev.1)
5.	Proposal from the French Administration with regard to off-keying signals	72
6.	Note by the Chairman of Committee 5 and proposal by France	72, 83

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1. Report of Working Group 6B (Document 76)

1.1 The Chairman of Working Group 6B introduced the Working Group's report in Document 76. The only point which had caused some uncertainty in the Working Group concerned the abrogation of the Copenhagen Plan, 1948. It had been his understanding that the Copenhagen Plan would be automatically abrogated by the entry into force of the Agreement replacing it and hence there was no need for an explicit article in the Agreement to that effect. However, the Working Group had considered that there should be some reference to the fact that the plans attached to the Agreement were intended to replace the Plan of the Copenhagen Plan. Article 13 had therefore been introduced in the draft. The date in Article 14 was left blank for future consideration by the Committee.

In Annex 2 of Document 76 the three draft Recommendations were identical except for the frequency bands to which they referred. It had been assumed that channelling plans would be annexed to the Recommendations but if it was decided to annex them to the Agreement itself, the text could be cross-referenced.

Annex 1: Draft Agreement

1.2 It was agreed to align the title in English with the French text and to correct a typographical error in the Spanish text of Article 2(f).

1.3 In reply to a question by the delegate of the Netherlands, in connection with Article 2, paragraphs (e) and (f), the representative of the IFRB said that he did not consider it necessary to have a cross-reference to the Agreement in the Radio Regulations, but if it were found necessary to incorporate the Regional Agreement in the Radio Regulations that would have to be done through a WARC.

1.4 The representative of the IFRB proposed that in Article 7 reference should be made to Articles 4 and 6 of the Agreement.

It was so agreed.

1.5 In reply to a question by the delegate of the USSR, as to whether it was necessary to include Article 13 as drafted, the Legal Adviser said that three considerations should be borne in mind. First, the mandate of the Conference, as set out in Administrative Council Resolution No. 897, did not mention abrogation of the Copenhagen Plan, 1948. Secondly, Article 7 of the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948 clearly stated that that Convention and the Annexed Plan should be automatically abrogated as from the entry into force of a new Plan, and reference to the Vienna Convention on the Law of Treaties made it clear that the fact that the present Conference was establishing an Agreement and not a Convention was immaterial. Hence, from the legal point of view it was not necessary to take any steps to abrogate the Copenhagen Convention and Plan. The third consideration was that both Resolution No. 7 of the Nairobi Plenipotentiary Conference and Resolution No. 704 of MOB-WARC-83 mentioned the adoption of instruments for the abrogation of the Copenhagen Convention. However, those Resolutions were addressed to administrations and Parties to the Convention and not to the present Conference. If, as a result of the third consideration, the Conference decided to address the matter of abrogation, he considered that it would be better to do so in the Preamble to the Agreement rather than in an Article. He would make proposals for the amended text of the Preamble and of an amended Article 13 available as a document.

1.6 The delegates of the USSR, France and Italy expressed a preference for having the reference to abrogation in the text of an amended Article 13.

1.7 The delegate of the Netherlands said he would prefer it to be in the Preamble.

1.8 The delegate of the United Kingdom said that he would prefer the reference to be in the Preamble, but he had no strong views and could support an Article if the majority so desired.

1.9 The representative of the IFRB pointed out that one drawback of having the reference in the Preamble was that, as the Legal Adviser had recalled, Resolution No. 7 of the Nairobi Plenipotentiary Conference had invited only Contracting Parties of the Copenhagen Plan to consider its abrogation. A reference in the Preamble to the Agreement would mean that all countries would be taking a decision concerning something which affected only a limited number of them.

It was agreed that further consideration of the Preamble and Article 13 would be suspended, pending receipt of the Legal Adviser's document.

Subject to that decision, the draft Agreement was approved.

Annex 2: Draft Recommendations Nos. COM 6/A (MM), COM 6/B (MM), and COM 6/C (MM)

It was agreed to bring into line the headings of the draft Recommendations and the Annexes thereto.

1.10 The delegate of Denmark suggested the insertion of a sentence relating to the dates during which the channelling arrangements would be in force.

1.11 The representative of the IFRB recommended that the decision on dates for implementation should be left to the 1987 WARC, and that the frequency assignment tables should be incorporated in the Agreement by the present Conference.

It was so agreed.

1.12 After a discussion in which the delegates of Spain, the United Kingdom, Netherlands, USSR and France participated, the Chairman suggested that the figures 2 142 - 2 160 kHz in the title of draft Recommendation No. COM 6/B (MM) should be placed in square brackets pending a decision from Committee 5.

It was so agreed.

1.13 Following a comment by the delegate of the Netherlands, the Chairman proposed that the figures 2 045 - 2 142 kHz in the title of draft Recommendation No. COM 6/C (MM) should be placed in square brackets, pending a decision by Committee 5.

It was so decided.

Draft Recommendations Nos. COM 6/A (MM), COM 6/B (MM) and COM 6/C (MM) were approved, with the proviso that the Annexes thereto would be developed by Committee 5.

2. Date of entry into force of the Agreement (Documents 5, 8, 9, 17, 32 and 43)

2.1 The delegates of the German Democratic Republic, USSR, the United Kingdom, France, Yugoslavia and Kenya presented the proposals set out in the documents they had submitted.

2.2 The delegate of the Netherlands expressed a strong preference for an early date, despite the financial and technical implications.

2.3 The delegate of Denmark also urged the adoption of an early date, his preference being for 1988.

2.4 The delegate of Portugal suggested a date between 1988 and 1990.

2.5 The delegate of Greece advocated 1 February 1997 in accordance with the new Global Maritime Distress and Safety System set up under the auspices of IMO.

2.6 The representative of the IFRB pointed out that it would be possible to set different dates for the entry into force of the Agreement and for the different plans.

2.7 The delegate of the Netherlands, supported by the delegates of Spain, the Federal Republic of Germany, the USSR and France, urged that a single date should be adopted in order to avoid complication.

2.8 The delegate of Iraq stressed that the date should be such that all signatories to the Agreement could abide by it and hence in setting it, account should be taken of the difficulties facing certain countries. He proposed that it should be 1995.

2.9 The delegates of Kenya, Ireland, the United Kingdom, Denmark and Switzerland proposed 1990, while the delegates of the USSR, the German Democratic Republic, Greece, Saudi Arabia and Algeria expressed a preference for 1992 or 1993.

2.10 After some discussion the delegate of the Netherlands, supported by the delegates of Iraq, France and Algeria, suggested that the Committee should defer its decision on the matter to the next meeting so as to allow time for consultations, while bearing in mind the two proposed dates of 1990 and 1992.

It was so agreed.

The meeting was suspended at 1200 hours and resumed at 1400 hours.

3. Report of the ad hoc Group of Committee 6 to Committee 6 (Document 82)

3.1 The Chairman of the ad hoc Group introduced the document, which contained draft Technical Annexes A and B, based on Documents 60, 61, 62 and 65 considered by Committee 4. The Group had envisaged the possibility of inserting a section on terms and definitions, but had concluded that there would not be time to do so and that the only term that really needed definition was the "minimum usable field strength"; since no appropriate definition was to be found in the CCIR Books, it had been decided to replace those words by "minimum field strength to be protected", the term used by the IFRB.

3.2 The delegate of Spain said that, since his delegation had no alternative layout to propose for Annex A, it withdrew the reservation referred to on page 1.

Annex A

3.3 The Chairman of the ad hoc Group said that the term "minimum usable field strength" in the ninth line of 1.1 should be replaced by "minimum field strength to be protected".

3.4 The delegate of France said that "2.8" should be inserted after "2.7" in the second line.

3.5 The representative of the IFRB observed that the ad hoc Group's anxiety to make the paragraph as brief as possible had led to some inaccuracies in the text. For example, narrow-band direct-printing was operated in all bands above 1 606.5 kHz, and the references to the minimum field strength to be protected and protection ratios had no place in a paragraph entitled "Modes of operation and classes of emission".

It was agreed that paragraph 1.1 should be redrafted.

3.6 The delegate of Finland drew attention to the decision of Committee 5 not to take sky-wave propagation into account in the second computer run of the Plan and suggested that paragraphs 1.2.2 and 1.2.3 should be placed in square brackets pending a final decision on the matter by the Plenary Meeting.

3.7 The representative of the IFRB observed that, to avoid any misunderstanding in connection with cases where the ground-wave might have to be protected at night-time, a paragraph should be inserted stating that planning had been based on protection of ground-waves against other ground-waves only. The Committee should further consider whether modifications to the Plan would also be based on those criteria and should insert in the Annex a section on the criteria used to examine compatibility between the maritime mobile service and the fixed and land mobile services; the relevant IFRB Technical Standard provided for sky-wave and ground-wave protection. In reply to the delegate of Spain, he confirmed that administrations not parties to the Agreement would be governed by the IFRB Technical Standard and would therefore receive protection from both sky-wave and ground-wave propagation, while the Parties would be protected from ground-wave propagation only.

After some discussion, it was agreed that paragraphs 1.2.2 and 1.2.3 should be placed in square brackets and that paragraph 1.2.1 should be redrafted in the light of the debate.

3.8 The delegate of Spain suggested that some explanatory wording should be added to the symbols and figures in paragraphs 1.6.1 and 1.6.2.

3.9 In response to a comment by the delegate of Finland, the Chairman of the ad hoc Group said that the references to sky-wave propagation in paragraph 1.8 should be placed in square brackets, as had been done in the case of paragraph 1.2.2. The delegate of Greece supported that suggestion.

3.10 The representative of the IFRB pointed out that, whereas the first sentence of the paragraph was a statement of fact, the second referred to CCIR Recommendations and consequently to matters on which administrations had agreed bilaterally. The sentence therefore had no place in the Annex and should be deleted. The delegates of Italy and the Federal Republic of Germany endorsed that view.

3.11 A suggestion by the delegate of France that the sentence should be retained in the form of a footnote led to a discussion during which the delegate of Norway said that that and other additional information might form a short separate Annex and the Chairman of the IFRB suggested that the sentence could be added as a footnote to Annex B, with the replacement of the last two words by "may be used by administrations in the application of the Article 4 procedure".

It was finally agreed to delete the sentence from paragraph 1.8 and to insert it, as amended, in the form of a footnote to Article 4 of the Agreement.

3.12 With regard to the second sub-paragraph, the Chairman of Committee 5 said that the contents of the square brackets could be deleted in the light of his Committee's decisions.

3.13 The Chairman of the ad hoc Group and the delegate of Finland thought that the square brackets should be retained, since the use of directional antennas might be one of the solutions that administrations would adopt to resolve incompatibilities arising from the second run of the Plan.

It was agreed to retain the square brackets.

3.14 The Chairman of the ad hoc Group said that the IFRB should be asked to specify the correct class of emission for non-directional beacons, referred to in the first line of paragraph 2.1.

3.15 The Chairman of the ad hoc Group said that a new table would be prepared for paragraph 2.4 to take account of the decision of Committee 5 to allow for an interleaved frequency separation of 0.5 kHz.

3.16 The delegate of the USSR said that the text appearing in Document 80 should be inserted in paragraph 2.6. The Chairman of the ad hoc Group said that the words "may also be used" in that text should be replaced by "were also used" and the word "does" should be changed to "did".

3.17 The representative of the IFRB, supported by the delegate of Finland, said that, by analogy with paragraph 1.8, paragraph 2.8 should end with the word "underestimated" in the sixth line and that the rest of the text should take the form of an appropriate footnote.

Annex A was approved as amended, subject to the redrafting of paragraphs 1.1 and 1.2.1.

Annex B

3.18 The Chairman of the ad hoc Group drew attention to the sentence in square brackets at the end of the first paragraph of section 1. Delegations taking part in the discussion had not supported the content of that addition, which was based on a suggestion from the IFRB, whose Chairman might wish to explain it.

The other square brackets in section 1 a) referred to the question of using ground-wave propagation only or ground-wave and sky-wave propagation.

3.19 The representative of the IFRB explained that two administrations might agree that two stations could enter the Plan, though there might be some incompatibility, if it was clear that they would not interfere with each other. However, it might happen that a station appearing in the Plan was already subject to an interfering signal from some other administration that was less than the stated protection criteria. It should be decided whether that administration ought to be included in the procedure from another entry in the Plan, since the present Conference was only considering single-entry interference.

Objections to such a suggestion having been stated by the delegates of Finland and of the Federal Republic of Germany, he explained that he had merely wished to identify the problem: the Board would concur with any decision taken by the Conference.

3.20 In reply to a question from the delegate of Spain as to where the wanted-to-unwanted signal ratio should be calculated, the Chairman of the ad hoc Group said that it should be done over sea, normally at the limit of the service area most likely to be affected by the other station.

3.21 The representative of the IFRB endorsed that view. A paragraph should be added to indicate that the field strength was calculated at the limit of the service area which was compatible with the ARP or power notified.

3.22 The Chairman of the ad hoc Group suggested that the sentence beginning "the Board in communicating the listed administrations with which coordination is necessary ..." should be indented in line with a) and b).

It was so agreed.

3.23 The delegate of Finland said that the heading of Annex B and the beginning of the first paragraph should be amended to ensure that the text was not interpreted as giving a final decision on the compatibility or otherwise of a new assignment, which was a matter for the administrations concerned.

3.24 The representative of the IFRB concurred with that suggestion and proposed that the title of the Annex be amended to read: "Limits for the identification of administrations the agreement of which is required in accordance with Article 4 of the Agreement", and that an introductory sentence be added reading:

"The following limits shall be calculated in order to identify the administrations the agreement of which is required in accordance with the Plan."

3.25 The delegate of France said that he proposed to redraft the paragraph titles in the French version, which were well-nigh incomprehensible.

It was so agreed.

3.26 The representative of the IFRB said that he had understood that the bands listed in section 2 were those which were required to be planned by the Conference. If so, when an administration proposed to bring a new assignment into the permitted services in those bands, that assignment would have to follow the process of modification to the Plan and therefore there should be no need for section 2.

3.27 The Chairman of the ad hoc Group replied that the section might indeed be unnecessary if the Conference decided that the permitted services would be planned; but that decision had not yet been taken.

3.28 The Chairman of the IFRB said that if the two permitted services were not planned then the stations in the Master Register would have to be protected. The purpose of section 2 was to find the criteria that would be used to determine whether the administrations of those permitted services would be affected by the proposed change to the Plan.

3.29 The Chairman of Committee 5 commented that provision had been made by Committee 5 for planning of the permitted services in the bands 415 - 435 kHz and 505 - 526.5 kHz.

3.30 The Chairman of the ad hoc Group suggested that the paragraph starting "The Board in communicating the list of administrations with which coordination is necessary ..." should be indented under a) and that the words in square brackets at the end of the first paragraph should be deleted.

It was so agreed.

3.31 The Chairman of the ad hoc Group said that it should be made clear that the figures at the end of the document were in fact part of Annex A.

3.32 In reply to the delegate of Finland, who pointed out that it might be necessary to delete Figure 2, the Chairman said that the Committee would reconsider the matter after a decision had been taken on the sky-wave propagation question.

3.33 The representative of the IFRB, supported by the delegate of Finland, proposed to add in the third line of section 3 after "using" the words "ground-wave propagation curve for the wanted and unwanted signal and the current technical standards of the Board". There was a need either to add a paragraph or to amend section 3 in order to cover the case of modifications to the Plan and the criteria to be used in order to protect the permitted and primary services.

In reply to the delegate of Spain, who proposed to delete section 3 altogether, he said that in that case the last paragraph of Chapter 6 would have to be amended to indicate that the Board would use its technical standards. However, discrepancies would then arise.

After a short discussion, it was agreed that the text of section 3 should be redrafted and re-submitted to the Committee for discussion.

4. Note by the Chairman of Committee 3 (Document 58(Rev.1))

4.1 The Chairman of Committee 3, introducing Document 58(Rev.1), said that because of the pressure of time it would be appreciated if Committee 3 could be informed as soon as possible of any decision taken by Committee 6 that might have a budgetary impact.

4.2 The representative of the IFRB warned that because of the short duration of the Conference, an exact assessment of the possible financial consequences of its decisions might be difficult to achieve before the closing date. The IFRB was in the process of preparing an analysis of the decisions already taken at the Conference for submission to Committee 3 at its next meeting. However, the Committee should note that although the decisions so far adopted by the Conference were unlikely to make financial demands on the budgets of the Union, a number of additional procedures to be carried out in the period immediately following the Conference, which were at present under consideration by Committee 5 for submission to Committee 6, might well do so.

Document 58(Rev.1) and the above comments were noted.

5. Proposal from the French Administration with regard to off-keying signals (Document 72)

5.1 The delegate of France said that although there were a number of Radio Regulations prohibiting coast and ship stations from continuing to emit signals when they were no longer transmitting information, that practice still occurred. It was felt that a reminder of the relevant instructions in the Radio Regulations was required elsewhere, hence the French proposal that the sentence in paragraph 1 of Document 72 should be inserted either in the Agreement or as a Preamble to the Plan.

5.2 Doubts as to whether the proposed sentence ought to appear anywhere in the Final Acts of the Conference, since its substance was covered by the Radio Regulations, were expressed by the delegates of the Netherlands and the USSR, the latter adding that the proposal would not have the effect intended since the reference handbooks used by the ship and coast station operators to whom it was directed would in most cases be the Radio Regulations or the manual of the maritime mobile service and not the Agreement or the Plan.

5.3 In the light of those comments, the delegate of France said he would not press his proposal.

6. Note by the Chairman of Committee 5 and proposal by France (Documents 72 and 83)

6.1 The Chairman of Committee 5 said that Document 83 contained a text that had been approved in verbal form by Committee 5 the previous day. It was being submitted to Committee 6 so that an appropriate place could be found for its insertion in the Agreement. Failure to remove the interference described in the proposal would render the Plan inoperable.

6.2 The delegate of France said that now that the text approved verbally in Committee 5 the previous day was available in writing, it could be seen to be quite different in emphasis to the text proposed by France on the same subject, which appeared as paragraph 2 in Document 72. He considered the latter proposal a more realistic one since it acknowledged the fact that the bilateral links concerned could and would continue to be established.

6.3 The delegate of Finland said he found it hard to see how either proposed provision, although desirable, could be applied in practice. Such rules could only be made binding on the ships of countries outside the contracting administrations by an appropriate addition to the Radio Regulations, a procedure outside the competence of the present Conference. In any case, operators using such links were often unaware they were causing interference to coast stations other than the one they were communicating with.

6.4 The delegate of the USSR, although having no objection to the substance of the two proposals, also doubted whether inclusion of the relevant texts in the Plan or the Agreement would bring them to the notice of the coast and ship station operators concerned. However, he suggested that the proposed text in Document 83 could appear as a separate paragraph after paragraph 5 in Article 3 of the Agreement and also in the Annex to the Plan at the point where the relevant frequency band was being dealt with. The text proposed by France could be inserted as a footnote to the Plan.

6.5 The Chairman of Committee 5 said that inclusion of the text proposed in Document 83 in the list of ship stations might be a way of drawing the attention of ship stations from outside the Plan area to the provision.

On a proposal by the Chairman, it was decided to continue the discussion at the next meeting of Committee 6.

The meeting rose at 1705 hours.

The Secretary: The Chairman:

J. BALFROID S. CHALLO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

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13 March 1985
Original: English

COMMITTEE 6

SUMMARY RECORD

OF THE

FIFTH MEETING OF COMMITTEE 6

(AGREEMENT AND PROCEDURES)

Friday, 8 March 1985 at 0910 hrs and at 1430 hrs

Chairman: Mr. S. CHALLO (Kenya)

Subjects discussed:	Documents
1. Note concerning unsatisfied requirements from the Chairman of Committee 5 to Committee 6	84
2. First and second reports of Working Group 6A to Committee 6 including report of ad hoc Group and Note from Chairman of Working Group 6A	77, 90, 91, 96
3. Consideration of the question of abrogation of the Copenhagen Convention	95
4. Further consideration of Document 83 and item 2 of Document 72	72, 83
5. Further consideration of the date of entry into force of the Agreement	-

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1. Note concerning unsatisfied requirements from the Chairman of Committee 5 to Committee 6 (Document 84)

1.1 The Chairman of Committee 5 introducing the document said that his Committee had considered that some arrangement should be made by Committee 6 for dealing with the list of unsatisfied requirements after the second print-out. Committee 6 might wish to abandon the list entirely or deal with it by means of a Recommendation or a Resolution.

1.2 The representative of the IFRB said that in the past when the number of unsatisfied requirements had been relatively small, such lists had been annexed to the Plan so that solutions might be found through coordination between administrations with the assistance of the Board. The same solution had also been adopted in conferences where the Plan had not been based on a computerized planning method but on a list of frequencies as supplied by administrations. At the present Conference, however, some 15 to 20% of the requirements would be unsatisfied and the computerized planning method provided an objective assignment of frequencies which left no room for the introduction of additional requirements in the band. It might be possible to include some of the requirements on the list by optimizing the Swedish program.

1.3 The Chairman of Committee 5 pointed out that bilateral negotiations to reduce the number of unsatisfied requirements could be undertaken between administrations from Monday, 11 March when the Plan became available up to its adoption in the Plenary.

1.4 The delegate of Sweden proposed that the list be abandoned entirely and administrations be left to deal with the matter from scratch under the modification procedure, since by 1988, the earliest proposed date for entry into force of the Plan, the situation might have changed radically for some administrations.

1.5 The delegate of the United Kingdom said that the only way unsatisfied requirements could be solved would be through bilateral or multilateral discussions after the Conference had ended. No action could therefore usefully be taken at the Conference itself to assist in any way. He therefore strongly supported the Swedish proposal.

1.6 The delegate of Spain pointed out that while the planning affected the whole of the 500 kHz band, it affected only part of the 2 MHz band. Any unsatisfied requirements for telephony and direct printing for telegraphy might therefore be catered for in the parts of the unused band under Appendix 3 to Resolution No. 704.

1.7 The delegate of the Federal Republic of Germany proposed that a list of unsatisfied requirements be published as a Conference document from Committee 5 to assist those wishing to solve outstanding problems after the Conference.

1.8 The delegate of the Netherlands felt that a list might be annexed to the Plan if it could be considered as starting the procedure indicated in Article 4 of the Agreement, so that a certain preference, but no special status, might be accorded to it.

1.9 The delegate of Sweden pointed out that such a list would be of little use since administrations had no way of knowing from it how their needs compared with those of a neighbouring country, which would in any event have to be contacted. The idea of using such a list to start the modification procedure was not realistic since it would impose an unduly heavy burden on the Board.

1.10 The representative of the IFRB said that the Committee should bear in mind that the planning process adopted by the Conference consisted of publishing the list of requirements that could be not satisfied, with no indications of the frequencies for each of the requirements, and it did not indicate the results of calculations in terms of protection ratio. Unsatisfied requirements therefore did not contain any indication of frequencies, and satisfied requirements did not contain any indication of the unsatisfied requirements that might affect them, to permit coordination during the Conference. In addition, because of the limitations of the computer system, an assessment of the protection ratios could only be made after the Conference. The Conference had used the Swedish program for planning purposes, and the IFRB's program for compatibility between the Plan and the permitted and primary services. After the Conference, a programme would have to be prepared to enable the Board to calculate compatibility between assignments in the Plan for recording purposes so that the exact situation was known when modifications were submitted.

Instead of the Conference drawing up a list, which would be considered as a first step in the application of Article 4, it might be more satisfactory for the Committee to draft a Recommendation to administrations, urging them to continue negotiations after the Conference.

1.11 The delegate of Finland said that although a list would probably be outdated long before the entry into force of the Plan and the Final Acts, and consequently be misleading, some kind of summary of unsatisfied requirements, with no official status, would provide a useful basis for post-Conference work. He could therefore support either the proposal put forward by the Federal Republic of Germany to have such a list issued as a Conference document, or the suggestion made by the representative of the IFRB to draft a Recommendation to administrations.

1.12 The delegate of the United Kingdom endorsed those views.

1.13 After a brief discussion during which delegates expressed their preference for one or other of the suggestions put forward, the delegate of Algeria proposed that a further considering be added to draft Recommendation No. COM 6/D (MM) contained in Annex 2 of Document 96 as follows:

> "considering that a certain number of requirements presented by administrations have not been satisfied."

In addition, a Conference document as proposed by the Federal Republic of Germany could be issued and circulated to all administrations by the Secretary-General.

It was so agreed.

2. First and second reports of Working Group 6A to Committee 6 including report of ad hoc Group and Note from Chairman of Working Group 6A (Documents 77, 90, 91, 96)

2.1 The Chairman of Working Group 6A, introducing the Group's first report in Document 77, said that although there were only slight differences between sections B and C it had been decided that it would be easier for administrations to have two separate sections. The report of the ad hoc Group established to study the text of paragraph 30 was contained in Document 96, and he wished to draw attention to two editorial changes to be made to the English text.

2.2 The delegate of the Netherlands said that the Article as drafted assumed that there would be a plan for the 415 - 435 kHz band for the maritime mobile service; if such a plan did not materialize, it would be necessary to include an additional paragraph along the lines of paragraph 3 b).

2.3 The representative of the IFRB, replying to a question from the delegate of Finland, said that the IFRB would disregard paragraph 17 since it concerned administrations.

2.4 The delegate of the USSR said that it would be important to have a procedure in the Agreement for taking account of frequency assignments for the permitted and primary services.

2.5 The Chairman invited the Committee to consider the proposed Articles 4, 5 and 6.

2.6 The delegate of the United Kingdom said that in the proposed paragraph 4bis) in Document 91 the word "are" in the fourth line should be replaced by "shall be".

2.7 The delegate of the USSR, supported by the delegate of Poland, proposed that in the second line of paragraph 13 the words "an administration having an assignment in the Plans" should be replaced by "the administration concerned".

It was so agreed.

2.8 The Chairman of Working Group 6A said that a new paragraph 18bis), identical to paragraph 4bis), should be inserted.

2.9 The representative of the IFRB said that if the decision of Committee 5 in paragraph 5 of Document 85 was adopted it should be incorporated in section C.

2.10 The Chairman pointed out that paragraph 27 should be amended in the same way as paragraph 13.

2.11 The Chairman of the ad hoc Group, introducing Document 96, said that in the light of the discussion he proposed to place the new paragraph 30bis) in Annex 1 in square brackets; the same would apply to operative paragraph 2 of the draft Recommendation in Annex 2. He also proposed the insertion of a new preambular paragraph e)bis:

> "that the Conference identified those requirements of administrations which could not be satisfied."

In order to avoid any contradiction between preambular paragraphs b) and e)bis, he proposed to replace the words "included in these Plans the requirements communicated by administrations" by "prepared these Plans".

2.12 The delegate of the USSR said that the title of the Recommendation in Document 96 should be amended to take account of the inclusion of a provision concerning unsatisfied requirements.

2.13 The Chairman said that the matter would be considered by the Plenary Meeting.

2.14 The representative of the IFRB said that the frequency band 1 606.6 - 1 625 kHz should be inserted in paragraph 1 of Article 6, and paragraph 4 of Article 6 should be placed in square brackets.

The proposed Articles 4, 5 and 6 of the draft Agreement were approved, as amended.

The meeting was suspended at 1210 hours and resumed at 1445 hours.

2.15 The Chairman of Working Group 6A presented the second report of the Working Group (Document 90) comprising three draft Resolutions.

Draft Resolution No. COM 6/1 (MM)

2.16 The Chairman of Working Group 6A said that the Working Group was unanimous in proposing the addition of the words "together with the provisions of resolves 3" to the end of resolves 2.

The Committee took note of draft Resolution No. COM 6/1 (MM) and of the proposal made by Working Group 6A.

Draft Resolution No. COM 6/2 (MM)

2.17 The delegate of the United Kingdom having pointed out that the second and third lines of resolves 1 needed some editorial attention, the representative of the IFRB said that the text should read:

"... the IFRB shall send to each administration a list of the assignments to stations of the planned services entered on its behalf in the Master International Frequency Register...".

It was so agreed.

The Committee took note of draft Resolution No. COM 6/2 (MM), as amended.

Draft Resolution No. COM 6/3 (MM)

2.18 The Chairman of Working Group 6A drew attention to the square brackets placed around resolves 1, 2 and 3 pending the indication of replacement frequencies in the Plan.

2.19 The representative of the IFRB said that since the draft Resolution had been discussed by Working Group 6A it had become clear that all replacement frequencies could be indicated in the Plan. He therefore requested that resolves 1 and resolves 2 should be deleted.

It was so agreed.

He pointed out that square brackets had been placed around resolves 3 in error. Some redrafting was, however, needed for that paragraph.

The Committee took note of draft Resolution No. COM 6/3 (MM).

2.20 The representative of the IFRB said that it might be necessary for a further Resolution to be drawn up once the work of Committee 5 concerning compatibility between the permitted services and the planned services was complete.

He also raised the question of protection ratios for channels with spacing of 0.5 kHz and pointed out that Committee 5 should be requested to give a clear indication as to any necessary additional provisions concerning that matter.

2.21 The delegate of Sweden agreed that Committee 5 should be requested to give precise information about the conditions on which 0.5 kHz separation was allowed for aeronautical navigation services.

2.22 The delegate of the USSR said that Committee 5 had stated clearly that the normal spacing for international use was 1 kHz and that 0.5 kHz could be allowed only for national use. He stressed that the standards inherent in the Plan must ensure freedom from interference.

2.23 The representative of the IFRB pointed out that the Board had no means of differentiating between the two levels of use. It could consider only what was set out in the plans and, if 0.5 kHz separation was shown there, a decision must be made about the protection procedures.

2.24 The delegate of Sweden suggested that a decision concerning the use of 0.5 kHz spacing could be deferred until after ICAO coordination had taken place. Then, if needed, it could be included in the Plan.

2.25 The Chairman of Committee 4 pointed out that Document DT/18 indicated clearly a solution for establishing protection ratios for the aeronautical radionavigation service for a channel spacing of 0.5 kHz.

3. Consideration of the question of abrogation of the Copenhagen Convention (Document 95)

3.1 The Chairman asked for preferences as between the three possible courses of action suggested in Document 95 in regard to the abrogation of the Copenhagen Convention.

3.2 The delegates of the United Kingdom and the Federal Republic of Germany favoured the first option (taking no action) but would be willing to accept the majority view.

3.3 The delegates of Italy, the USSR, Poland, France, and Portugal supported the third option (a revised Article 13, as set out in paragraph 11 of Document 95).

3.4 The representative of the IFRB suggested that the revised text of that Article be amended to read as follows:

> "The present Agreement and the Plan annexed hereto are considered by the Contracting Parties to the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948, to be the appropriate instruments to abrogate that Convention and the Copenhagen Plan annexed thereto ... etc."
>
> The Article, thus amended, was approved.

4. Further consideration of Document 83 and item 2 of Document 72 (Documents 72, 83)

4.1 The delegate of France, introducing his delegation's proposal (Document 72) said it was intended to cover cases where communications were established between a coast station and a ship station situated outside that coast station's coverage area, cases which would inevitably occur in practice. It was less restrictive than the formula proposed in Document 83.

4.2 The delegate of Sweden supported by the delegate of Norway, said that the fact that such communications were bound to occur was not a reason for allowing for them under the Agreement. Such a provision would jeopardize the whole intent of the Plan, which was to establish protection ratios to ensure that essential communications did not suffer from harmful interference. He strongly urged the adoption of the text contained in Document 83.

4.3 The delegate of the USSR supported that view and recalled that he had proposed that the text be incorporated in Article 3 of the Agreement.

It was agreed in principle to incorporate into the Agreement the text contained in Document 83.

5. Further consideration of the date of entry into force of the Agreement

5.1 The Chairman recalled that two alternative dates, 1990 or 1992, had been put forward as a compromise between the more extreme solutions suggested earlier.

5.2 The delegate of Sweden considered both dates rather late and urged the Committee to reconsider the possibility of 1988, which would allow ample time for any necessary adjustments.

5.3 The delegate of Norway also favoured an early date, in order to meet the urgent needs described in Recommendation No. 704. Early implementation would not necessarily mean major changes in equipment for coast or ship stations; only minor adjustments would be required.

5.4 The delegate of the United Kingdom also saw no reason why implementation of the Plan should be delayed any longer than was normal in the case of other ITU agreements. He too supported 1988, but could reluctantly agree to 1990 as a compromise.

5.5 The delegate of Denmark supported that view.

5.6 The delegates of France, Greece, Cyprus and Algeria said they could not accept an implementation date earlier than 1992.

5.7 The delegate of the USSR suggested that since it was unlikely that any consensus on a date could be reached in committee, the matter should be referred to the Plenary.

It was so agreed.

The meeting rose at 1600 hours.

The Secretary: J. BALFROID

The Chairman: S. CHALLO

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 127-E
11 March 1985

B.4 (MM) PLENARY MEETING

FOURTH SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
COM.6	119	Annex 2: Technical data Recommendation No. COM 6 (MM)

J.-L. BLANC
Chairman of the Editorial Committee

Annex: 14 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX 2

Technical data

PART A

Technical parameters used in establishing frequency assignment plans in Region 1 for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and for the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz

1. Maritime mobile service

1.1 Designation of emission

The Plan for the maritime mobile service was established for the following designations of emission in accordance with the channel arrangements as indicated in Annex [ ].

1.1.1 Morse telegraphy, designation of emission 100HA1A, bands 415 - 435 kHz and 435 - 526.5 kHz.

1.1.2 Narrow-band direct printing (transmission rate 100 bauds, frequency deviation ±85 Hz), designation of emission 304HF1B and digital selective calling (transmission rate 100 bauds, frequency deviation ±85 Hz), designation of emission 304HF1B in the bands 435 - 526.5 kHz, 1 606.5 - 1 625 kHz and 2 045 - 2 160 kHz.

1.1.3 Single-sideband telephony (upper sideband), designation of emission [2.7] KJ3E in the bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz.

1.2 Propagation

1.2.1 Ground-wave propagation[1]

Ground-wave propagation was calculated according to CCIR Recommendation 368-4 for propagation over sea water, average salinity, 20°C, σ = 5 S/m and ε = 70. For the bands 415 - 435 kHz, 435 - 526.5 kHz and above 1 606.5 kHz the curves for 400 kHz, 500 kHz and 2 MHz, respectively, were used. The curves applied are given in Figure 1; they refer to an e.m.r.p. of 1 kW.

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[1] To be modified should sections 1.2.2 and 1.2.3 be deleted.

[1.2.2 Sky-wave propagation

Sky-wave propagation was calculated according to CCIR Recommendation 435-4 for midnight conditions. Polarization coupling loss and sea gain were not taken into account. Field strengths produced by coast stations situated north of and on parallel 20° North, and south of parallel 20° North, were calculated for geomagnetic latitudes 50° North and 30° South, respectively.

For the bands below 526.5 kHz and above 1 606.5 kHz the curves were calculated for 500 kHz and 1 800 kHz, respectively. They are given in Figure 2 and refer to an e.m.r.p. of 1 kW.]

[1.2.3 Application of ground- and sky-wave propagation

The ground-wave field strength was used to determine the coverage area and, where no night-time protection was required, also the interference range. The maximum of ground- and sky-wave field strength was used to determine the interference range where night-time protection was required.]

1.3 Minimum field strength to be protected

The following values of the minimum field strength to be protected, which include allowances for variations in noise level with time and signal fading with time, were applied:

1.3.1 Class of emission A1A

Bands 415 - 435 kHz and 435 - 526.5 kHz:

36.5 dB(μV/m) north of and on parallel 30° North, and
56.5 dB(μV/m) south of parallel 30° North.

1.3.2 Class of emission F1B

Since the emission characteristics of narrow-band direct printing and digital selective calling are essentially the same, they require the same minimum field strength to be protected.

Band 435 - 526.5 kHz:

31.5 dB(μV/m) north of and on parallel 30° North, and
51.5 dB(μV/m) south of parallel 30° North.

Bands 1 606.5 - 1 625 kHz and 2 045 - 2 160 kHz:

22.5 dB(μV/m) north of and on parallel 30° North, and
42.5 dB(μV/m) south of parallel 30° North.

1.3.3 Class of emission J3E

Bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz:

37 dB(μV/m) north of and on parallel 30° North, and
57 dB(μV/m) south of parallel 30° North

1.4 Protection ratio

The following values of protection ratio (see No. 164 of the Radio Regulations) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB		
	Wanted signal		
	A1A interfering signal A1A or F1B	F1B interfering signal F1B or A1A	J3E interfering signal J3E
0	8	8	20
0.5	-13	-38	
1.0	-26	-62	
1.5	-42		
2.0	-60		
3.0			-25
6.0			-50

Note - Since the emission characteristics of narrow-band direct printing (class of emission F1B) and digital selective calling (class of emission F1B) are essentially the same, they have the same interference potential and require the same protection ratios.

1.5 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering signal was considered.

1.6 Channel spacing

1.6.1 Planning was based on a channel spacing of 0.5 kHz for A1A and F1B emissions.

1.6.2 Planning was based on a channel spacing of 3 kHz for J3E emissions.

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1.7 Transmitted power

The effective monopole radiated power (e.m.r.p., see No. 157 of the Radio Regulations) was derived from the minimum field strength to be protected at the edge of the coverage area. The power supplied to the antenna transmission line was derived from the e.m.r.p. by applying the following typical values of antenna gain (see No. 154 of the Radio Regulations) relative to a short vertical antenna, which include the loss of the antenna coupling unit:

1.7.1 Bands below 526.5 kHz: -7 dB;

1.7.2 Bands above 1 606.5 kHz: -4 dB.

1.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the plan could take account neither of propagation over mixed land/sea paths nor of a more sophisticated method of sky-wave field strength prediction. These factors were, however, taken into consideration by administrations in a case by case analysis, when solving incompatibilities during the Conference.

[In general], omnidirectional antennas were assumed. [However, on a case by case basis, directional antennas were taken into consideration, which increased the sharing possibilities.]

2. Aeronautical radionavigation service

2.1 Designation of emission

The Plan for the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz was established on the basis of class of emission NØN; however, it indicates only the classes of emission used during the transmission of the identification signal (A1A, A2A, etc.). Two types of beacon with class of emission A2A are generally used, i.e. with modulation frequencies of 400 Hz (±25 Hz) and 1 020 Hz (±50 Hz).[1]

2.2 Propagation

The ground-wave mode of propagation only was used. Ground-wave field strength was calculated according to CCIR Recommendation 368-4 for propagation over wet ground, σ = 10-2 S/m, ε = 30. For the bands 415 - 435 kHz and 510 - 526.5 kHz the curves for 400 kHz and 500 kHz, respectively, were used. They are given in Figure 3 and refer to an e.m.r.p. of 1 kW.

For propagation over mixed land/sea paths see section 2.8.

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1 The list of requirements contains different classes of emission from which no rule can be developed for the determination of the necessary bandwidth. Further information is required from Committee 5.

2.3 Minimum field strength to be protected

The following values of the minimum field strength to be protected (see also Nos. 2856 and 2857 of the Radio Regulations) were applied:

2.3.1 37 dB(μV/m) for stations north of parallel 30° North and south of parallel 30° South; [and on these parallels]

2.3.2 41.6 dB(μV/m) for stations between parallels 30° North and 30° South.

2.4 Protection ratio

The following values of protection ratio (see Nos. 164 and 2854 of the Radio Regulations) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB
0	15
0.5	15
1	9
1.5	2
2	-5
2.5	-12.5
3	-20
3.5	-27.5
4	-35
4.5	-42.5
5	-50
5.5	-57.5
6	-65

2.5 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering signal was considered.

2.6 Channel spacing

Planning was based on a channel spacing of 1 kHz. However, in exceptional cases, and for national use only, interleaved channels at 0.5 kHz were also adopted, provided that this did not adversely affect assignments in the Plan on integer multiples of 1 kHz.

2.7 Transmitted power

The effective monopole radiated power (e.m.r.p., see No. 157 of the Radio Regulations) was derived from the minimum field strength to be protected at the edge of the coverage area.

2.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the Plan could not take account of propagation over mixed land/sea paths. Section 2.2 indicates that the propagation characteristics were predicted as for "wet ground". Hence in cases where a significant fraction of the path from an interfering emission to the wanted coverage area crosses sea water the predicted interference level may have been underestimated.

3. Compatibility between the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz and at the band limit around 435 kHz

3.1 Protection of stations of the maritime mobile service against interference from stations of the aeronautical radionavigation service

3.1.1 The parameters given in sections 1.2, 1.3 and 1.5 to 1.8 were applied.

3.1.2 The protection ratios were as follows:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB			
	interfering radiobeacon with 400 Hz modulation		interfering radiobeacon with 1 020 Hz modulation	
	wanted signal A1A	wanted signal F1B	wanted signal A1A	wanted signal F1B
0	8	8	8	8
0.5	2	2	-13	-38
1.0	-19	-44	2	2
1.5	-32	-68	-19	-44
2.0	-48		-32	-68
2.5	-66		-48	
3.0			-66	

Note - These protection ratios were established on the basis of an A2A radiobeacon emission.

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3.2 Protection of stations of the aeronautical radionavigation service against interference from stations of the maritime mobile service

The parameters given in sections 2.2 to 2.8 were applied. It was assumed that a maritime mobile signal (A1A or F1B) has the same interference potential as an aeronautical radiobeacon signal.

3.3 Protection of stations of the maritime mobile service immediately above 435 kHz against interference from stations of the aeronautical radionavigation service immediately below 435 kHz and vice-versa

The criteria given in 3.1 and 3.2 were applied.

4. Technical criteria applied for the reassignment of replacement frequencies for stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz according to Resolution No. 38 of the World Administrative Radio Conference, Geneva, 1979

The criteria given in section 1 and relevant to the bands above 1 606.5 kHz were applied.

5. Technical criteria applied for the protection of frequency assignments to stations of other services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated

In applying the planning program as part of the computer program package for the establishment of the Plan, a frequency was selected for stations of the maritime mobile service on the basis of provisional sharing criteria between the services concerned. In applying in the second stage the incompatibility analysis program as part of the computer program package, the last compatibility analysis vis-à-vis stations of the other services to which these bands are also allocated was carried out on the basis of the Technical Standards of the IFRB. This analysis identified those cases where there was a probability of harmful interference in either direction.

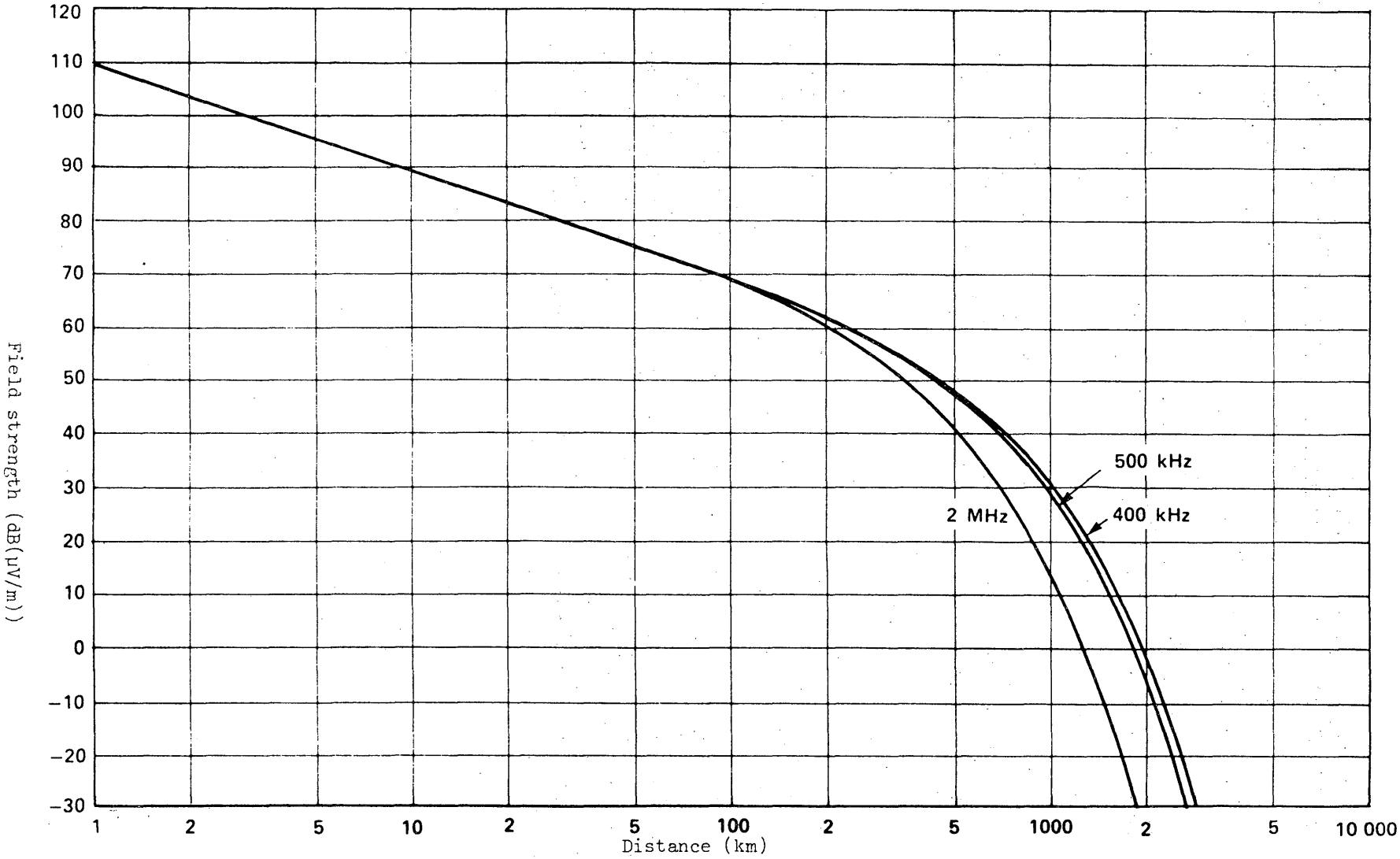


FIGURE 1

Ground-wave propagation - maritime mobile service

(see Part A, section 1.2.1)

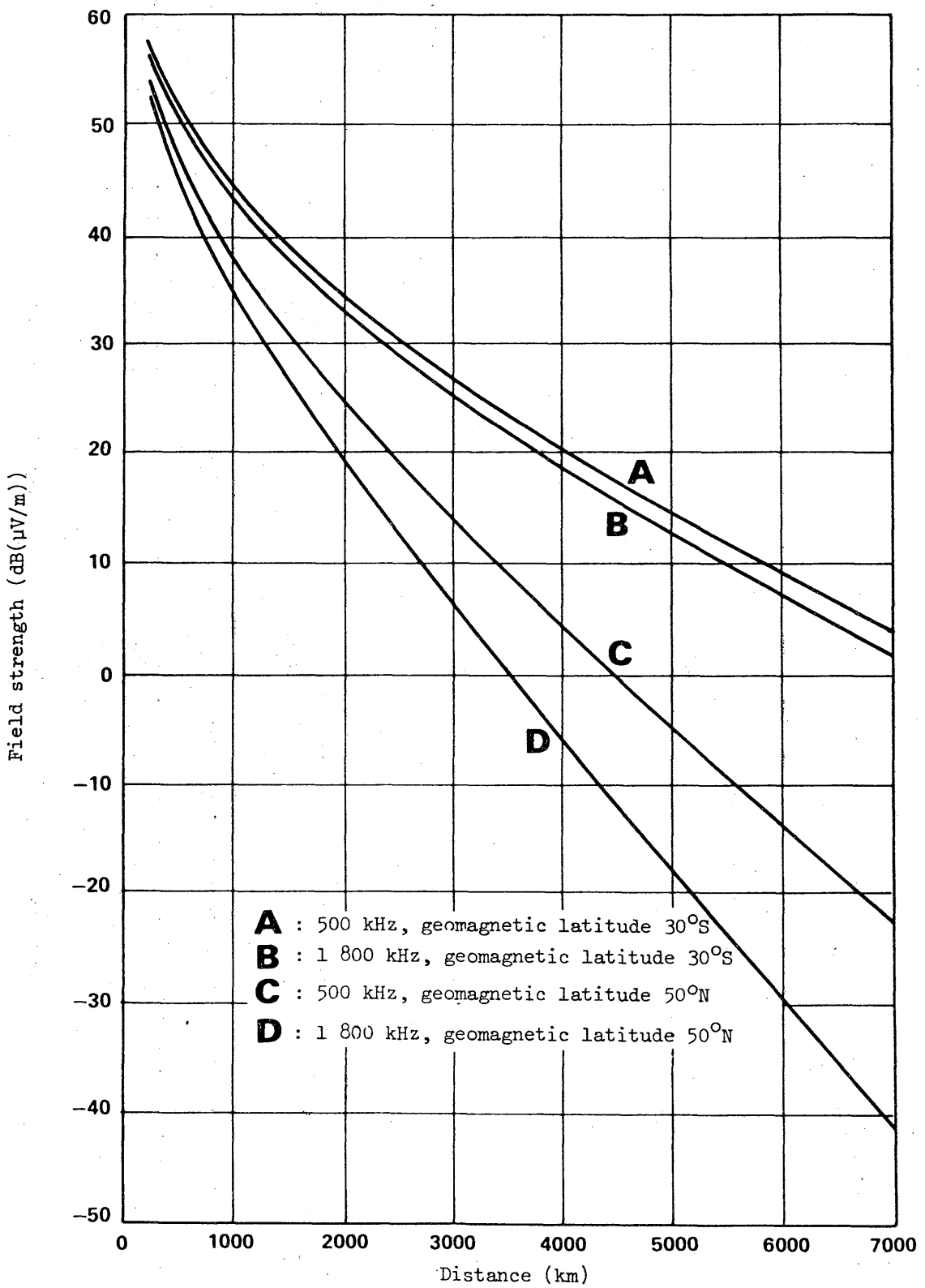


FIGURE 2

Sky-wave propagation - maritime mobile service

(see Part A, section 1.2.2)

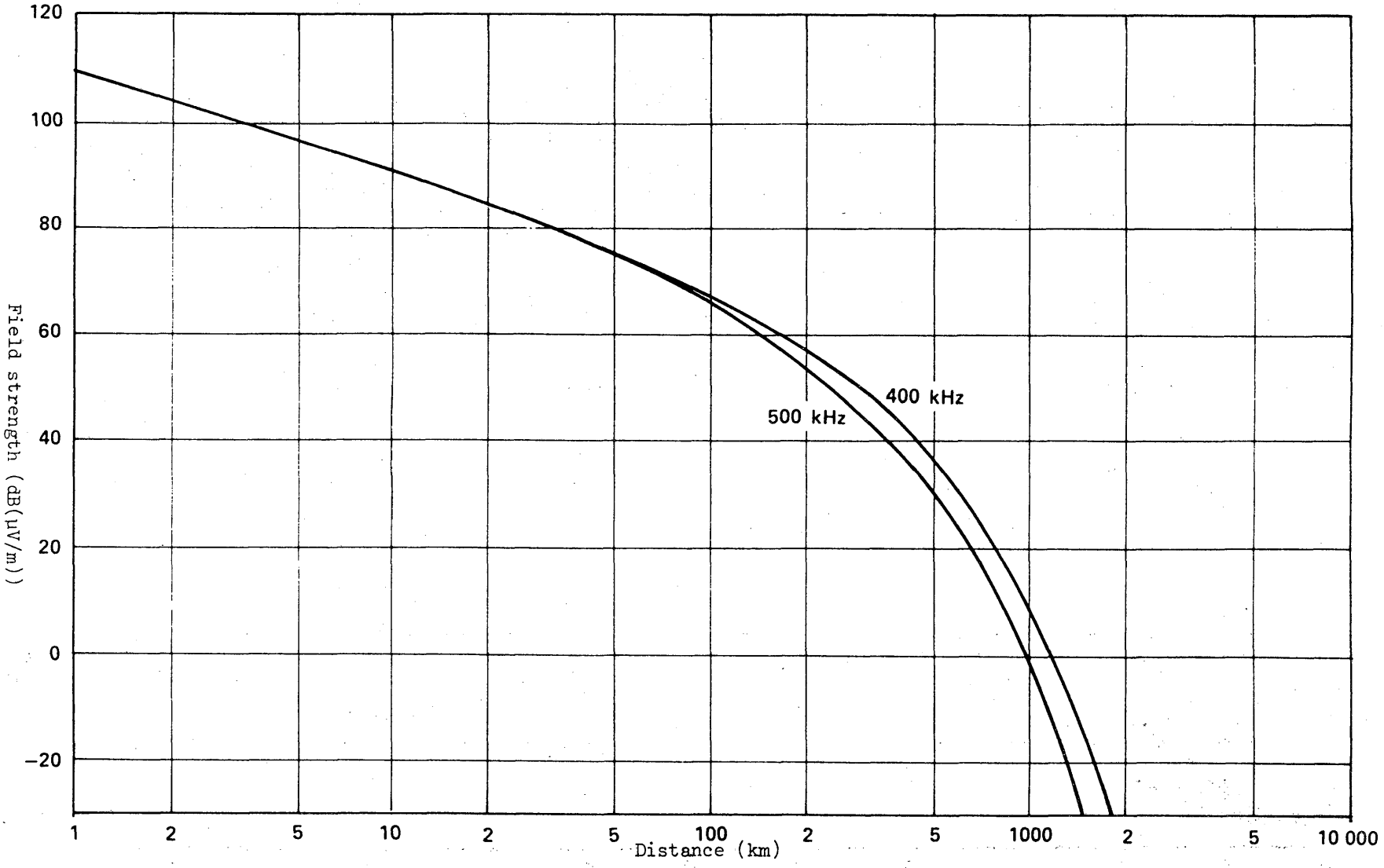


FIGURE 3

Ground-wave propagation - aeronautical radionavigation service

(see Part A, section 2.2)

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PART B

Criteria to be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement

The following criteria shall be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement.

For the purpose of this Part the following definitions are applicable to assignments in conformity with the Agreement:

- the service area of a coast station is the area limited on the one hand by the coast and on the other hand by the coverage range over sea which is recorded in the Plan;

- the service area of a station of the aeronautical radionavigation service is the area around this station limited by the coverage range which is recorded in the Plan.

1. Administrations having an assignment in conformity with the Agreement

1.1 The service rendered by a station for which an assignment is in conformity with the Agreement may be affected by a modification to a Plan when the wanted to unwanted signal ratio at any point of the service area resulting from the proposed modification to a Plan is less than the protection ratio indicated in sections 1.4, 2.4 or 3.1.2 of Part A, as appropriate.

1.2 The wanted to unwanted signal ratio shall be calculated in the same channel and in any of the adjacent channels using the following criteria.

a) Stations of the maritime mobile service interfering with stations of the maritime mobile service:

Part A, sections [1.2] [1.2.1] and 1.3 to 1.7.

b) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:

Part A, sections 1.2.1, 1.7 and 2.3 to 2.7.

The Board, in communicating the list of administrations with which coordination is necessary, shall also indicate in the Special Section, for information only, the wanted to unwanted signal ratio resulting from the use of propagation over land (i.e. the data given in section 2.2 of Part A).

c) Stations of the aeronautical radionavigation service interfering with stations of the aeronautical radionavigation service:

Part A, sections 2.2 to 2.7.

d) Stations of the aeronautical radionavigation service interfering with stations of the maritime mobile service:

Part A, sections [1.2] [1.2.1], 1.3, 1.5, 1.6, 2.7 and 3.1.2.

2. Administrations having an assignment recorded in the Master International Frequency Register for an unplanned primary or permitted service

[2.1 Bands 415 - 435 kHz and 510 - 526.5 kHz

2.1.1 The service rendered by a station for which an assignment is recorded in the Master International Frequency Register may be affected by a modification to the Plan when the wanted to unwanted signal ratio at any point of the service area resulting from the proposed modification to the Plan is less than the protection ratio indicated in sections 2.4 or 3.1.2 of Part A, as appropriate.

2.1.2 The wanted to unwanted signal ratio shall be calculated in the same channel and in any of the adjacent channels using the following criteria.

a) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:

Part A, sections 1.2.1, 1.7 and 2.3 to 2.7.

The Board, in communicating the list of administrations with which coordination is necessary, shall also indicate in the Special Section, for information only, the wanted to unwanted signal ratio resulting from the use of propagation over land (i.e. the data given in section 2.2 of Part A).

b) Stations of the aeronautical radionavigation service interfering with stations of the maritime mobile service:

Part A, sections [1.2] [1.2.1], 1.3, 1.5, 1.6, 2.7 and 3.1.2.]

2.2 Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

The service rendered by a station for which an assignment is recorded in the Master International Frequency Register may be affected by a modification to the Plan when the application of the relevant Technical Standards of the IFRB using ground-wave propagation results in an unfavourable finding.

PART C

Criteria to be used by the IFRB in the examination under No. 1241 of the Radio Regulations of frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz (Article 6 of the Agreement)

When examining frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz under No. 1241 of the Radio Regulations (see Article 6 of the Agreement), the IFRB shall use its relevant Technical Standards on the basis of ground-wave propagation.

RECOMMENDATION No. COM 6/D (MM)

Deletion from the Plans of assignments which are no longer required

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, in accordance with its agenda, the Conference established Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that the Conference established these Plans without taking account of the date by which the assignments included in them will be brought into use;

c) that the Conference did not consider appropriate to fix a period for the validity of the Plans;

d) that during the years following the adoption of the Plans by the Conference, administrations may need to modify their projected uses of the planned bands;

e) that, at the same time, administrations might need additional assignments;

ebis) that the Conference was unable to satisfy all the requirements submitted by administrations and identified those requirements which could not be met;

f) that the Conference adopted Article 6 of the Agreement applicable to frequency assignments to stations of the other services to which the planned bands are also allocated on a primary or permitted basis;

g) that the Conference requested the IFRB periodically to consult administrations as to their intentions with respect to the bringing into use of the assignments in the Plans;

urges administrations

1. to inform the IFRB as soon as possible of any assignment which they no longer require with a view to its deletion from the Plan concerned;

2. to review their assignments in the Plans when they are consulted by the IFRB in accordance with paragraph 30bis of the Agreement and to request it to cancel from the Plan concerned those assignments which they no longer require.

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 128-E
11 March 1985
Original: English

COMMITTEE 7

FOURTH SERIES OF TEXTS SUBMITTED BY COMMITTEE 6 TO THE EDITORIAL COMMITTEE

The text of the Annex hereto was adopted by Committe 6 and is submitted to the Editorial Committee.

S. CHALLO
Chairman of Committee 6

Annex: 1

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX

DRAFT RESOLUTION COM6/4 (MM)

relating to compatibility between assignments appearing in the Plan for the maritime mobile service in the bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2045 - 2160 kHz and assignments in the fixed and land mobile services recorded in the Master Register *)

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that Article 8 of the Radio Regulations allocated in Region 1 the frequency bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2045 - 2160 kHz to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis (primary in countries listed in RR483);

b) that the Conference established a Plan for the maritime mobile service in the bands 1606.5 - 1625 kHz, 1635 - 1800 kHz and 2045 - 2160 kHz;

c) that the Conference was unable to evaluate the incompatibilities between frequency assignments to the maritime mobile service entered in the Plan and those of the primary services recorded in the Master Register;

d) that the Conference was unable to assign alternative frequencies to the assignments to stations of permitted services after having selected the frequencies for the maritime mobile service as indicated in the provisions of RR419;

e) that in accordance with RR419, the primary and permitted services have equal rights except during the period of preparation of a Plan for the primary service;

f) that the evaluation of compatibility between assignments to the maritime mobile service in the Plan and the other services can be made only after the Conference;

g) that this evaluation may indicate the probability of harmful interference between assignments appearing in the Plan and other assignments presently recorded in the Master Register for the fixed and land mobile services;

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*) This draft Resolution was prepared on the understanding that all assignments to coast stations in the planned bands which are presently in use have a corresponding assignment in the Plan.

h) that in such cases alternative frequencies should be found to the interfering or interfered assignments;

i) that the planned bands are already congested and that alternative frequencies will have to be found generally in other bands;

j) that in general it is easier for the stations of the fixed and land mobile services to make modifications to their characteristics;

resolves

1. that, within 90 days of the end of the present Conference, the IFRB shall send to each Administration the list of assignments to its stations of the fixed and land mobile services recorded in the Master Register in the band concerned, requesting them to review these assignments with a view to cancelling those assignments which are no longer in use;

2. that administrations shall, within a period of 90 days following the receipt of the list referred to above, return the copy of the list indicating those assignments to be deleted from the Master Register as well as any modification to other assignments, which may assist in resolving any apparent incompatibility with the Plan;

3. that, having received information requested under Resolution COM6/2 indicating the relation between assignments in the maritime mobile service recorded in the Master Register and those appearing in the Plan as well as the information resulting from the application of paragraphs 1 and 2 above, the IFRB shall carry out compatibility analyses between the assignments appearing in the Plan and those of the fixed and land mobile services which are recorded in the Master Register in the same band, using the IFRB Technical Standards on the basis of ground-wave propagation;

4. that the IFRB shall send to each administration concerned the list of incompatibilities that may exist between the assignments in the Plan and the assignments in the fixed and land mobile services;

5. that, when an administration finds that the level of interference caused to its fixed or land mobile station from an assignment to a station of the maritime mobile service appearing in the Plan is acceptable to it, it shall so inform the IFRB and the corresponding assignment is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

6. that, when an administration finds that the level of interference caused to its maritime mobile station for which an assignment appears in the Plan is acceptable to it, it shall so inform the IFRB and the fixed or land mobile assignment at the origin of interference is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

7. that, when an assignment to a fixed or land mobile service with a date in Column 2b is identified as capable of causing harmful interference to an assignment appearing in the Plan, the administration shall take appropriate measures to change the frequency or modify the characteristics in order to eliminate the probability of harmful interference;

8. that, when there exists an incompatibility between an assignment in the Plan and an assignment of the fixed or land mobile service with a 2a date, administrations concerned should make every effort in order to eliminate the incompatibility by modifying the characteristics of the assignment concerned and if this is not possible by selecting an alternative frequency either in the planned bands or in the case of fixed and land mobile services preferably in other bands;

9. that 120 days before the date of entry into force of the Agreement, the IFRB shall request those administrations concerned with an unresolved incompatibility to find a solution to the problem. If 90 days before the entry into force of the Agreement, the Board is not informed of the resolution of such incompatibility, it shall select an alternative frequency to the assignment having the most recent 2a date and inform the administrations concerned;

10. that an administration, for which an acceptable alternative frequency was selected in accordance with paragraph 9 above, shall modify the characteristics of its assignment in order to operate at this new frequency as soon as possible and, in any case, before the bringing into use of the assignment in the Plan with which it is incompatible;

11. that administrations may request the assistance of the Board at any stage of these proceedings;

12. that when an alternative frequency is selected and is compatible with the Plan and receives a favourable finding with respect to assignments recorded in the Master Register, the assignment will keep its original 2a date when recorded in the Master Register;

urges administrations

1. having assignments to the fixed and land mobile services which are incompatible with an assignment in the Plan to take all necessary measures to eliminate the incompatibility bearing in mind that, in general, the fixed and land mobile services have more flexibility to modify their characteristics, including the frequency;

2. having assignments in the Plan which are incompatible with stations of the fixed and land mobile services to modify the characteristics of their assignments appearing in the Plan in order to eliminate incompatibility;

3. to cooperate to the maximum extent possible with a view to achieving the objectives of this Resolution.

requests the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 129-E
11 March 1985
Original: English

PLENARY MEETING

THIRD AND LAST REPORT OF COMMITTEE 6 TO THE PLENARY MEETING

During its last meeting on 11 March 1985, Committee 6 decided to refer to the Plenary the decision to be taken with respect to the date of entry into force of the Agreement.

The two following extreme positions have been indicated: 1987 as the earlier date mentioned and 1993 as the latest date. A compromise has been suggested with the year 1990.

It was also mentioned that for practical and operational reasons, the final date should correspond to the Spring period in Europe (April or May).

S. CHALLO
Chairman of Committee 6

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 130-E
11 March 1985
Original: English

COMMITTEE 7

NOTE FROM THE CHAIRMAN OF COMMITTEE 6

TO THE EDITORIAL COMMITTEE

As instructed by the Plenary Meeting on Monday, 11 March 1985, when considering Document 105 (B.1), Committee 6 re-examined Articles 2 and 13 of the draft Agreement.

When considering Article 2 in connection with the question of the use of the bands 490 - 495 kHz and 505 - 510 kHz, Committee 6 agreed that this problem was to be covered by adding a sentence in Article 14 and not in Article 2. It also decided that a paragraph should be added under considering and under decides of Resolution No. COM 6/1. A note is also to be added in the table appearing in the annex to Recommendation No. COM 6/A. The Committee also adopted a revised text for Article 13.

The revised and new texts adopted appear in the annex hereto.

S. CHALLO
Chairman of Committee 6

Annex: 1

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ANNEX

1. Revised text of Article 13

ARTICLE 13

Abrogation and Replacement of the Copenhagen Convention, 1948 and the Copenhagen Plan Annexed Thereto

[ ] The present Agreement and the Plan annexed hereto are considered to be the appropriate instruments to abrogate the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948 and the Plan annexed thereto, which both, in accordance with the provisions of Article 7 of that Convention, shall be abrogated as from the entry into force of the present Agreement and the Plans annexed hereto and replaced by the latter.

2. Revised text of Article 14

ARTICLE 14

Effective Date of this Agreement

[ ] This Agreement shall enter into force on [ ] at 0001 hours UTC except for the bands 490 - 495 kHz and 505 - 510 kHz to which the Agreement shall be applied as from the date to be adopted by a competent administrative radio conference in accordance with No. 471 of the Radio Regulations and Resolution No. 206 (MOB-83) of the World Administrative Radio Conference for Mobile Services, Geneva, 1983.

3. Note to be added to Take of annex to Recommendation No. COM 6/A and in Annex [ ] to the Agreement against the frequencies in the bands 490 - 495 kHz and 505 - 510 kHz

Note - This frequency shall not be used until the date to be decided by the Conference mentioned in Article 14 of the Agreement.

4. Paragraphs to be added to Resolution No. COM 6/1

- Under considering add the following paragraph e):

e) that in accordance with No. 471 of the Radio Regulations and Resolution No. 206 (MOB-83) of the World Administrative Radio Conference for Mobile Services, Geneva, 1983, the next competent world administrative radio conference should decide on the date of entry into force of the definitive guardband from 495 kHz to 505 kHz and that, in accordance with No. 3018 of the Radio Regulations, all transmissions in the frequencies included between 490 kHz and 510 kHz are forbidden;

- Under resolves add the following paragraph 4:

4. that the provisions of this Resolution do not apply to the band 490 - 495 kHz and 505 - 510 kHz.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 131-E
11 March 1985
Original: English

Source: Document 116

COMMITTEE 7

SECOND AND LAST SERIES OF TEXTS FROM COMMITTEE 5
TO THE EDITORIAL COMMITTEE

The attached texts in Annexes 1 to 3, adopted by Committee 5, are hereby submitted to the Editorial Committee.

T. BØE
Chairman of Committee 5

Annexes: 3

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX 1

RECOMMENDATION No. COM 5/B (MM)

Relating to the frequency pairs in the bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz to be used for digital selective calling for national and international purposes

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference for the Mobile Services, Geneva, 1983, could not prepare frequency assignment plans for the bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz and resolved in Resolution No. 704 (MOB-83) that a Regional Administrative Radio Conference for Region 1 be convened to prepare frequency assignment plans;

b) that this Conference designated frequency pairs in the MF band to be used for digital selective calling for national and international purposes in the band 435 - 526.5 kHz and for national purposes only in the band 1 606.5 - 2 160 kHz (Resolution No. COM 5/1);

c) that the use of frequency pairs for digital selective calling for international use is also of interest for Regions 2 and 3;

recognizing

a) that this Conference could not designate a frequency pair for digital selective calling for international use in the band 1 606.5 - 2 160 kHz;

b) that this Conference could designate frequency pairs for digital selective calling in the band 435 - 526.5 kHz with a seperation of only 3 kHz between coast station and ship station frequencies;

recommends

that the World Administrative Radio Conference for the Mobile Services, planned in 1987, should consider

1. designating for international use in Regions 2 and 3, the frequency pair for digital selective calling in the band 435 - 526.5 kHz designated by this Conference for international use in Region 1;

2. designating a frequency pair for digital selective calling in the band 1 606.5 - 2 850 kHz for world-wide international use;

3. making provisions in the Radio Regulations for the frequency pairs of digital selective calling for national purposes on a world-wide basis;

invites the Administrative Council

to include in the agenda of the WARC for the Mobile Services, planned in 1987, provisions to ensure that the Conference will be competent to review parts of Article 62 of the Radio Regulations so as to cover paragraphs 1 to 3 of "recommends" above;

invites the CCIR

1. to study the technical problems that may arise from the 3 kHz duplex separation in the digital selective calling channels in the band 435 - 526.5 kHz;

2. to review the appropriate CCIR Recommendations.

ANNEX 2

RESOLUTION No. COM 5/1 (MM)

Relating to the use of calling channels for the digital selective calling system in the bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, according to Article 62 of the Radio Regulations, a digital selective calling system may be used if it is in full conformity with the relevant CCIR Recommendations;

b) that the CCIR has provided the necessary Recommendations;

c) that the effectiveness of the digital selective calling system requires agreement between administrations with respect to the use of national calling channels which have been provided by this Conference;

d) that the administrations at this Conference agreed to an Allotment Plan (annexed to this Resolution) for the national channels;

invites

administrations which are providing an international public correspondence service to indicate for publication in the list of coast stations the periods of service during which an automatic watch will be maintained on the international and national calling channels;

invites further

administrations which wish to enter into a group in the Allotment Plan, or administrations included in the Plan wishing to make a modification in the Plan, to coordinate as far as possible their proposed changes with other interested and affected administrations which are designated in the group concerned. An administration which has decided to enter into a group or change from a designated group in the Allotment Plan shall inform the Secretary-General of its decision and it shall be published in the Annex to the List of Coast Stations. Administrations shall also notify to the IFRB, in accordance with Article 5 of the Agreement, the use of the frequencies contained in the annexes of this Resolution which are not covered by the provisions of RR 1220;

instructs the Secretary-General

1. to circulate this Resolution to all administrations which are responsible for coast stations in countries or areas designated in the Allotment Plan in order to obtain their agreement to the Plan or an adjustment of the Plan to meet their needs;

2. in the light of the foregoing consultation with the admnistrations concerned to update the Allotment Plan which is annexed to the List of Coast Stations;

3. that, in advance of the publication of any revision of the Allotment Plan in the List of Coast Stations, any variation in the Plan should be notified through the Operational Bulletin.

ANNEX 1 TO RESOLUTION No. COM 5/1 (MM)

Allotment Plan for national calling channels in the digital selective calling system in the Band 435 - 526.5 kHz by countries and areas

Group 1, Channel No. 112 coast station transmitting frequency 456.0 kHz ship station transmitting frequency 459.0 kHz	
AZORES	MOROCCO (MEDITERRANEAN)
BELGIUM	MAURITANIA
BENIN	NIGERIA
COMORES	NORWAY
CAPE VERDE	OMAN
EGYPT	PORTUGAL
FRANCE	QATAR
FINLAND	REUNION
GIBRALTAR	ST. HELENA
GAMBIA	SWEDEN (BALTIC)
GREECE	SUDAN
ICELAND	SENEGAL
JORDAN	SYRIA
KUWAIT	TUNISIA
LEBANON	UNITED ARAB EMIRATES
MAURITIUS	YEMEN A.R.
MONACO	YEMEN (P.D.R. OF)
MADAGASCAR	YUGOSLAVIA
MADEIRA	ZAIRE
I. MARION	

Group 2, Channel No. 113 coast station transmitting frequency 456.5 kHz ship station transmitting frequency 459.5 kHz	
SOUTH AFRICA (REP.)	EQUATORIAL GUINEA
BAHRAIN	GUINEA
BYELORUSSIA	NETHERLANDS
BULGARIA	ITALY
CONGO	ISRAEL
CYPRUS	MALTA
FEDERAL REPUBLIC OF GERMANY (NORTH SEA)	MONGOLIA
DJIBOUTI	SWEDEN (NORTH SEA)
DENMARK	SEYCHELLES
SPAIN (CANARY ISLANDS INCLUDED)	SOMALIA
ETHIOPIA	SIERRA LEONE
GABON	SAO TOME AND PRINCIPE
GUINEA-BISSAU	TOGO
	UKRAINE
	USSR

Group 3, Channel No. 114 coast station transmitting frequency 457.0 kHz ship station transmitting frequency 460.0 kHz	
ANGOLA	IRELAND
ALBANIA	IRAQ
ALGERIA	KENYA
SAUDI ARABIA	LIBERIA
CAMEROON	LIBYA
ARCHIPELAGO CROZET	MOZAMBIQUE
IVORY COAST	MOROCCO (ATLANTIC)
FEDERAL REPUBLIC OF GERMANY (BALTIC)	NAMIBIA
GERMAN DEMOCRATIC REPUBLIC	POLAND
UNITED KINGDOM	ROMANIA
GHANA	CHAD
	TURKEY
	TANZANIA
	USSR

ANNEX 2 TO RESOLUTION No. COM 5/1

Allotment Plan for national calling channels in the digital selective calling system in the band 1 606.5 - 2 160 kHz by countries and areas

Group 1, Channel No. 229 coast station transmitting frequency 1 621 kHz ship station transmitting frequency 2 156 kHz	
BULGARIA	ICELAND
CAPE VERDE	JORDAN
IVORY COAST	KUWAIT
VATICAN	MOROCCO
UNITED KINGDOM (IRISH SEA)	NORWAY (N.65N.)
GABON	TANZANIA
ITALY (WEST)	UKRAINE
	YEMEN ARAB REPUBLIC

Group 2, Channel No. 230 coast station transmitting frequency 1 621.5 kHz ship station transmitting frequency 2 156.5 kHz	
CAMEROON	ISRAEL
CANARIES	LIBERIA
COMORES	MAURITIUS
ETHIOPIA	NORWAY (S.65N.)
UNITED KINGCOM (CHANNEL)	REUNION
ITALY (EAST)	ROMANIA
	SEYCHELLES (REPUBLIC OF)

Group 3, Channel No. 231 coast station transmitting frequency 1 622 kHz ship station transmitting frequency 2 157 kHz	
ALGERIA	KENYA
BYELORUSSIA	NORWAY (S.65N.)
FRANCE (CHANNEL)	SYRIA
GHANA	UNITED ARAB EMIRATES
GREECE	USSR

Group 4, Channel No. 232 coast station transmitting frequency 1 622.5 kHz ship station transmitting frequency 2 157.5 kHz	
SAUDI ARABIA	IRELAND
FEDERAL REPUBLIC OF GERMANY	LIBYA
FRANCE (MEDITERRANEAN)	MOZAMBIQUE
FINLAND	MAURITANIA
EQUATORIAL GUINEA	SIERRA LEONE
	TURKEY

Group 5, Channel No. 233 coast station transmitting frequency 1 623 kHz ship station transmitting frequency 2 158 kHz	
ASCENSION	MALTA
DJIBOUTI	NAMIBIA
UNITED KINGDOM (NORTH SEA)	OMAN
	SWEDEN
GIBRALTAR	ST. HELENA
GAMBIA	SAO TOME AND PRINCIPE

Group 6, Channel No. 234 coast station transmitting frequency 1 623.5 kHz ship station transmitting frequency 2 158.5 kHz	
ANGOLA	NETHERLANDS
ALBANIA	MONACO
BAHRAIN	NIGERIA
SPAIN (ATLANTIC)	POLAND
EGYPT	YEMEN (PEOPLE'S DEMO-
GUINEA	CRATIC REPUBLIC OF)

Group 7, Channel No. 235 coast station transmitting frequency 1 624 kHz ship station transmitting frequency 2 159 kHz	
BELGIUM	IRAQ
BENIN	MADAGASCAR
CYPRUS	SUDAN
GERMAN DEMOCRATIC REPUBLIC	SENEGAL
SPAIN (MEDITERRANEAN)	TRISTAN DA CUNHA
GREECE	USSR
	ZAIRE

Group 8, Channel No. 236 coast station transmitting frequency 1 624.5 kHz ship station transmitting frequency 2 159.5 kHz	
SOUTH AFRICA	PORTUGAL
AZORES	QATAR
CONGO	SOMALIA
DENMARK	TOGO
FRANCE (ATLANTIC)	TUNISIA
GUINEA-BISSAU	USSR
LEBANON	YUGOSLAVIA
MADEIRA	

ANNEX 3

DRAFT RECOMMENDATION No. COM 5/A (MM)

Relating to the replacement of the world-wide maritime mobile working frequency 425 kHz for ship stations

The Regional Administrative Radio Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference, Geneva, 1979 allocated the frequency band 415 - 435 kHz in Region 1 to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) that the World Administrative Radio Conference for the Mobile Services, Geneva, 1983 resolved that a Regional Administrative Radio Conference for Region 1 should be convened in 1985 to prepare frequency assignment plans for the aeronautical radionavigation service in the frequency bands 415 - 435 kHz and 505 - 526.5 kHz, and for the maritime mobile service in the frequency bands 415 - 435 kHz and 435 - 526.5 kHz;

further considering

c) that this Conference has established a frequency assignment plan for aeronautical radiobeacon stations in the band 415 - 435 kHz in Region 1;

d) that the possibilities for the maritime mobile service for using frequencies from this band are limited;

e) that this Conference decided that in the maritime mobile service only coast stations should be allowed to use frequencies from this band;

f) that it would not be practicable if the frequency 425 kHz was allowed to continue on a world-wide basis as a ship working frequency for radiotelegraphy in accordance with the permitted allocation to the maritime mobile service in this band and with No. 4237 of the Radio Regulations;

g) that this Conference decided that the frequency 458 kHz would be a suitable replacement for the frequency 425 kHz in order to avoid problems with the implementation of the Plan for the aeronautical radiobeacon stations;

h) that harmful interference in the reception of the aeronautical radiobeacon stations may have serious implications for the safety of life;

i) that the revision of No. 4237 was not within the agenda for this Conference;

recommends

that the Conference for the mobile services planned for 1987 should be authorized to review and revise No. 4237 of the Radio Regulations with a view to replacing the frequency 425 kHz by the frequency 458 kHz as a world-wide ship station working frequency in all Regions, from the date of entry into force of the Plan for aeronautical radiobeacons in the band 415 - 435 kHz (viz ...);

invites

the Administrative Council to ensure that the Conference for the mobile services planned for 1987 will be competent to review and revise No 4237 of the Radio Regulations;

requests

the Secretary-General to bring this Recommendation to the attention of all administrations.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 132-E
12 March 1985
Original: English

PLENARY MEETING

SECOND REPORT BY THE CHAIRMAN OF COMMITTEE 5 TO THE PLENARY

The first and second series of texts adopted by Committee 5 have been forwarded to the Editorial Committee (see Document 111 and Corrigenda 1 and 2 thereto as well as Document 131).

These texts will be submitted to the Plenary by the Editorial Committee.

T. BØE
Chairman of Committee 5

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 133-E
15 March 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

THIRD PLENARY MEETING

Monday, 11 March 1985, at 0910 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:		Document
1.	Report of Committee 2	110
2.	First series of texts submitted by the Editorial Committee for first reading (B.1 and Corr.1)	105 and Corr.1
3.	Approval of the minutes of the second Plenary Meeting	81

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1. Report of Committee 2 (Document 110)

1.1 The Chairman of Committee 2 presented his Committee's report in Document 110.

On a proposal by the delegate of Finland, it was agreed that the Chairman and members of the Working Group of Committee 2 be authorized to verify the creditials received after the date of the Report in Document 110 and to report to the Plenary Meeting on the matter.

The Report of Committee 2 (Document 110) was adopted.

2. First series of texts submitted by the Editorial Committee for first reading (B.1 and Corr.1) (Document 105 and Corr.1)

2.1 Article 2

2.1.1 The Chairman of the Editorial Committee explained that there were square brackets in Article 2 b) because the Editorial Committee had considered that the band from 435 to 526.5 kHz should be divided into two sub-bands.

2.1.2 The delegate of the Netherlands said that although the text in Article 2 b) in line with the Radio Regulations, for the purposes of the Agreement, services had been dealt with in somewhat different bands. He proposed that the text in square brackets should read:

"435 - 490 and 510 - 526.5 kHz".

If that was approved by the Conference, consequential amendments would need to be made, for example to Article 2 c).

2.1.3 The delegate of Sweden and the Chairman of Committee 6 supported the Netherlands proposal.

2.1.4 Following a point made by the Chairman of the IFRB, the delegate of the Federal Republic of Germany, supported by the delegates of Italy and France, proposed the addition to Article 2 of a note reading:

"The establishment of the Plan was restricted to the bands 435 - 490 kHz and 510 - 526.5 kHz. However, the modification procedure according to Article 4 shall apply to the bands 435 - 495 kHz and 505 - 526.5 kHz subject to the provisions of Radio Regulation 471 and Resolution No. 206 (MOB-83."

2.1.5 The Secretary-General pointed out that the reference should be to Article 4 "of this Agreement".

2.1.6 The Chairman of Committee 5 said that if the proposal just made was adopted, Committee 5 would be prepared to correct the channelling arrangement accordingly.

2.1.7 The delegate of the Netherlands said that he could accept the first part of the proposal but the second part, concerning the immediate application of the modification procedure, appeared to run counter to the decision which had been taken that the bands in question should not be taken into account in the planning process.

2.1.8 The Chairman of Committee 6 endorsed that view and proposed that the whole of Article 2 be placed in square brackets until the point had been considered further by Committee 6.

It was so agreed.

2.2 Article 3

2.2.1 The representative of the IFRB said that the references to various Annexes in provisions 3 and 4 of Article 3 suggested that the Plans for the aeronautical radionavigation service and the maritime mobile service in the 400 and 500 kHz bands were independent of each other. Since some of the bands in those bands were used by both services, he would have preferred the official Plan annexed to the Agreement to contain all assignments to both the aeronautical radionavigation service and the maritime mobile service, subject to the possibility of publishing the Plan for each service in a separate document. If the Plenary wished to keep the Plans separate, as in provisions 3 and 4, it would be necessary to draft a provision indicating that the aeronautical radionavigation service Plan and the maritime mobile service Plan in the same band were considered to be compatible with each other.

2.2.2 The Chairman of Committee 5 and the Chairman of Committee 6 said that it had been the understanding in their Committees that the Plans for the aeronautical radionavigation service and the maritime mobile service in the same bands would be compatible.

It was agreed that it might be necessary to insert an additional provision in Article 3 and that further consideration of the Article should be deferred until the Plans themselves were available.

2.3 Article 13 (B.1(Corr.1))

2.3.1 The Legal Adviser drew attention to a discrepancy between the French and English texts of Article 13. He did not consider it correct, as in the English text, to refer to "contracting members" since one of the Parties to the Copenhagen Agreement - Iceland - was not present at the Conference.

2.3.2 The Secretary-General endorsed the view that the English text should be aligned on the French text.

After a brief discussion, it was agreed that a final decision on the question should be deferred until Article 13 had been reconsidered by Committee 6.

2.4 Article 14

2.4.1 The Chairman of Committee 6 said that a decision on the date of entry into force of the Agreement still remained to be taken by Committee 6.

2.4.2 The representative of the IFRB proposed that the whole text of Article 14 should be placed in square brackets since the decision taken on Article 2 might lead to amendments to Article 14.

It was so agreed.

2.5 Recommendation No. COM 6/A (MM)

2.5.1 On a proposal by the delegate of Sweden, slightly amended by the representative of the IFRB, and supported by the delegates of Norway and the Netherlands, it was agreed that the title should read:

"...in the frequency bands between 415 and 526.5 kHz
in Region 1".

It was further agreed that the words in square brackets in considerings a) and d) and in recommends should be amended in line with the decision just taken on the title and the square brackets should be deleted; that the square brackets and the words "this band" in considering b) should be deleted leaving the words "these bands"; and that the square brackets in considering c) should be deleted leaving the word "bands".

On a proposal by the Chairman of the IFRB, it was agreed that the words "Table of Frequencies" in recommends should be replaced by the words "channelling arrangement".

2.5.2 The Chairman of Committee 5 confirmed that the channelling arrangement for the Annex to Recommendation No. COM 6/A (MM) had been developed by Committee 5 and sent to the Editorial Committee.

2.6 Recommendation No. COM 6/B (MM)

It was agreed to delete the square brackets in the title of Recommendation No. COM 6/B (MM), in considering a) and considering d) and in recommends.

2.6.1 On a proposal by the delegate of the United Kingdom, supported by the Chairman of Committee 6 and the delegates of Sweden and Spain, it was agreed that the title of the Recommendation should read:

"Channelling arrangement for radiotelegraphy in the
maritime mobile service in the frequency bands...".

It was agreed that the same editorial correction should be made as in the previous Recommendation by replacing the words "Table of Frequencies" in recommends by the words "channelling arrangement".

The Annex to Recommendation No. COM 6/B (MM) was referred to Committee 5 for development.

2.7 Recommendation No. COM 6/C (MM)

It was agreed, on a proposal by the United Kingdom delegate, that the title of the Recommendation should read:

"Channelling arrangement for radiotelephony in the
maritime mobile service....".

It was further agreed that the square brackets in the title and throughout the Recommendation should be deleted.

2.7.1 The delegate of Spain said he believed, on the basis of Appendix 2 of Resolution No. 704, that the frequency 2 145.5 kHz should be changed to 2 141 kHz.

2.7.2 The delegate of Sweden, supported by the delegates of France, Italy and Portugal, said that the delegate of Spain was correct but the point was not of major importance and since the figure of 2 145.5 kHz had already been accepted in Recommendation No. COM 6/B (MM) it was preferable, for the sake of consistency, to retain it in Recommendation No. COM 6/C (MM).

It was so agreed.

It was agreed to replace the words "Table of Frequencies" by the words "channelling arrangement" in recommends.

It was agreed to delete the square brackets in the title of the Annex to Recommendation No. COM 6/C (MM) and to retain the figure 2 141.5 kHz as had been decided for the Recommendation.

Subject to the foregoing decisions, the first series of texts submitted by the Editorial Committee (B.1 and Corr.1) (Document 105 and Corr.1) was approved at first reading.

3. Approval of the minutes of the second Plenary Meeting (Document 81)

The minutes of the second Plenary meeting (Document 81) was approved.

The meeting rose at 1050 hours.

The Chairman: T. HAHKIO

The Secretary: R.E. BUTLER

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 134-E
14 March 1985
Original: English

COMMITTEE 5

SUMMARY RECORD

OF THE

SEVENTH MEETING OF COMMITTEE 5

Friday, 8 March 1985, at 1430 hrs

Chairman: Mr. T. BØE (Norway)

Subjects discussed:		Documents
1.	Report of Chairman of ad hoc Group 3	99
2.	Report of Chairman of ad hoc Group 4	92, 103(Rev.1)
3.	Channelling arrangements	DT/16(Rev.1)
4.	Information to be included in the Plans	87
5.	Notes by the Secretary-General	27, 64
6.	Modification of some provisions of the Radio Regulations	16
7.	Reports of Chairmen of Planning Groups 5A and 5B	75
8.	Replacement frequencies under Resolution No. 38	-
9.	Notes by Chairman of Committee 4	60, 61, 62
10.	Additional planning criteria for offset frequency protection ratio for aeronautical beacons	88
11.	Note by Chairman of Committee 3	58(Rev.1)

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Report of the Chairman of ad hoc Group 3 (Document 99)

1.1 The Chairman of ad hoc Group 3 introduced the results of the Group's discussions on the provision of digital selective calling channels in the 500 kHz and 2 MHz bands (Document 99). He said that because difficulties might result from the small spacing between the proposed duplex frequency pairs in the 500 kHz band, the CCIR should be invited to study the possible technical problems and change its relevant Recommendations if necessary. In addition, the WARC for the mobile services planned for 1987 should be requested to designate one channel for international calls in the DSC system in the 2 MHz band.

The proposed grouping of coast stations set out in the two Annexes to his report raised the question of where to incorporate it in the Plan and the problem of establishing a procedure for future modifications. In addition, a number of delegations had indicated a wish for changes to the proposals, which the Group would continue to consider.

1.2 The Chairman proposed that the report be considered paragraph by paragraph.

1.3 The delegate of France, commenting on paragraph 1, said that the separation between the proposed pairs of coast and ship stations transmit frequencies was insufficient and that his country would have difficulty in using the frequencies themselves because they would interfere with radio broadcasting.

1.4 The Chairman said that the proposals were based on Committee decisions which had to be maintained. It was because the separation was recognized to be small that the CCIR was being asked to study the potential difficulties. It would only be possible to take note of the French objection.

1.5 The delegate of the USSR suggested in connection with paragraph 3 that the CCIR might also be invited to study the feasibility of operating on paired frequencies with such a small separation.

1.6 The representative of the IFRB suggested that the second invitation to the CCIR should simply be to review the appropriate CCIR Recommendation.

It was so agreed.

1.7 The Chairman proposed that the request to WARC MOB-87 recommended by ad hoc Group 3 in paragraph 3 should be drafted by that Group.

It was so agreed.

1.8 The proposed distribution plan of coast stations arranged by countries and areas into three groups in the 455.5 - 460 kHz band and into eight groups in the 1 621 - 1 625 kHz band (paragraph 4) was provisionally approved, subject to revision of the distribution given in Annexes 1 and 2.

1.9 Referring to paragraph 5, the Chairman questioned if it was necessary to establish a procedure to be used by administrations for effecting modifications to the distribution plan.

1.10 The Chairman of ad hoc Group 3, supported by the delegates of the Federal Republic of Germany and Algeria, said that a procedure similar to that provided by Resolution No. 312 of the Radio Regulations should be laid down to avoid any ambiguity when requirements arose to modify the distribution plan finally agreed.

It was agreed that ad hoc Group 3 should prepare a draft Resolution containing the proposed procedure and revised versions of Annexes 1 and 2.

1.11 The Chairman said that it would be for the Editorial Committee to decide the place of the Resolution concerning the distribution plan in the final Agreement and associated plans (paragraph 6).

1.12 The delegates of Albania, Algeria, Libya, Oman, Togo and the USSR raised objections to the provisional distribution plan set out in Annexes 1 and 2.

1.13 The Chairman said that all such objections should be taken up with ad hoc Group 3.

1.14 The delegate of Algeria reserved his right to revert to the question of the status of the entries in the Annexes, in particular that of Gibraltar, in the Plenary Meeting.

The Committee took note of the report of ad hoc Group 3, and of the Algerian reservation.

2. Report of the Chairman of ad hoc Group 4 (Documents 92 and 103(Rev.1))

2.1 The Chairman of ad hoc Group 4 introduced Document 92, which contained the text proposed by the Group for a Recommendation relating to the replacement of the world-wide maritime mobile working frequency 425 kHz for ship stations. The square brackets in paragraphs further considering g), resolves 1 and recommends represented the space left for insertion of the proposed replacement frequency. A final decision on that frequency had had to be left pending while awaiting the outcome of Committee 5's consideration of the work of ad hoc Group 3 (Document 99) and its final decision on the channelling arrangements for the band 415 - 526.5 kHz (Document DT/16(Rev.1)); however, there had been considerable support in the Group for a replacement frequency of 458 kHz.

Resolves 1 still remained to be completed by the date of entry into force of the Plan, when that should be decided by the Conference.

2.2 The delegate of Greece said that he had expressed a reservation in the ad hoc Group as to the acceptability from the legal standpoint of the text of paragraph resolves 1. An alternative text was proposed in Document 103(Rev.1). However, if ad hoc Group 4 were to have a further meeting, he was sure that a compromise text acceptable to all parties could be prepared.

2.3 The delegate of France said he also had a point of difference with the text that he would be prepared to take up in a further meeting of ad hoc Group 4.

It was decided that ad hoc Group 4 should meet again to prepare a final version of draft Recommendation No. COM 5/A for submission to Committee 5. That text would include the replacement frequency to be decided by Committee 5 in the course of its discussion of Document DT/16(Rev.1).

3. Channelling arrangements (Document DT/16(Rev.1))

3.1 The Chairman introduced Document DT/16(Rev.1), which contained the proposed channelling arrangements to be annexed to various Recommendations.

Annex to Recommendation No. COM 6/A (500 kHz band)

3.2 The Chairman noted that the Committee, after consideration of the proposal to replace the four international ship station working frequencies in the 500 kHz band, had earlier decided to replace the frequency 425 kHz. The replacement frequency proposed by Planning Group 5A was 458 kHz. The Group also proposed that the frequencies concerned (454, 468, 480 and 458 kHz) should be used as ship station frequencies against the coast station frequencies in the band 415.5 - 435 kHz inclusive.

Those proposals were approved.

3.3 The representative of the International Transport Workers' Federation said that in view of the concern felt by ship station operators and by certain administrations that the channelling arrangements proposed for the 500 kHz bands would cause difficulties for the frequency 512 kHz and the international ship working frequencies, Committee 5 might wish to consider a proposal the delegate of the USSR had made in the planning group, namely that a Resolution should be drawn up to limit the use of channels in the vicinity of 512 kHz, and also possibly in the vicinity of the international ship working frequencies, between the date of entry into force of the channelling plan and the date the future maritime global distress system became fully operative. That restriction would only be required for a few years, since, once the global distress system was in operation, 500 kHz would no longer be a distress frequency and 512 kHz would lose most of its present importance.

3.4 The Chairman said the planning process had unfortunately advanced too far for it to be possible to provide special protection for the frequency 512 kHz. The Conference was, however, aware that difficulties might be caused by transmissions in the vicinity of 512 kHz and drew the attention of administrations to the situation.

3.5 The delegate of France, supported by the delegate of Portugal, said that 435 kHz (channel 99) was the band limit between the aeronautical radionavigation and the maritime mobile services as primary services. In view of the provisions of Radio Regulation 343, referring to separation of a station of a given service from the limits of its band, and of Resolution No. 704 (MOB-83), which designated 435.5 kHz as the first frequency in the maritime mobile service, the frequency 435 kHz should be left unassigned.

3.6 The delegate of Finland disagreed with that interpretation of Radio Regulation 343 but said he could accept the proposal provided that its purpose was to overcome practical difficulties in planning and not to apply a particular interpretation of the Radio Regulations.

On that understanding, the proposal to delete the frequency 435 kHz from the channelling arrangement was approved.

3.7 The Chairman, in reply to a comment by the Chairman of Planning Group 5A, said that that deletion only affected the Plan. Outside the context of the Plan, i.e. after the Conference, assignments to 435 kHz would be governed by the Radio Regulations.

The channelling arrangements in the Annex to Recommendation No. COM 6/A, as amended in discussion, were approved.

Annex to Recommendation No. COM 6/B (2 MHz, narrow-band direct printing)

3.8 The Chairman noted that the square brackets that appeared in the title of the table were for consideration by Committee 6.

On that understanding, the Annex was approved.

Annex to Recommendation No. COM 6/C (2 MHz, radiotelephony)

3.9 The delegate of Finland said that as a result of a difficulty pointed out in the Planning Group, a decision had been taken to change the pairing arrangements for single-sideband radiotelephony. However, it now appeared that that change would cause still other difficulties. In view of the fact that whatever arrangements were made some difficulties would inevitably occur, he proposed that no further large-scale changes be made in the channelling arrangements as they appeared in the document but that instead, when the second draft of the Plan was available, any difficulties encountered should be dealt with on a case-by-case basis.

It was so agreed.

3.10 The Chairman said that in the case of channels 201-205 inclusive, the frequencies concerned were those blocked by Radio Regulations 4358-4364. Since the channels could not be included in the planning process, he proposed, supported by the delegate of Sweden, that they should be deleted from the table.

It was so agreed.

3.11 The delegate of Greece said that, with regard to the five international ship channels concerned, the Chairman should be asked to look into the matter of whether it was necessary to mention explicitly in a footnote that coast stations were free to communicate with ships using such channels on their own paired frequencies; that point might already be adequately covered in the Radio Regulations.

It was so agreed.

The Annex to Recommendation No. COM 6/C, as amended, was approved.

Annex to /Recommendation No. COM 6/... 7 (aeronautical radiobeacons)

3.12 The Chairman said that although 505 kHz was the band limit specified for the aeronautical radionavigation service in the Conference agenda, Committee 5 had earlier decided not to assign the first 5 kHz in the band to that service. He therefore proposed that the figure 505 on the second line of the heading of the table should be replaced by 510 and the square brackets removed.

It was so agreed.

3.13 The Chairman of Planning Group 5B noted that the Planning Group had agreed that in certain cases interleaved frequencies spaced at 0.5 kHz could be used for certain national purposes. In order that adequate protection could be afforded to international beacons from interference from such national beacons, he proposed that an appropriate note should be added to the Annex.

It was so agreed.

3.14 After a discussion in which the delegates of Greece, the United Kingdom and the Netherlands took part, it was proposed by the Chairman of Planning Group 5B that the frequencies 512 and 518 kHz should, in view of their great importance for the maritime mobile service, be excluded from the radiobeacon channelling plan.

It was so agreed.

3.15 The Chairman of Planning Group 5B proposed that in the same way the interleaved frequencies 517.5 and 518.5 kHz should also be excluded from the channelling arrangements.

It was so agreed.

The Annex to /Recommendation No. COM 6/.../, as amended, was approved.

4. Information to be included in the Plans (Document 87)

4.1 The Chairman called for comments on Annexes 1 and 2 to Document 87, which contained a draft list of information to be included in the columns of the Plans.

4.2 Following observations by the delegates of the Netherlands and Sweden on column 13, the Chairman said that that column had originally been included in Annex 1 for the sake of convenience, but it might in fact be superfluous.

After a short discussion it was agreed to delete column 13.

4.3 The representative of the IFRB drew attention to two amendments that should be made to Annex 1. In column 6, the words "Geographical coordinates" should be replaced by "Latitude and longitude (degrees and minutes)"; and under 10A the square brackets should be deleted and the words "minimum usable field strength" replaced by "minimum field strength to be protected".

Document 87, as amended, was approved.

5. Notes by the Secretary-General (Documents 27, 64)

5.1 The Chairman drew attention to Document 27, the Annex to which contained a number of considerations by the United States.

The Committee took note of Document 27.

5.2 The Chairman also drew attention to Document 64 which contained in the Annex the text of a Resolution adopted at the third meeting of Permanent Technical Committee II of the Inter-American Telecommunications Conference (CITEL), requesting that the Conference should endeavour to minimize the potential for interregional interference.

5.3 The delegate of Portugal said that his delegation would like to see frequencies selected from a source compatible with the plan for Region 2.

5.4 The representative of the IFRB said that the Board would examine all notices of assignments in accordance with Article 12, and apply the IFRB technical standards. The question was in fact covered by existing procedures, but the problem stemmed from the allocations between the various Regions decided upon at past allocation conferences.

5.5 The delegate of Algeria said that some services of Region 1, including those of Algeria, suffered interference because of the enormous power used in Region 2. The Conference might perhaps be able to find a solution since attention had been drawn to the matter.

After a short discussion, the Committee took note of Document 64.

6. Modification of some provisions of the Radio Regulations (Document 16)

6.1 The Chairman said it had been found that Document 16 was not assigned to Committee 5 but to Committee 6; he proposed that a note suggesting that it be studied be sent to Committee 6.

It was so agreed.

7. Reports of Chairmen of Planning Groups 5A and 5B (Document 75)

7.1 The Chairman said that since the Committee had received oral reports from the Chairmen of Planning Groups 5A and 5B it would be unnecessary for it to discuss Document 75.

7.2 The delegate of France, making a general comment on the allocation of frequencies in the 435 - 526 band and in the 2 MHz band, said that the results of the first computer run gave great concern to his delegation because some allocations resulted in an uneven distribution of interference. If that matter were not corrected, his delegation would reserve its right to return to it in Plenary.

7.3 The delegate of Sweden, reporting on the state of the planning work, said that an up-dated requirement file was now available but some of the modifications had not gone through properly. That matter was being checked. There were still some cases where there was no clear indication, as regards narrow-band direct printing, whether the requirement was for a frequency in the 500 or the 1 600 band. Heads of delegation were therefore being asked to provide information in such cases.

On the problem raised by the delegate of France complaints had in fact been received from several adjoining countries which considered themselves disadvantaged. However, all countries with coastal stations in congested areas would be bound to be a little dissatisfied.

8. Replacement frequencies under Resolution No. 38

8.1 The Chairman read out the following text and requested delegations to give it some thought before the next meeting of the Committee.

"In Document 25, Annex 1, are listed those assignments to stations in the maritime mobile services that are entered into the Master Register in the frequency band 1 625 to 1 635, 1 800 to 1 810, 1 810 to 1 850, 2 160 to 2 170 kHz. In accordance with Resolution No. 38, these assignments need to be replaced by assignments in the Plan.

During the planning process, priority was attached to satisfying these requirements Delegations are invited to check, when the draft Plan is available, whether replacement frequencies had been found for all assignments in question. In the absence of any contrary views, upon request at one of the subsequent meetings of Committee 5, consequential action will be taken to delete all assignments to stations in the maritime mobile service from the Master Register that are listed in Annex 1 to Document 26."

9. Notes by Chairman of Committee 4 (Documents 60, 61, 62)

The Committee took note of Documents 60, 61 and 62 containing technical criteria to be used in planning.

10. Additional planning criteria for offset frequency protection ratio for aeronautical beacons (Document 88)

The Committee took note of Document 88 which gave Committee 4's decisions on protection ratios for a channel spacing of 500 Hz.

11. Note by Chairman of Committee 3 (Document 58(Rev.1))

11.1 The Chairman drew attention to Document 58(Rev.1), which contained Conference decisions that might have economic implications.

11.2 The representative of the IFRB explained that when the draft plans were available after the second computer run the Conference might require the IFRB to undertake additional procedures. In that context Committee 3 might wish to identify requirements on the basis of an estimate of workload by the Secretariat, but no decision could yet be taken.

11.3 The Chairman said that the Committee would therefore return to the matter at a later meeting.

The meeting rose at 1730 hours.

The Secretary: The Chairman:

G. KOVACS T. BØE

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Corrigendum No. 3 au
Document No. 135-F/E/S
14 mars 1985
Original : français/
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espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

Doc./ page	Adm.	No. de serie IFRB/ IFRB Serial No./ N.o de serie IFRB	Frequence/ Frequency/ Frecuencia	MOD / SUP /ADD
6	TUN	2409	439,00	MOD Col. 6 : 08E45 36N57 Col. 7 : 400
7	TUN	2410	440,00	MOD Col. 6 : 08E45 36N57 Col. 7 : 400
20	POR	585	511,00	MOD Col. 9 : A1A si/if/si/possible
22	TUN	2391	514,00	MOD Col. 6 : 11E05 36N50 Col. 7 : 400
28	TUN	2771	524,50	MOD Col. 6 : 11E05 36N Col. 7 : 200
28	TUN	2750	525,00	MOD Col. 6 : 08E45 36N57 Col. 7 : 400
28	URS	943	526,00	ADD
31	TUN	2906	1612,50	SUP
32	TUN	2907	1614,00	MOD Col. 6 : 010E11
36	AGL	2387	1639,40	MOD Col. 9 : J3E
37	AGL	2381	1645,40	MOD Col. 9 : J3E
37	URS	1398	1642,40	MOD Col. 7 : 200
38	AGL	2385	1651,40	MOD Col. 9 : J3E
39	AGL	2383	1657,40	MOD Col. 9 : J3E
39	E	2709	1657,40	SUP
39	E	466	1657,40	ADD : CHIPIONA RADIO (006W25 36N42)
39	TUN	2389	1660,40	MOD Col. 6 : 10E07 33N45 Col. 7 : 300

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Doc./ page	Adm.	No. de serie IFRB/ IFRB Serial No./ N.o de serie IFRB	Frequence/ Frequency/ Frecuencia	MOD / SUP /ADD
42	GHA	2832	1675,40	MOD Col. 9 : J3E
45	URS	1464	1699,40	SUP
45	URS	1470	1699,40	ADD : PIARNU (24E33 58N23)
47	TUN	2390	1714,40	MOD Col. 6 : 10E07 33N45 Col. 7 : 300
48	URS	1397	1726,40	MOD Col. 7 : 200
49	TUN	2393	1741,40	MOD Col. 6 : 11E05 36N50
52	GHA	2833	1765,40	MOD Col. 4 : TAKORADI Col. 9 : J3E
54	TUN	2412	1780,40	MOD Col. 6 : 08E45 36N57 Col. 7 : 300
54	GHA	2834	1786,40	MOD Col. 9 : J3E

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

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espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

Doc./ page	Adm.	No. de serie IFRB/ IFRB Serial No./ N.o de serie IFRB	Frequence/ Frequency/ Frecuencia	MOD / SUP /ADD
1	URS	943	416,00	SUP
14	GHA		447,00	ADD : TAKORADE A1A
15	POR	584	448,00	MOD Col. 9 : A1A (?)
15	URS	1326	448,00	MOD Col. 7 : 100
15	URS	1118	448,5	MOD Col. 7 : 100
15	URS	1319	448,5	MOD Col. 7 : 200
16	URS	1277	449,00	MOD Col. 7 : 100
16	URS	1387	449,00	MOD Col. 7 : 200
16	IRQ	2913	449,5	MOD Col. 4 : FAO
17	URS	1209	450,00	MOD Col. 7 : 185
17	URS	1540	450,00	idem
17	URS	1065	450,5	idem
17	URS	1422	450,5	idem
17	URS	1423	450,5	idem
17	URS	1509	450,5	idem
17	URS	951	451,00	idem
17	URS	1229	451,00	idem
17	URS	1230	451,00	idem
17	URS	1234	451,00	idem
18	URS	1564	451,5	idem
18	URS	1334	452,5	idem
18	URS	1500	452,5	idem
19	URS	1314	452,5	idem
19	URS	1009	453,00	idem
19	URS	1215	453,00	idem
19	URS	1391	453,00	idem

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Doc./ page	Adm.	No. de serie IFRB/ IFRB Serial No./ N.o de serie IFRB	Frequence/ Frequency/ Frecuencia	MOD / SUP /ADD
21	URS	1417	513,5	MOD Col. 7 : 100
22	URS	1330	514,00	MOD Col. 7 : 100
22	URS	1546	515,00	MOD Col. 7 : 200
24	URS	972	517,00	MOD Col. 7 : 100
26	URS	1067	521,5	MOD Col. 7 : 200
26	URS	1321	521,5	MOD Col. 7 : 100
26	URS	1148	522,00	MOD Col. 7 : 100
27	URS	1228	523,00	MOD Col. 7 : 100
27	URS	1379	523,00	MOD Col. 7 : 200
27	URS	1226	523,5	MOD Col. 7 : 200
28	URS	1144	525,5	MOD Col. 7 : 100
29	URS	1426	526,00	MOD Col. 7 : 100

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Corrigendum No. 1 au
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14 mars 1985
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SEANCE PLENIERE
PLENARY MEETING
SESIÓN PLENARIA

Doc./ page	Adm.	No. de serie IFRB/ IFRB Serial No./ N.o de serie IFRB	Frequence/ Frequency/ Frecuencia	MOD / SUP /ADD
1	URS	1570	428,5	MOD Col. 7 : 100
1	I	658	435,00	ADD col.13 : note/nota
1	I	674	435,00	Les assignations à ces stations ont été
1	URS	925	435,00	incluses dans le Plan et seront protégées
1	URS	926	435,00	en application de l'Article 4 de l'Accord,
1	URS	1011	435,00	même si cette fréquence n'est pas incluse
1	URS	1012	435,00	dans l'Annexe 3.
				The assignments to these stations have been included in the Plan and are to be protected in application of Article 4 of the Agreement even though the frequency is not included in Annex 3.
				Las asignaciones de estas estaciones han sido incluidas en el Plan y serán protegidas por el Artículo 4 del Acuerdo aún cuando la frecuencia no está incluida en el Anexo 3.
1	URS	925	435,00	MOD Col. 7 : 100
1	URS	1011	435,00	MOD Col. 7 : 100
2	GHA	2832	436,5	ADD :
	2832 436,5 GHA TEMA		GHA 000H00 05N37 400 CP 100HA1A ND	0000 2359
3	URS	1561	436,5	MOD Col. 7 : 100
3	URS	1183	437,00	MOD Col. 7 : 100
3	URS	1405	437,00	MOD Col. 7 : 200
5	URS	1017	438,00	MOD Col. 7 : 100
5	CNR	525	438,5	MOD Col. 9 : A1A (?)
7	URS	1428	439,5	MOD Col. 7 : 100
7	URS	1544	440,00	MOD Col. 7 : 200
7	URS	1022	440,4	SUP
8	URS	1146	440,5	MOD Col. 7 : 100

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Doc./ page	Adm.	No. de serie IFRB/ IFRB Serial No./ N.o de serie IFRB	Frequence/ Frequency/ Frecuencia	MOD / SUP /ADD
10	URS	1219	442,00	MOD Col. 7 : 200
10	CNR	524	442,5	MOD Col. 9 : A1A (?)
10	URS	992	442,5	MOD Col. 7 : 100
11	URS	1325	443,00	MOD Col. 7 : 100
13	GHA	2838	445,5	ADD
2834	445,5	GHA TAKORADI	.GHA 001N45 04N54	400 CP 100HA1A ND 0000 2359
13	CNR	2691	446,5	MOD Col. 9 : A1A

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

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SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

PROJET DE PLAN D'ASSIGNATIONS DE FREQUENCE AUX STATIONS DU SERVICE MOBILE MARITIME DE LA REGION 1 DANS LES BANDES 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz 1 635 - 1 800 kHz et 2 045 - 2 160 kHz

DRAFT FREQUENCY ASSIGNMENT PLAN FOR STATIONS IN THE MARITIME MOBILE SERVICE IN REGION 1 IN THE BANDS 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

PROYECTO DE PLAN DE ASIGNACIONES DE FRECUENCIA A ESTACIONES DEL SERVICIO MOVIL MARITIMO DE LA REGION 1 EN LAS BANDAS 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz 1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Annexe/Annex/Anexo: 1

Pour des raisons d'économie, ce document n'a été tiré qu'en un nombre restreint d'exemplaires. Les participants sont donc priés de bien vouloir apporter à la réunion leurs documents avec eux, car il n'y aura pas d'exemplaires supplémentaires disponibles.

Renseignements inclus dans les colonnes du Plan (Région 1) pour le service mobile maritime dans les bandes 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz et 2 045 - 2 160 kHz

Colonne

0. Numéro de série de l'IFRB

1. Fréquence assignée (kHz)/(fréquence porteuse (kHz) pour J3E)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station côtière d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude (degrés et minutes) de la station d'émission

7. Rayon (km) de la zone de service circulaire

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance d'émission nécessaire

    10A: puissance apparente rayonnée sur une antenne verticale courte (p.a.r.v.) (dBW)
    (valeur calculée sur la base du champ minimum à proteger et de la portée de service dans les conditions de propagation par onde de sol)

    10B: puissance fournie à la ligne d'alimentation de l'antenne (dBW)
    (valeur calculée: p.a.r.v. + 7 dB (pour la bande des 500 kHz)
    p.a.r.v. + 4 dB (pour la bande des 2 MHz))

11. Caractéristiques de l'antenne

    11A: azimut du rayonnement maximum (ND pour les antennes non directives) (degrés)

    11B: gain maximum de l'antenne (dB)

    11C: angle d'ouverture du lobe principal (degrés)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

Information included in the columns of the Plan (Region 1) for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Column

0. IFRB Serial No.

1. Assigned frequency (kHz)/(carrier frequency (kHz) for J3E)

2. Channel number

3. Country symbol

4. Transmitting coast station name

5. Symbol of the geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and class of emission

10. Necessary transmitting power:

10A: effective monopole radiated power (e.m.r.p.) (dBW)

(calculated value on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

10B: power supplied to the antenna transmission line (dBW)
(calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
e.m.r.p. + 4 dB (for the 2 MHz band)

11. Antenna characteristics

11A: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

11B: maximum antenna gain (dB)

11C: angular width of the main lobe (degrees)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Información incluida en las columnas del Plan (Región 1) para el servicio móvil marítimo en las bandas 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)/(frecuencia portadora (kHz) para emisión J3E)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación costera transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6 Longitud y latitud (grados y minutos) de la estación transmisora

7. Radio (km) de la zona de servicio circular

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión

10. Potencia de transmisión necesaria

10A: potencia radiada aparente referida a una antena vertical corta (p.r.a.v.) (dBW)
(valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

10B: potencia suministrada a la línea de transmisión de la antena (dBW)
(valor calculado: p.r.a.v. + 7 dB (para bandas de 500 kHz)
p.r.a.v. + 4 dB (para bandas de 2 MHz))

11. Características de la antena

11A: azimut de radiación máxima (ND para antena no direccional) (grados)

11B: ganancia máxima de la antena (dB)

11C: anchura angular del lóbulo principal (grados)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
943	416.00	URS		IALTA	UKR	034E10 44N39	200	CO	304HF1B			ND			0000 2359	
667	419.50	I		CAGLIARI	I	009E07 39N15	98	CP	304HF1B			ND			0000 2359	
663	421.50	I		BARI	I	017E25 40N26	98	CP	304HF1B			ND			0000 2359	
664	422.00	I		BARI	I	017E25 40N26	98	CP	304HF1B			ND			0000 2359	
962	422.00	URS		SEVASTOPOL	UKR	033E32 44N34	200	CO	304HF1B			ND			0000 2359	
963	422.00	URS		SEVASTOPOL	UKR	033E32 44N34	98	CO	304HF1B			ND			0000 2359	
650	423.50	I		NAPOLI	I	014E14 40N42	98	CO	304HF1B			ND			0000 2359	
665	424.00	I		CAGLIARI	I	009E07 39N15	98	CP	304HF1B			ND			0000 2359	
1013	428.00	URS		ODESSA	UKR	030E45 46N29	350	OT	304HF1B			ND			0000 2359	
1378	428.50	URS		KLAIPEDA	URS	021E12 55N46	98	CP	304HF1B			ND			0000 2359	
1570	428.50	URS		KLAIPEDA	URS	021E12 55N46	350	CP	304HF1B			ND			0000 2359	
641	430.50	I		ROMA	I	012E31 41N48	98	CP	304HF1B			ND			0000 2359	
642	431.00	I		ROMA	I	012E31 41N48	98	CP	304HF1B			ND			0000 2359	
638	432.00	I		NAPOLI	I	014E14 40N50	98	CP	304HF1B			ND			0000 2359	
350	433.00	DDR		RUEGEN	DDR	013E37 54N35	98	CP	304HF1B			ND			0000 2359	
672	434.00	I		NAPOLI	I	014E14 40N50	98	CP	304HF1B			ND			0000 2359	
657	434.50	I		ANCONA	I	013E28 43N36	98	CP	304HF1B			ND			0000 2359	
673	434.50	I		NAPOLI	I	014E14 40N50	98	CP	304HF1B			ND			0000 2359	
658	435.00	I		ANCONA	I	013E28 43N36	98	CP	304HF1B			ND			0000 2359	
674	435.00	I		NAPOLI	I	014E14 40N50	98	CP	304HF1B			ND			0000 2359	
925	435.00	URS		KERTCH	UKR	036E28 45N22	350	CO	304HF1B			ND			0000 2359	
926	435.00	URS		KERTCH	UKR	036E28 45N22	98	CO	304HF1B			ND			0000 2359	
1011	435.00	URS		ODESSA	UKR	030E45 46N29	350	CO	304HF1B			ND			0000 2359	
1012	435.00	URS		ODESSA	UKR	030E45 46N29	98	CO	304HF1B			ND			0000 2359	
506	435.50	E		BAGUR RADIO	E	003E13 41N58	500	CP	304HF1B			ND			0000 2359	
2558	435.50	EGY		KOSSEIR RADIO	EGY	034E17 26N06	498	CP	100HA1A			ND			0400 2200	
2228	435.50	GAB		LIBREVILLE	GAB	009E26 00N25	498	CP	304HF1B			ND			0600 1800	
2009	435.50	GRC		KERKYRA	GRC	019E54 39N37	368	CP	100HA1A			ND			0000 2359	
617	435.50	I		TRAPANI	I	012E31 38N01	79	CV	100HA1A			ND			0800 1700	
899	435.50	IRQ		BASRAH	IRQ	047E47 30N33	98	CR	304HF1B			ND			0000 2359	
2277	435.50	MOZ		MAPUTO RADIONAVAL	MOZ	032E34 25S50	498	CO	100HA1A			ND			0000 2359	
2578	435.50	POR		LAGES	AZR	027W06 38N46	500	CO	100HA1A			ND			0000 2359	
580	435.50	POR		LISBOA	POR	009W14 38N44	398	CP	304HF1B			ND			0000 2359	
360	435.50	S		KARLSKRONA RADIO	S	015E33 56N11	198	CP	304HF1B			ND			0000 2359	
2825	435.50	TRC		TRISTANDACUNHA	TRC	012W19 35S03	500	CO	100HA1A			ND			0600 1800	
982	435.50	URS		KHERSON	UKR	032E34 46N39	198	CO	100HA1A			ND			0000 2359	
1231	435.50	URS		BAKU	URS	049E45 40N20	348	OT	100HA1A			ND			0000 2359	
1232	435.50	URS		BAKU	URS	049E45 40N20	350	OT	304HF1B			ND			0000 2359	
1085	435.50	URS		GURIEV	URS	051E55 47N03	200	CO	304HF1B			ND			0000 2359	
1086	435.50	URS		GURIEV	URS	051E55 47N03	198	CO	100HA1A			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1286	435.50	URS		GURIEV	URS	051E55 47N03	200	CO	304HF1B			ND			0000 2359	
1287	435.50	URS		GURIEV	URS	051E55 47N03	200	CO	100HA1A			ND			0000 2359	
1367	435.50	URS		KANDALAKCHA	URS	032E29 67N10	200	CP	304HF1B			ND			0000 2359	
1368	435.50	URS		KANDALAKCHA	URS	032E29 67N10	198	CP	100HA1A			ND			0000 2359	
1345	435.50	URS		NARIAN-MAR	URS	053E00 67N39	350	CO	304HF1B			ND			0000 2359	
1346	435.50	URS		NARIAN-MAR	URS	053E00 67N39	348	CO	304HF1B			ND			0000 2359	
2826	435.50	YEM		HODEIDAH	YEM	042E54 14N55	500	CP	100HA1A			ND			0000 2359	
2174	436.00	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	98	CP	304HF1B			ND			0000 2359	
2146	436.00	ALG		TENES RADIO	ALG	001E18 36N32	98	CP	304HF1B			ND			0000 2359	
1906	436.00	ARS		JEDDAHRADIO	ARS	039E10 21N23	500	CP	100HA1A			ND			0000 2359	
1972	436.00	BUL		BOURGAS RADIO	BUL	027E29 42N30	500	CO	100HA1A			ND			0000 2359	
2035	436.00	DNK		ROENNE	DNK	014E53 55N07	398	CO	100HA1A			ND			0000 2359	
1824	436.00	F		TOULON	F	006E04 43N08	500	CO	304HF1B			ND			0000 2359	
88	436.00	G		CULLERCOATS RADIO	G	001W28 55N04	318	CP	304HF1B			ND			0000 2359	
2539	436.00	I		MAZARA VALLO	I	012E34 37N38	98	CP	304HF1B			ND			0000 2359	
2894	436.00	LBY		TOBRUK	LBY	023E59 32N02	500	CV	100HA1A			ND			0000 2359	
1591	436.00	MDG		ANTALAHA	MDG	050E16 14S53	348	CP	100HA1A			ND			0000 2359	
1625	436.00	MOZ		BEIRA RADIO	MOZ	034E54 19S51	498	CP	304HF1B			ND			0000 2359	
1667	436.00	NOR		BJOERNOEYA	NOR	019E01 74N31	368	CP	100HA1A			ND			0000 2359	
1658	436.00	NOR		JAN MAYEN	NOR	008W40 70N57	368	CP	100HA1A			ND			0000 2359	
602	436.00	POR		S MIGUEL	AZR	025W39 37N45	398	CP	304HF1B			ND			0000 2359	
377	436.00	S		HAERNOESAND RADIO	S	021E36 64N28	498	CP	100HA1A			ND			0000 2359	
1244	436.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	100HA1A			ND			0000 2359	
1245	436.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	304HF1B			ND			0000 2359	
1249	436.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	304HF1B			ND			0000 2359	
1250	436.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	198	CP	100HA1A			ND			0000 2359	
1259	436.00	URS		GURIEV	URS	051E55 47N03	198	CP	100HA1A			ND			0000 2359	
1361	436.00	URS		MEZEN	URS	044E17 65N51	198	CP	304HF1B			ND			0000 2359	
1302	436.00	URS		TAGANROG	URS	038E53 47N13	200	CP	304HF1B			ND			0000 2359	
1303	436.00	URS		TAGANROG	URS	038E53 47N13	198	CP	304HF1B			ND			0000 2359	
2735	436.50	ALB		VLORE PT RADIO	ALB	019E29 40N27	398	CP	100HA1A			ND			0000 2359	
2159	436.50	ALG		ORAN RADIO	ALG	000W08 35N46	98	CP	304HF1B			ND			0000 2359	
1909	436.50	ARS		DAMMAMRADIO	ARS	050E06 26N26	500	CP	304HF1B			ND			0000 2359	
2664	436.50	CME		CAMPO	CME	009E51 02N22	398	OT	100HA1A			ND			0700 1900	
2845	436.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2065	436.50	F		ARCACHON	F	001W10 44N39	200	CP	304HF1B			ND			0000 2359	
1814	436.50	F		DZAOUDZI	MYT	045E17 12S48	398	CP	304HF1B			ND			0000 2359	
2618	436.50	KEN		MOMBASA RADIO	KEN	039E44 03S58	500	CP	304HF1B			ND			0000 2359	
1606	436.50	MDG		TOLIARA	MDG	043E41 23S21	498	CP	304HF1B			ND			0000 2359	
1628	436.50	MOZ		BEIRA RADIO	MOZ	034E54 19S51	200	CP	304HF1B			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 3 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1681	436.50			NOR KRISTIANSAND S	NOR	007E59 58N03	368	CO	100HA1A			ND			0000 2359	
1677	436.50			NOR VARDOE	NOR	031E05 70N22	368	CP	100HA1A			ND			0000 2359	
601	436.50			POR S MIGUEL	AZR	025W39 37N45	398	CP	100HA1A			ND			0000 2359	
608	436.50			POR MADEIRA	MDR	016W50 32N38	398	CP	100HA1A			ND			0000 2359	
581	436.50			POR LISBOA	POR	009W14 38N44	398	CP	100HA1A			ND			0000 2359	
2764	436.50			TUN TUNIS RADIO 2 MDN	TUN	010E11 36N53	298	CP	100HA1A			ND			0000 2359	
989	436.50			URS SKADOVSK	UKR	032E56 46N07	200	CO	304HF1B			ND			0000 2359	
990	436.50			URS SKADOVSK	UKR	032E56 46N07	198	CO	100HA1A			ND			0000 2359	
1561	436.50			URS KLAIPEDA	URS	021E12 55N46	200	CO	304HF1B			ND			0000 2359	
1562	436.50			URS KLAIPEDA	URS	021E12 55N46	98	CO	304HF1B			ND			0000 2359	
1347	436.50			URS NARIAN-MAR	URS	053E00 67N39	350	CO	304HF1B			ND			0000 2359	
1348	436.50			URS NARIAN-MAR	URS	053E00 67N39	348	CO	100HA1A			ND			0000 2359	
1483	436.50			URS NARIAN-MAR	URS	053E00 67N39	200	CO	304HF1B			ND			0000 2359	
1484	436.50			URS NARIAN-MAR	URS	053E00 67N39	200	CO	100HA1A			ND			0000 2359	
1363	436.50			URS ONEGA	URS	038E10 63N57	198	CP	100HA1A			ND			0000 2359	
1364	436.50			URS ONEGA	URS	038E10 63N57	200	CP	304HF1B			ND			0000 2359	
1558	436.50			URS VYBORG	URS	028E46 60N42	198	CP	100HA1A			ND			0000 2359	
1559	436.50			URS VYBORG	URS	028E46 60N42	200	CP	304HF1B			ND			0000 2359	
904	437.00			AFS CAPE TOWN	AFS	018E43 33S41	498	CP	100HA1A			ND			0000 2359	
906	437.00			AFS DURBAN	AFS	030E48 29S48	498	CP	100HA1A			ND			0000 2359	
2377	437.00			AGL LUANDA	AGL	013E14 08S47	200	CP	304HF1B			ND			0000 2359	
2122	437.00			ALG ORAN RADIO	ALG	000W08 35N46	500	CP	304HF1B			ND			0000 2359	
2215	437.00			BEL ANTWERPEN RADIO	BEL	004E19 51N16	498	CP	304HF1B			ND			0000 2359	
2643	437.00			BEN COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2669	437.00			CME KRIBI	CME	009E43 02N53	398	CO	304HF1B			ND			0000 2359	
2293	437.00			CVA CITE DU VATICAN	CVA	012E27 41N55	500	OT	304HF1B			ND			0000 2359	
2801	437.00			DJI DJIBOUTI	DJI	043E08 11N36	500	CP	100HA1A			ND			0000 2359	
2557	437.00			EGY ALEXANDRIA RADIO	EGY	029E52 31N12	498	CP	100HA1A			ND			0000 2359	
2916	437.00			IRQ BASRAH	IRQ	047E47 30N33	98	CV	304HF1B			ND			0000 2359	
1746	437.00			POR HORTA	AZR	028W38 38N32	200	CO	304HF1B			ND			0000 2359	
1751	437.00			POR PORTO SANTO	MDR	016W20 33N05	500	CO	304HF1B			ND			0000 2359	
2499	437.00			TUR ZONGULDAK	TUR	031E48 41N27	248	CP	304HF1B			ND			0000 2359	
985	437.00			URS KHERSON	UKR	032E34 46N39	200	CP	304HF1B			ND			0000 2359	
986	437.00			URS KHERSON	UKR	032E34 46N39	98	CP	304HF1B			ND			0000 2359	
1182	437.00			URS ASTRAKHAN	URS	047E42 46N55	98	CO	304HF1B			ND			0000 2359	
1183	437.00			URS ASTRAKHAN	URS	047E42 46N55	350	CO	304HF1B			ND			0000 2359	
1089	437.00			URS KHUDAT	URS	048E39 41N38	198	CO	100HA1A			ND			0000 2359	
1090	437.00			URS KHUDAT	URS	048E39 41N38	200	CO	304HF1B			ND			0000 2359	
1404	437.00			URS LIEPAIA	URS	021E02 56N43	200	CO	304HF1B			ND			0000 2359	
1405	437.00			URS LIEPAIA	URS	021E02 56N43	350	CO	304HF1B			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 4 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1128	437.00		URS	PICUNDA	URS	040E21 43N09	198	CO	304HF1B			ND			0000 2359	
1586	437.00		URS	PICUNDA	URS	040E21 43N09	200	CO	304HF1B			ND			0000 2359	
1124	437.00		URS	SUKHUMI	URS	040E42 43N00	200	CO	304HF1B			ND			0000 2359	
1125	437.00		URS	SUKHUMI	URS	040E42 43N00	198	CO	100HA1A			ND			0000 2359	
2384	437.50		AGL	CABINDA	AGL	012E11 05S34	498	CP	100HA1A			ND			0000 2359	
2647	437.50		BEN	COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2674	437.50		CME	DOUALA	CME	009E43 04N01	398	CO	100HA1A			ND			0000 2359	
2792	437.50		CPV	PRAIA	CPV	023W30 14N55	200	CP	304HF1B			ND			0000 2359	
462	437.50		E	CABO PENAS RADIO	E	005W51 43N39	500	CP	304HF1B			ND			0000 2359	
1818	437.50		F	AJACCIO	F	008E46 41N55	500	CO	304HF1B			ND			0000 2359	
1999	437.50		GRC	ATHINAI	GRC	023E53 38N00	368	CP	100HA1A			ND			0000 2359	
898	437.50		IRQ	BASRAH	IRQ	047E47 30N33	98	CR	304HF1B			ND			0000 2359	
2919	437.50		LBY	TRIPOLI RADIO	LBY	013E11 32N54	277	CP	100HA1A			ND			0000 2359	
1592	437.50		MDG	ANTSERANANA	MDG	049E17 12S17	498	CP	100HA1A			ND			0000 2359	
1605	437.50		MDG	TOLIARA	MDG	043E41 23S21	498	CP	100HA1A			ND			0000 2359	
2898	437.50		MTN	NOUADHIBOU RADIO	MTN	017W03 20N54	500	CP	304HF1B			ND			0800 1800	
1670	437.50		NOR	AALESUND	NOR	006E12 62N28	179	CP	100HA1A			ND			0000 2359	
605	437.50		POR	S MIGUEL	AZR	025W39 37N45	398	CP	304HF1B			ND			0000 2359	
357	437.50		S	HAARSFJAERDEN RADIO	S	018E40 58N59	398	CO	100HA1A			ND			0000 2359	
367	437.50		S	TINGSTAEDE RADIO	S	018E36 57N44	298	CO	100HA1A			ND			0000 2359	
2774	437.50		SYR	LATTAKIA RADIO	SYR	035E47 35N30	498	CP	100HA1A			ND			0000 2359	
1026	437.50		URS	IZMAIL	UKR	028E51 45N20	200	CO	304HF1B			ND			0000 2359	
1027	437.50		URS	IZMAIL	UKR	028E51 45N20	200	CO	100HA1A			ND			0000 2359	
1034	437.50		URS	IZMAIL	UKR	028E51 45N20	350	CP	304HF1B			ND			0000 2359	
1035	437.50		URS	IZMAIL	UKR	028E51 45N20	348	CP	100HA1A			ND			0000 2359	
1038	437.50		URS	KILIIA	UKR	029E15 45N26	200	CP	304HF1B			ND			0000 2359	
1039	437.50		URS	KILIIA	UKR	029E15 45N26	198	CP	100HA1A			ND			0000 2359	
1023	437.50		URS	RENI	UKR	028E18 45N29	198	CO	100HA1A			ND			0000 2359	
1197	437.50		URS	EISK	URS	038E15 46N41	200	CO	304HF1B			ND			0000 2359	
1198	437.50		URS	EISK	URS	038E15 46N41	198	CO	100HA1A			ND			0000 2359	
905	438.00		AFS	CAPE TOWN	AFS	018E43 33S41	498	CP	304HF1B			ND			0000 2359	
907	438.00		AFS	DURBAN	AFS	030E48 29S48	498	CP	304HF1B			ND			0000 2359	
2386	438.00		AGL	SOYO	AGL	012E12 06S07	498	CP	100HA1A			ND			0000 2359	
2734	438.00		ALB	DURRES PT RADIO	ALB	019E26 41N27	398	CP	100HA1A			ND			0000 2359	
2684	438.00		CME	LIMBE	CME	009E22 04N02	398	CP	100HA1A			ND			0700 1900	
2025	438.00		DNK	LYNGBY	DNK	011E25 55N50	348	CP	100HA1A			ND			0000 2359	
510	438.00		E	LAS PALMAS	CNR	015W26 28N09	500	CO	100HA1A			ND			0000 2359	
455	438.00		E	CABO DE LA NAO RADIO	E	000E11 38N43	500	CP	100HA1A			ND			0000 2359	
613	438.00		I	GRADO	I	013E23 45N41	79	CV	100HA1A			ND			0800 1700	
542	438.00		IRL	MALIN HEAD	IRL	007W21 55N22	498	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2072	438.00		ISL	REYKJAVIK RADIO	ISL	021W51 64N05	500	CP	304HF1B			ND			0000 2359	
2890	438.00		LBY	TRIPOLI	LBY	013E11 32N54	500	CP	100HA1A			ND			0000 2359	
2260	438.00		MAU	MAURITIUS RADIO	MAU	057E30 20S20	500	CP	304HF1B			ND			0000 2359	
1607	438.00		MDG	ANTSERANANA	MDG	049E17 12S17	498	CP	304HF1B			ND			0000 2359	
603	438.00		POR	HORTA	AZR	028W38 38N32	500	CO	304HF1B			ND			0000 2359	
22	438.00		QAT	DOHA	QAT	051E35 25N45	500	CP	304HF1B			ND			0000 2359	
1017	438.00		URS	ODESSA	UKR	030E45 46N29	350	CP	304HF1B			ND			0000 2359	
1018	438.00		URS	ODESSA	UKR	030E45 46N29	98	CP	304HF1B			ND			0000 2359	
1212	438.00		URS	MAKHATCHKALA	URS	047E30 42N59	348	CO	304HF1B			ND			0000 2359	
1213	438.00		URS	MAKHATCHKALA	URS	047E30 42N59	350	CO	304HF1B			ND			0000 2359	
1529	438.00		URS	PETROZAVODSK	URS	034E19 61N48	350	CO	304HF1B			ND			0000 2359	
1530	438.00		URS	PETROZAVODSK	URS	034E19 61N48	348	CO	100HA1A			ND			0000 2359	
1298	438.00		URS	TAGANROG	URS	038E53 47N13	200	CO	304HF1B			ND			0000 2359	
1299	438.00		URS	TAGANROG	URS	038E53 47N13	198	CO	100HA1A			ND			0000 2359	
33	438.00		YMS	HISWA	YMS	044E54 12N49	500	CP	304HF1B			ND			0000 2359	
2132	438.50		ALG	ANNABA RADIO	ALG	007E45 36N54	200	CP	304HF1B			ND			0000 2359	
2162	438.50		ALG	ORAN RADIO	ALG	000W08 35N46	98	CP	304HF1B			ND			0000 2359	
2622	438.50		BEN	COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2857	438.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2785	438.50		CPV	MINDELO	CPV	024W59 16N53	98	CP	304HF1B			ND			0000 2359	
525	438.50		E	TENERIFE RADIO	CNR	016W20 28N25	500	CP	304HF1B			ND			0000 2359	
2701	438.50		E	CDEPENAS	E	005W51 43N39	498	CP	100HA1A			ND			0000 2359	
2549	438.50		EGY	TOR RADIO	EGY	033E35 28N15	298	CP	304HF1B			ND			0400 2200	
2019	438.50		GRC	SPATA ATTIKIS	GRC	023E55 37N58	368	CO	100HA1A			ND			0000 2359	
649	438.50		I	LA SPEZIA	I	009E43 44N06	379	CO	304HF1B			ND			0000 2359	
892	438.50		IRQ	BASRAH	IRQ	047E47 30N33	500	CR	304HF1B			ND			0000 2359	
2846	438.50		LBR	HARPER C PALMA	LBR	007W44 04N22	398	CP	100HA1A			ND			0800 2300	
1597	438.50		MDG	MANANJARY	MDG	048E20 21S13	248	CP	100HA1A			ND			0000 2359	
2278	438.50		MOZ	MAPUTO RADIONAVAL	MOZ	032E34 25S50	498	CO	304HF1B			ND			0000 2359	
2348	438.50		STP	S TOME RADIO	STP	006E44 00N21	398	CP	304HF1B			ND			0000 2359	
935	438.50		URS	IALTA	UKR	034E10 44N39	200	CO	304HF1B			ND			0000 2359	
936	438.50		URS	IALTA	UKR	034E10 44N39	200	CO	100HA1A			ND			0000 2359	
947	438.50		URS	IALTA	UKR	034E10 44N39	350	CP	304HF1B			ND			0000 2359	
948	438.50		URS	IALTA	UKR	034E10 44N39	348	CP	100HA1A			ND			0000 2359	
1406	438.50		URS	LIEPAIA	URS	021E02 56N43	348	CO	304HF1B			ND			0000 2359	
1407	438.50		URS	LIEPAIA	URS	021E02 56N43	350	CO	304HF1B			ND			0000 2359	
1376	438.50		URS	PETROZAVODSK	URS	034E19 61N48	200	OT	304HF1B			ND			0000 2359	
1377	438.50		URS	PETROZAVODSK	URS	034E19 61N48	198	OT	304HF1B			ND			0000 2359	
2378	439.00		AGL	LUANDA	AGL	013E14 08S47	98	CP	304HF1B			ND			0000 2359	
2224	439.00		BEL	OOSTENDE RADIO	BEL	002E48 51N11	498	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2651	439.00		BEN	COTONOU	BEN	002E28 06N22	500	CP	100HA1A			ND			0000 2359	
1962	439.00		BUL	VARNA RADIO	BUL	027E46 43N04	98	CO	304HF1B			ND			0000 2359	
2781	439.00		CPV	MINDELO	CPV	024W59 16N53	500	CP	304HF1B			ND			0000 2359	
52	439.00		G	GIBRALTAR	GIB	005W21 36N07	318	CP	100HA1A			ND			0000 2359	
44	439.00		G	ST HELENA	SHN	005W43 15S56	318	CP	100HA1A			ND			0000 2359	
2903	439.00		GUI	KONAKRI	GUI	013W37 09N30	298	CP	304HF1B			ND			0000 2359	
619	439.00		I	VENEZIA	I	012E20 45N26	79	CV	100HA1A			ND			0800 1700	
2258	439.00		MAU	MAURITIUS RADIO	MAU	057E30 20S20	500	CP	304HF1B			ND			0000 2359	
1599	439.00		MDG	NOSSI BE	MDG	048E16 13S24	348	CP	100HA1A			ND			0000 2359	
1604	439.00		MDG	TOLAGNARO	MDG	046E59 25S01	498	CP	304HF1B			ND			0000 2359	
1627	439.00		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	200	CP	304HF1B			ND			0000 2359	
1921	439.00		MRC	LAAYOUNE	MRC	013W13 27N10	348	CP	304HF1B			ND			0000 2359	
21	439.00		QAT	DOHA	QAT	051E35 25N45	500	CP	304HF1B			ND			0000 2359	
361	439.00		S	KARLSKRONA RADIO	S	015E33 56N11	198	CO	100HA1A			ND			0000 2359	
364	439.00		S	RUDA RADIO	S	016E18 57N12	198	CO	100HA1A			ND			0000 2359	
16	439.00		SEY	MAHE	SEY	055E27 04S37	500	CP	100HA1A			ND			0000 2359	
2409	439.00		TUN	TABARKA RADIO	TUN	006E25 36N57	500	CP	100HA1A			ND			0600 1900	
1051	439.00		URS	GENITCHESK	UKR	034E48 46N12	198	CP	304HF1B			ND			0000 2359	
1052	439.00		URS	GENITCHESK	UKR	034E48 46N12	200	CP	304HF1B			ND			0000 2359	
1486	439.00		URS	KESTENGA	URS	032E00 65N55	200	CO	304HF1B			ND			0000 2359	
1487	439.00		URS	KESTENGA	URS	032E00 65N55	198	CO	100HA1A			ND			0000 2359	
1496	439.00		URS	LODEINOE	URS	033E34 60N43	200	CO	304HF1B			ND			0000 2359	
1497	439.00		URS	LODEINOE	URS	033E34 60N43	198	CO	100HA1A			ND			0000 2359	
1490	439.00		URS	TCHUPA	URS	033E00 66N16	200	CO	304HF1B			ND			0000 2359	
1491	439.00		URS	TCHUPA	URS	033E00 66N16	198	CO	100HA1A			ND			0000 2359	
843	439.00		YUG	DUBROVNIK	YUG	018E07 42N38	298	CP	100HA1A			ND			0000 2359	
2382	439.50		AGL	LOBITO	AGL	013E33 12S22	498	CP	100HA1A			ND			0000 2359	
2214	439.50		BEL	OOSTENDE RADIO	BEL	002E48 51N11	498	CP	304HF1B			ND			0000 2359	
2620	439.50		BEN	COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2521	439.50		BHR	HAMALA	BHR	050E28 26N09	500	CP	100HA1A			ND			0000 2359	
1963	439.50		BUL	VARNA RADIO	BUL	027E46 43N04	500	CO	100HA1A			ND			0000 2359	
2783	439.50		CPV	MINDELO	CPV	024W59 16N53	200	CP	304HF1B			ND			0000 2359	
2461	439.50		CTI	ABIDJAN RADIO	CTI	003W58 05N21	298	CP	100HA1A			ND			0000 2359	
336	439.50		DDR	RUEGEN	DDR	013E37 54N35	98	CP	304HF1B			ND			0000 2359	
2703	439.50		E	CEUTA	E	005W21 35N54	498	CP	100HA1A			ND			0000 2359	
2226	439.50		GAB	LIBREVILLE	GAB	009E26 00N25	498	CP	100HA1A			ND			0600 1800	
2257	439.50		MAU	MAURITIUS RADIO	MAU	057E30 20S20	500	CP	100HA1A			ND			0000 2359	
1603	439.50		MDG	TOLAGNARO	MDG	046E59 25S01	498	CP	100HA1A			ND			0000 2359	
2424	439.50		MLT	XLOKK RADIO	MLT	014E32 35N49	500	CP	100HA1A			ND			0000 2359	
1626	439.50		MOZ	NACALA RADIO	MOZ	040E39 14S34	498	CP	304HF1B			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 7 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2900	439.50			MTN NOUAKCHOTT RADIO	MTN	015W58 18N06	500	CP	304HF1B			ND			0000 2359	
375	439.50			S HAERNOESAND RADIO	S	018E08 62N43	498	CP	304HF1B			ND			0000 2359	
2579	439.50			SRL FTN	SRL	013W15 08N29	298	CP	100HA1A			ND			0000 2359	
2490	439.50			TUR ISKENDERUN	TUR	036E07 36N37	248	CP	100HA1A			ND			0000 2359	
1428	439.50			URS KALININGRAD	URS	020E30 54N45	350	CP	304HF1B			ND			0000 2359	
1429	439.50			URS KALININGRAD	URS	020E30 54N45	98	CP	304HF1B			ND			0000 2359	
1155	439.50			URS TUAPSE	URS	039E05 44N01	198	CP	100HA1A			ND			0000 2359	
840	439.50			YUG RIJEKA	YUG	014E33 45N07	298	CP	100HA1A			ND			0000 2359	
1908	440.00			ARS RAS TANURA RADIO	ARS	050E07 26N18	500	CV	100HA1A			ND			0000 2359	
2789	440.00			CPV PRAIA	CPV	023W30 14N55	500	CP	100HA1A			ND			1000 2000	
2471	440.00			CTI ABIDJAN SANTE MARINE	CTI	004W01 05N18	198	CR	100HA1A			ND			0000 2359	
2034	440.00			DNK ARHUS	DNK	010E13 56N10	398	CO	100HA1A			ND			0000 2359	
2563	440.00			EGY PORT SAID RADIO	EGY	032E18 31N19	498	CP	100HA1A			ND			0400 2200	
1819	440.00			F BREST	F	004W19 48N26	500	CO	304HF1B			ND			0000 2359	
1995	440.00			GRC PIRAEUS	GRC	023E40 37N58	368	CO	100HA1A			ND			0000 2359	
646	440.00			I ANCONA	I	013E31 43N37	98	CO	304HF1B			ND			0000 2359	
1600	440.00			MDG TOAMASINA	MDG	049E24 18S08	498	CP	100HA1A			ND			0000 2359	
1923	440.00			MRC DAKHLA	MRC	015W56 23N42	398	CP	304HF1B			ND			0000 2359	
1928	440.00			MRC TANGER-RADIO	MRC	005W51 35N44	398	CP	100HA1A			ND			0000 2359	
2580	440.00			SRL FTN	SRL	013W15 08N29	298	CP	304HF1B			ND			0000 2359	
2924	440.00			TGO LOME RADIO	TGO	001E30 06N36	109	CP	304HF1B			ND			0000 2359	
2410	440.00			TUN TABARKA RADIO 2 MDN	TUN	006E25 36N57	500	CO	100HA1A			ND			0600 1900	
1054	440.00			URS BERDIANSK	UKR	036E48 46N47	198	CP	100HA1A			ND			0000 2359	
1050	440.00			URS GENITCHESK	UKR	034E48 46N12	198	CP	100HA1A			ND			0000 2359	
1177	440.00			URS ASTRAKHAN	URS	047E42 46N55	348	CP	304HF1B			ND			0000 2359	
1178	440.00			URS ASTRAKHAN	URS	047E42 46N55	350	CP	304HF1B			ND			0000 2359	
1274	440.00			URS ASTRAKHAN	URS	047E42 46N55	200	CO	100HA1A			ND			0000 2359	
1275	440.00			URS ASTRAKHAN	URS	047E42 46N55	200	CO	304HF1B			ND			0000 2359	
1116	440.00			URS BATUMI	URS	041E19 41N39	200	CO	304HF1B			ND			0000 2359	
1117	440.00			URS BATUMI	URS	041E19 41N39	198	CO	304HF1B			ND			0000 2359	
1262	440.00			URS KRASNOVODSK	URS	052E57 40N00	198	CO	304HF1B			ND			0000 2359	
1263	440.00			URS KRASNOVODSK	URS	052E57 40N00	200	CO	304HF1B			ND			0000 2359	
1544	440.00			URS TALLIN	URS	024E46 59N24	350	CP	304HF1B			ND			0000 2359	
1545	440.00			URS TALLIN	URS	024E46 59N24	200	CP	304HF1B			ND			0000 2359	
2290	440.00			ZAI BANANA RADIO	ZAI	012E18 05S53	500	CP	100HA1A			ND			0600 2100	
1022	440.40			URS RENI	UKR	028E18 45N29	198	CO	304HF1B			ND			0000 2359	
2103	440.50			ALG ALGER RADIO	ALG	003E18 36N40	98	CP	304HF1B			ND			0000 2359	
2123	440.50			ALG ORAN RADIO	ALG	000W08 35N46	98	CP	304HF1B			ND			0000 2359	
28	440.50			BHR BAHRAIN	BHR	050E28 26N09	500	CP	304HF1B			ND			0000 2359	
1971	440.50			BUL BOURGAS RADIO	BUL	027E29 42N30	98	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2778	440.50		CME	DOUALA	CME	009E42 04N02	98	CP	304HF1B			ND			0000 2359	
2855	440.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2773	440.50		COM	DZAOUDZI RADIO	COM	045E18 12S47	498	CP	100HA1A			ND			0400 1700	
2784	440.50		CPV	MINDELO	CPV	024W59 16N53	98	CP	304HF1B			ND			0000 2359	
2477	440.50		CTI	S. PEDRO PORT	CTI	006W37 04N44	198	CR	100HA1A			ND			0000 2359	
2708	440.50		E	LACORUNA	E	008W24 43N20	498	CP	100HA1A			ND			0000 2359	
1816	440.50		F	S DENIS	REU	055E36 20S54	500	CP	304HF1B			ND			0000 2359	
81	440.50		G	ILFRACOMBE RADIO	G	004W07 51N11	159	CP	100HA1A			ND			0000 2359	
2828	440.50		GMB	BANJUL	GMB	016W50 13N16	500	CP	100HA1A			ND			0700 1900	
2002	440.50		GRC	ATHINAI	GRC	023E53 38N00	200	CP	304HF1B			ND			0000 2359	
639	440.50		I	ROMA	I	012E31 41N48	500	CP	100HA1A			ND			0000 2359	
2615	440.50		KEN	MOMBASA RADIO	KEN	039E44 03S58	200	CP	304HF1B			ND			0000 2359	
1657	440.50		NOR	BERGEN	NOR	005E22 60N25	368	CP	100HA1A			ND			0000 2359	
2253	440.50		TGO	LOME RADIO	TGO	001E36 06N15	500	CP	100HA1A			ND			0000 2359	
967	440.50		URS	NIKOLAEV	UKR	032E00 46N57	200	CO	304HF1B			ND			0000 2359	
968	440.50		URS	NIKOLAEV	UKR	032E00 46N57	198	CO	304HF1B			ND			0000 2359	
1430	440.50		URS	KALININGRAD	URS	020E30 54N45	350	CP	304HF1B			ND			0000 2359	
1431	440.50		URS	KALININGRAD	URS	020E30 54N45	348	CP	304HF1B			ND			0000 2359	
1146	440.50		URS	NOVOROSSIISK	URS	037E42 44N42	350	CO	304HF1B			ND			0000 2359	
1147	440.50		URS	NOVOROSSIISK	URS	037E42 44N42	98	CO	304HF1B			ND			0000 2359	
2375	441.00		AGL	LUANDA	AGL	013E14 08S47	498	CP	304HF1B			ND			0000 2359	
2156	441.00		ALG	BEJAIA RADIO	ALG	005E05 36N45	98	CP	304HF1B			ND			0000 2359	
2782	441.00		CPV	MINDELO	CPV	024W59 16N53	500	CP	304HF1B			ND			0000 2359	
339	441.00		DDR	RUEGEN	DDR	013E37 54N35	98	CP	304HF1B			ND			0000 2359	
492	441.00		E	CADIZ	E	006W12 36N15	500	CO	100HA1A			ND			0000 2359	
83	441.00		G	NITON RADIO	G	001W18 50N35	159	CP	100HA1A			ND			0000 2359	
94	441.00		G	STONEHAVEN RADIO	G	002W13 56N57	238	CP	304HF1B			ND			0000 2359	
656	441.00		I	ANCONA	I	013E28 43N36	98	CP	304HF1B			ND			0000 2359	
2911	441.00		IRQ	BASRAH	IRQ	047E47 30N33	98	CV	304HF1B			ND			0000 2359	
2853	441.00		LBR	MONROVIA	LBR	010W48 06N18	398	CP	100HA1A			ND			0800 2300	
2261	441.00		MAU	MAURITIUS RADIO	MAU	057E30 20S20	200	CP	304HF1B			ND			0000 2359	
1596	441.00		MDG	MANAKARA	MDG	048E00 22S08	248	CP	100HA1A			ND			0000 2359	
1588	441.00		MLT	MALTA RADIO	MLT	014E24 35N52	500	CP	304HF1B			ND			0000 2359	
2453	441.00		ROU	SULINA	ROU	029E39 45N09	500	CP	100HA1A			ND			0000 2359	
2082	441.00		STP	S TOME RADIO	STP	006E44 00N21	398	CP	100HA1A			ND			0000 2359	
2489	441.00		TUR	ISKENDERUN	TUR	036E07 36N37	248	CP	304HF1B			ND			0000 2359	
1477	441.00		URS	BELOMORSK	URS	034E41 64N36	198	CO	304HF1B			ND			0000 2359	
1448	441.00		URS	KINGISEPP	URS	022E33 58N15	200	CO	304HF1B			ND			0000 2359	
1456	441.00		URS	KINGISEPP	URS	022E33 58N15	198	CO	100HA1A			ND			0000 2359	
1459	441.00		URS	KINGISEPP	URS	022E33 58N15	200	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1460	441.00	URS		KINGISEPP	URS	022E33 58N15	200	CO	100HA1A			ND			0000 2359	
1442	441.00	URS		NARVA-IESSU	URS	028E12 59N22	200	CO	304HF1B			ND			0000 2359	
1443	441.00	URS		NARVA-IESSU	URS	028E12 59N22	198	CO	100HA1A			ND			0000 2359	
1465	441.00	URS		PIARNU	URS	024E33 58N23	200	CO	304HF1B			ND			0000 2359	
1466	441.00	URS		PIARNU	URS	024E33 58N23	198	CO	100HA1A			ND			0000 2359	
2104	441.50	ALG		ALGER RADIO	ALG	003E18 36N40	500	CP	100HA1A			ND			0000 2359	
2842	441.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	304HF1B			ND			0000 2359	
500	441.50	E		FERROL	E	008W16 43N28	500	CO	100HA1A			ND			0000 2359	
1813	441.50	F		DZAOUDZI	MYT	045E17 12S48	398	CP	304HF1B			ND			0000 2359	
659	441.50	I		AUGUSTA	I	015E13 37N13	98	CP	304HF1B			ND			0000 2359	
896	441.50	IRQ		BASRAH	IRQ	047E47 30N33	98	CR	304HF1B			ND			0000 2359	
2282	441.50	ISR		HAIFA RADIO	ISR	035E00 32N48	500	CP	304HF1B			ND			0000 2359	
2617	441.50	KEN		MOMBASA RADIO	KEN	039E44 03S58	500	CP	304HF1B			ND			0000 2359	
2839	441.50	LBR		GR BASSA	LBR	010W21 06N07	398	CP	100HA1A			ND			0800 2300	
2829	441.50	NIG		LAGOS	NIG	003E27 06N27	500	CP	100HA1A			ND			0600 2359	
2310	441.50	POL		KOLOBRZEG	POL	015E34 54N11	498	CR	100HA1A			ND			0000 2359	
2449	441.50	ROU		TULCEA	ROU	028E50 45N12	500	CP	100HA1A			ND			0000 2359	
842	441.50	YUG		SPLIT	YUG	016E29 43N30	298	CP	100HA1A			ND			0000 2359	
2652	442.00	BEN		COTONOU	BEN	002E28 06N22	200	CP	304HF1B			ND			0000 2359	
1959	442.00	BUL		VARNA RADIO	BUL	027E46 43N04	200	CO	304HF1B			ND			0000 2359	
2772	442.00	CME		LIMBE	CME	009E22 04N02	398	OT	304HF1B			ND			0000 2359	
2472	442.00	CTI		ABIDJAN SANTE MARINE	CTI	004W01 05N18	198	CR	304HF1B			ND			0000 2359	
85	442.00	G		PORTPATRICK RADIO	G	005W07 54N51	238	CP	100HA1A			ND			0000 2359	
2003	442.00	GRC		ATHINAI	GRC	023E53 38N00	98	CP	304HF1B			ND			0000 2359	
2815	442.00	GUI		CONAKRY	GUI	013W43 09N31	298	CP	100HA1A			ND			0000 2359	
2538	442.00	I		MAZARA VALLO	I	012E34 37N38	500	CP	100HA1A			ND			0000 2359	
890	442.00	IRQ		BASRAH	IRQ	047E47 30N33	500	CR	100HA1A			ND			0000 2359	
2836	442.00	LBN		BEYROUTH KHALD	LBN	035E29 33N48	498	CP	100HA1A			ND			0400 2200	
1598	442.00	MDG		MORONDAVA	MDG	044E18 20S17	498	CP	100HA1A			ND			0000 2359	
1624	442.00	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	498	CP	304HF1B			ND			0000 2359	
1925	442.00	MRC		NADOR	MRC	002W56 35N10	298	CP	304HF1B			ND			0000 2359	
1660	442.00	NOR		BODOE	NOR	014E23 67N16	368	CO	304HF1B			ND			0000 2359	
1669	442.00	NOR		FARSUND	NOR	006E45 58N04	368	CP	100HA1A			ND			0000 2359	
1737	442.00	POR		APULIA	POR	008W45 41N29	348	CO	304HF1B			ND			0000 2359	
1042	442.00	URS		KERTCH	UKR	036E28 45N22	200	CO	100HA1A			ND			0000 2359	
1043	442.00	URS		KERTCH	UKR	036E28 45N22	200	CO	304HF1B			ND			0000 2359	
1046	442.00	URS		KERTCH	UKR	036E28 45N22	200	CO	304HF1B			ND			0000 2359	
1047	442.00	URS		KERTCH	UKR	036E28 45N22	198	CO	100HA1A			ND			0000 2359	
1294	442.00	URS		ATCHUEVO	URS	037E27 45N43	200	CO	304HF1B			ND			0000 2359	
1295	442.00	URS		ATCHUEVO	URS	037E27 45N43	198	CO	100HA1A			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1203	442.00	URS		AZOV	URS	039E25 45N53	198	CO	100HA1A			ND			0000 2359	
1204	442.00	URS		AZOV	URS	039E25 45N53	200	CO	304HF1B			ND			0000 2359	
1079	442.00	URS		GURIEV	URS	051E55 47N03	200	CO	304HF1B			ND			0000 2359	
1080	442.00	URS		GURIEV	URS	051E55 47N03	200	CO	304HF1B			ND			0000 2359	
1266	442.00	URS		KRASNOVODSK	URS	052E57 40N00	198	CP	304HF1B			ND			0000 2359	
1267	442.00	URS		KRASNOVODSK	URS	052E57 40N00	200	CP	304HF1B			ND			0000 2359	
1218	442.00	URS		MAKHATCHKALA	URS	047E30 42N59	200	OT	304HF1B			ND			0000 2359	
1219	442.00	URS		MAKHATCHKALA	URS	047E30 42N59	350	OT	304HF1B			ND			0000 2359	
1393	442.00	URS		RIGA	URS	024E05 56N57	350	CP	304HF1B			ND			0000 2359	
1394	442.00	URS		RIGA	URS	024E05 56N57	348	CP	304HF1B			ND			0000 2359	
2379	442.50	AGL		LUANDA	AGL	013E14 08S47	98	CP	304HF1B			ND			0000 2359	
2153	442.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	500	CP	304HF1B			ND			0000 2359	
2667	442.50	CME		KRIBI	CME	009E43 02N53	200	CP	304HF1B			ND			0600 1900	
524	442.50	E		TENERIFE RADIO	CNR	016W20 28N25	500	CP	304HF1B			ND			0000 2359	
475	442.50	E		FINISTERRE RADIO	E	009W16 42N54	500	CP	304HF1B			ND			0000 2359	
2803	442.50	EGY		ALEXANDRIA RADIO	EGY	029E51 31N11	200	CP	304HF1B			ND			0000 2359	
1826	442.50	F		BOULOGNE	F	001E38 50N43	500	CP	304HF1B			ND			0000 2359	
628	442.50	I		BARI	I	017E25 40N26	98	CP	304HF1B			ND			0000 2359	
897	442.50	IRQ		BASRAH	IRQ	047E47 30N33	98	CR	304HF1B			ND			0000 2359	
2852	442.50	LBR		HARPER C PALMA	LBR	007W44 04N22	398	CP	304HF1B			ND			0800 2300	
1615	442.50	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	498	CP	304HF1B			ND			0000 2359	
1614	442.50	MOZ		NACALA RADIO	MOZ	040E39 14S34	498	CP	100HA1A			ND			0000 2359	
2373	442.50	OMA		MUSCAT	OMA	058E30 23N37	398	CP	304HF1B			ND			0000 2359	
382	442.50	S		STOCKHOLM RADIO	S	018E43 59N17	498	CP	304HF1B			ND			0000 2359	
2492	442.50	TUR		ANTALYA	TUR	030E42 36N53	248	CP	304HF1B			ND			0000 2359	
992	442.50	URS		OTCHAKOV	UKR	031E30 46N37	200	CO	304HF1B			ND			0000 2359	
993	442.50	URS		OTCHAKOV	UKR	031E30 46N37	98	CO	304HF1B			ND			0000 2359	
1315	442.50	URS		MURMANSK	URS	033E10 68N58	498	CP	304HF1B			ND			0000 2359	
1316	442.50	URS		MURMANSK	URS	033E10 68N58	500	CP	304HF1B			ND			0000 2359	
1132	442.50	URS		SOTCHI	URS	039E45 43N36	200	CO	304HF1B			ND			0000 2359	
1133	442.50	URS		SOTCHI	URS	039E45 43N36	198	CO	100HA1A			ND			0000 2359	
845	442.50	YUG		KOPER	YUG	013E44 45N33	248	CP	100HA1A			ND			0000 2359	
2109	443.00	ALG		ALGER RADIO	ALG	003E18 36N40	98	CP	304HF1B			ND			0000 2359	
2126	443.00	ALG		ORAN RADIO	ALG	000W08 35N46	98	CP	304HF1B			ND			0000 2359	
2840	443.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	100HA1A			ND			0000 2359	
2462	443.00	CTI		ABIDJAN RADIO	CTI	003W58 05N21	298	CP	304HF1B			ND			0000 2359	
908	443.00	CYP		CYPRUS RADIO	CYP	033E17 35N03	498	CP	100HA1A			ND			0000 2359	
511	443.00	E		LAS PALMAS	CNR	015W26 28N09	500	CO	304HF1B			ND			0000 2359	
80	443.00	G		HUMBER RADIO	G	000E17 53N20	159	CP	100HA1A			ND			0000 2359	
669	443.00	I		GENOVA	I	008E56 44N25	98	CP	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
891	443.00	IRQ		BASRAH	IRQ	047E47 30N33	500	CR	304HF1B			ND			0000 2359	
1587	443.00	MLT		MALTA RADIO	MLT	014E24 35N52	500	CP	100HA1A			ND			0000 2359	
2276	443.00	MOZ		BEIRA RADIONAVAL	MOZ	034E52 19S50	498	CO	100HA1A			ND			0000 2359	
2831	443.00	NIG		PT HARCOURT	NIG	007E01 04N51	479	OT	100HA1A			ND			0500 1700	
1659	443.00	NOR		BODOE	NOR	014E23 67N16	368	CO	100HA1A			ND			0000 2359	
587	443.00	POR		LISBOA	POR	009W14 38N44	200	CP	304HF1B			ND			0000 2359	
956	443.00	URS		SEVASTOPOL	UKR	033E32 44N34	350	CO	304HF1B			ND			0000 2359	
957	443.00	URS		SEVASTOPOL	UKR	033E32 44N34	348	CO	100HA1A			ND			0000 2359	
1223	443.00	URS		BAKU	URS	049E45 40N20	348	CP	304HF1B			ND			0000 2359	
1224	443.00	URS		BAKU	URS	049E45 40N20	350	CP	304HF1B			ND			0000 2359	
1081	443.00	URS		GURIEV	URS	051E55 47N03	198	CO	304HF1B			ND			0000 2359	
1106	443.00	URS		KALININGRAD	URS	020E30 54N45	348	OT	100HA1A			ND			0000 2359	
1324	443.00	URS		MURMANSK	URS	033E10 68N58	98	OT	304HF1B			ND			0000 2359	
1325	443.00	URS		MURMANSK	URS	033E10 68N58	350	OT	304HF1B			ND			0000 2359	
2106	443.50	ALG		ALGER RADIO	ALG	003E18 36N40	98	CP	304HF1B			ND			0000 2359	
2646	443.50	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2677	443.50	CME		DOUALA	CME	009E43 04N01	200	CP	304HF1B			ND			0000 2359	
2463	443.50	CTI		ABIDJAN RADIO	CTI	003W58 05N21	298	CP	304HF1B			ND			0000 2359	
2037	443.50	DNK		FREDERIKSHAVN	DNK	010E35 57N25	398	CO	100HA1A			ND			0000 2359	
493	443.50	E		CADIZ	E	006W12 36N15	500	CO	304HF1B			ND			0000 2359	
1830	443.50	F		LE CONQUET	F	004W44 48N20	500	CP	304HF1B			ND			0000 2359	
2007	443.50	GRC		LIMNOS	GRC	025E11 39N54	368	CP	304HF1B			ND			0000 2359	
631	443.50	I		CAGLIARI	I	009E07 39N15	200	CP	304HF1B			ND			0000 2359	
668	443.50	I		GENOVA	I	008E56 44N25	200	CP	304HF1B			ND			0000 2359	
616	443.50	I		TORRE DEL GRECO	I	014E22 40N46	79	CV	100HA1A			ND			0800 1700	
2910	443.50	IRQ		BASRAH	IRQ	047E47 30N33	98	CV	304HF1B			ND			0000 2359	
1593	443.50	MDG		MAHAJANGA	MDG	046E18 15S42	498	CP	100HA1A			ND			0000 2359	
1613	443.50	MOZ		BEIRA RADIO	MOZ	034E54 19S51	498	CP	100HA1A			ND			0000 2359	
1661	443.50	NOR		HAMMERFEST	NOR	023E41 70N41	368	CP	100HA1A			ND			0000 2359	
980	443.50	URS		KHERSON	UKR	032E34 46N39	200	OT	304HF1B			ND			0000 2359	
981	443.50	URS		KHERSON	UKR	032E34 46N39	198	OT	304HF1B			ND			0000 2359	
1480	443.50	URS		PERTOMINSK	URS	038E27 64N48	200	CO	304HF1B			ND			0000 2359	
1481	443.50	URS		PERTOMINSK	URS	038E27 64N48	198	CO	304HF1B			ND			0000 2359	
2177	444.00	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	98	CP	304HF1B			ND			0000 2359	
1904	444.00	ARS		DAMMAMRADIO	ARS	050E06 26N26	500	CP	100HA1A			ND			0000 2359	
2649	444.00	BEN		COTONOU	BEN	002E28 06N22	500	CP	304HF1B			ND			0000 2359	
2661	444.00	CME		CAMPO	CME	009E51 02N22	200	CP	304HF1B			ND			0000 2359	
2478	444.00	CTI		S. PEDRO PORT	CTI	006W37 04N44	198	CR	304HF1B			ND			0000 2359	
2552	444.00	EGY		PORT SAID RADIO	EGY	032E18 31N19	398	CP	304HF1B			ND			0000 2359	
1828	444.00	F		BOULOGNE	F	001E38 50N43	500	CP	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
629	444.00		I	CAGLIARI	I	009E07 39N15	500	CP	100HA1A			ND			0000 2359	
1612	444.00		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	498	CP	100HA1A			ND			0000 2359	
2340	444.00		POL	SZCZECIN	POL	014E35 53N28	200	CP	304HF1B			ND			0000 2359	
1738	444.00		POR	SAGRES	POR	008W57 37N00	348	CO	304HF1B			ND			0000 2359	
2446	444.00		ROU	MANGALIA	ROU	028E35 43N48	498	CP	304HF1B			ND			0000 2359	
374	444.00		S	HAERNOESAND RADIO	S	018E08 62N43	498	CP	100HA1A			ND			0000 2359	
2145	444.50		ALG	TENES RADIO	ALG	001E18 36N32	200	CP	304HF1B			ND			0000 2359	
2656	444.50		BEN	COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2673	444.50		CME	GRAND BATANGA	CME	009E52 02N43	398	CR	100HA1A			ND			0000 2359	
2847	444.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2686	444.50		E	VIGO	E	008W49 42N10	498	CP	100HA1A			ND			0000 2359	
2807	444.50		EGY	KOSSEIR RADIO	EGY	034E17 26N06	500	CP	304HF1B			ND			0400 2200	
429	444.50		HOL	SCHEVENINGEN	HOL	004E15 52N06	498	CP	304HF1B			ND			0000 2359	
662	444.50		I	BARI	I	017E25 40N26	98	CP	304HF1B			ND			0000 2359	
666	444.50		I	CAGLIARI	I	009E07 39N15	348	CP	304HF1B			ND			0000 2359	
894	444.50		IRQ	BASRAH	IRQ	047E47 30N33	98	CR	304HF1B			ND			0000 2359	
2921	444.50		LBY	BENGHAZI RADIO	LBY	020E04 32N07	448	CP	100HA1A			ND			0000 2359	
1594	444.50		MDG	MAHAJANGA	MDG	046E18 15S42	498	CP	304HF1B			ND			0000 2359	
1616	444.50		MOZ	BEIRA RADIO	MOZ	034E54 19S51	498	CP	304HF1B			ND			0000 2359	
1666	444.50		NOR	ROERVIK	NOR	011E12 64N50	179	CP	304HF1B			ND			0000 2359	
2909	444.50		OMA	SALALAH	OMA	054E06 17N01	398	CR	304HF1B			ND			0000 2359	
604	444.50		POR	HORTA	AZR	028W38 38N32	500	CO	100HA1A			ND			0000 2359	
609	444.50		POR	PORTO SANTO	MDR	016W20 33N05	500	CO	100HA1A			ND			0000 2359	
2434	444.50		ROU	AGIGEA	ROU	028E39 44N06	500	CP	100HA1A			ND			0000 2359	
1176	444.50		URS	ROSTOV-NA-DONU	URS	039E40 47N16	198	CO	100HA1A			ND			0000 2359	
1191	444.50		URS	ROSTOV-NA-DONU	URS	039E40 47N16	200	CO	304HF1B			ND			0000 2359	
1414	444.50		URS	VENTSPILS	URS	021E32 57N24	348	CP	304HF1B			ND			0000 2359	
1415	444.50		URS	VENTSPILS	URS	021E32 57N24	350	CP	304HF1B			ND			0000 2359	
1958	445.00		BUL	VARNA RADIO	BUL	027E46 43N04	98	CO	304HF1B			ND			0000 2359	
2663	445.00		CME	CAMPO	CME	009E51 02N22	398	CO	304HF1B			ND			0000 2359	
2843	445.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	200	CP	304HF1B			ND			0000 2359	
340	445.00		DDR	RUEGEN	DDR	013E37 54N35	500	CP	100HA1A			ND			0000 2359	
485	445.00		E	TARIFA RADIO	E	005W33 36N03	500	CP	100HA1A			ND			0000 2359	
1822	445.00		F	CHERBOURG	F	001W37 49N35	290	CO	304HF1B			ND			0000 2359	
1996	445.00		GRC	PIRAEUS	GRC	023E40 37N58	368	CO	304HF1B			ND			0000 2359	
612	445.00		I	CAMOGLI	I	009E05 44N23	79	CV	100HA1A			ND			0800 1700	
1601	445.00		MDG	TOAMASINA	MDG	049E24 18S08	498	CP	304HF1B			ND			0000 2359	
17	445.00		QAT	QGP C RADIO	QAT	051E32 25N17	500	CV	100HA1A			ND			0000 2359	
2405	445.00		TUN	BIZERTE RADIO 2 MDN	TUN	009E53 37N16	500	CO	100HA1A			ND			0600 1900	
964	445.00		URS	EVPATORIIA	UKR	033E18 45N13	200	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
965	445.00	URS		EVPATORIIA	UKR	033E18 45N13	198	CO	304HF1B			ND			0000 2359	
1610	445.50	ALB		DURRES PT RADIO	ALB	019E26 41N27	348	CP	304HF1B			ND			0000 2359	
2147	445.50	ALG		TENES RADIO	ALG	001E18 36N32	98	CP	304HF1B			ND			0000 2359	
2854	445.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2026	445.50	DNK		LYNGBY	DNK	011E25 55N50	348	CP	304HF1B			ND			0000 2359	
2687	445.50	E		VIGO	E	008W49 42N10	498	CP	304HF1B			ND			0000 2359	
1823	445.50	F		TOULON	F	006E04 43N08	500	CO	304HF1B			ND			0000 2359	
95	445.50	G		WICK RADIO	G	003W06 58N26	318	CP	304HF1B			ND			0000 2359	
2811	445.50	GNE		BASILE	GNE	008E49 03N41	500	CP	100HA1A			ND			0000 2359	
2541	445.50	I		MAZARA VALLO	I	012E34 37N38	98	CP	304HF1B			ND			0000 2359	
1926	445.50	MRC		ESSAOUIRA	MRC	009W46 31N38	348	CP	100HA1A			ND			0000 2359	
24	445.50	QAT		DOHA	QAT	051E35 25N45	98	CP	304HF1B			ND			0000 2359	
966	445.50	URS		EVPATORIIA	UKR	033E18 45N13	198	CP	100HA1A			ND			0000 2359	
1543	445.50	URS		TALLIN	URS	024E46 59N24	348	CO	304HF1B			ND			0000 2359	
1907	446.00	ARS		JEDDAHRADIO	ARS	039E10 21N23	500	CP	304HF1B			ND			0000 2359	
2645	446.00	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2675	446.00	CME		DOUALA	CME	009E43 04N01	398	OT	304HF1B			ND			0000 2359	
1759	446.00	D		KIEL RADIO	D	010E08 54N26	500	CP	100HA1A			ND			0000 2359	
2697	446.00	E		MELILLA	E	002W56 35N18	500	CP	100HA1A			ND			0000 2359	
2014	446.00	GRC		HERAKLION	GRC	025E45 35N19	368	CP	304HF1B			ND			0000 2359	
625	446.00	I		AUGUSTA	I	015E13 37N13	98	CP	304HF1B			ND			0000 2359	
536	446.00	IRL		HAULBOWLINE	IRL	008W18 51N50	498	CO	100HA1A			ND			0000 2359	
2530	446.00	KWT		AHMADI	KWT	048E04 29N06	500	CV	304HF1B			ND			0300 2100	
2255	446.00	MCO		MONACO RADIO	MCO	007E25 43N43	498	CP	100HA1A			ND			0000 2359	
2450	446.00	ROU		TULCEA	ROU	028E50 45N12	500	CP	304HF1B			ND			0000 2359	
1336	446.00	URS		ARKHANGHELSK	URS	040E37 64N36	500	CP	304HF1B			ND			0000 2359	
1337	446.00	URS		ARKHANGHELSK	URS	040E37 64N36	498	CP	304HF1B			ND			0000 2359	
2655	446.50	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2522	446.50	BHR		HAMALA	BHR	050E28 26N09	500	CP	304HF1B			ND			0000 2359	
2670	446.50	CME		KRIBI	CME	009E43 02N53	398	OT	100HA1A			ND			0000 2359	
2849	446.50	COG		POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2691	446.50	E		LAS PALMAS RADIO	CNR	015W36 27N45	500	CP	304HF1B			ND			0000 2359	
615	446.50	I		PESARO	I	012E55 43N54	79	CV	100HA1A			ND			0800 1700	
583	446.50	POR		MONSANTO	POR	009W11 38N44	498	CO	304HF1B			ND			0000 2359	
2438	446.50	ROU		CONSTANTA	ROU	028E37 44N06	500	CP	100HA1A			ND			0000 2359	
2404	446.50	TUN		BIZERTE RADIO	TUN	009E53 37N16	500	CP	100HA1A			ND			0600 1900	
1122	446.50	URS		BATUMI	URS	041E19 41N39	348	CP	100HA1A			ND			0000 2359	
1242	446.50	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	100HA1A			ND			0000 2359	
1243	446.50	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	304HF1B			ND			0000 2359	
1251	446.50	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1252	446.50	URS		FORT SHEVTCHENKO	URS	050E18 44N30	198	CP	100HA1A			ND			0000 2359	
1403	446.50	URS		LIEPAIA	URS	021E02 56N43	348	CO	100HA1A			ND			0000 2359	
1536	446.50	URS		MEDVEJIEGORSK	URS	034E26 62N56	348	CO	304HF1B			ND			0000 2359	
1537	446.50	URS		MEDVEJIEGORSK	URS	034E26 62N56	350	CO	304HF1B			ND			0000 2359	
2380	447.00	AGL		NAMIBE	AGL	012E09 15S11	498	CP	100HA1A			ND			0000 2359	
2120	447.00	ALG		ORAN RADIO	ALG	000W08 35N46	500	CP	100HA1A			ND			0000 2359	
2672	447.00	CME		GRAND BATANGA	CME	009E52 02N43	398	CP	304HF1B			ND			0700 2359	
2856	447.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	98	CP	304HF1B			ND			0000 2359	
2036	447.00	DNK		STEVNS	DNK	012E25 55N16	398	CO	100HA1A			ND			0000 2359	
89	447.00	G		HEBRIDES RADIO	G	007W02 58N14	398	CP	304HF1B			ND			0000 2359	
84	447.00	G		NORTH FORELAND RADIO	G	001E25 51N22	238	CP	100HA1A			ND			0000 2359	
2001	447.00	GRC		ATHINAI	GRC	023E53 38N00	368	CP	304HF1B			ND			0000 2359	
632	447.00	I		GENOVA	I	008E56 44N25	500	CP	100HA1A			ND			0000 2359	
2527	447.00	KWT		RAS ALZOOR	KWT	048E56 28N28	500	CV	304HF1B			ND			0300 2100	
932	447.00	URS		FEODOSIIA	UKR	035E20 45N02	200	CO	304HF1B			ND			0000 2359	
933	447.00	URS		FEODOSIIA	UKR	035E20 45N02	198	CO	304HF1B			ND			0000 2359	
1471	447.00	URS		BELOMORSK	URS	034E41 64N36	200	CO	304HF1B			ND			0000 2359	
1472	447.00	URS		BELOMORSK	URS	034E41 64N36	198	CO	304HF1B			ND			0000 2359	
1512	447.00	URS		LENINGRAD	URS	030E21 59N59	198	CO	304HF1B			ND			0000 2359	
2374	447.50	AGL		LUANDA	AGL	013E14 08S47	498	CP	100HA1A			ND			0000 2359	
2108	447.50	ALG		ALGER RADIO	ALG	003E18 36N40	200	CP	304HF1B			ND			0000 2359	
2178	447.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	98	CP	304HF1B			ND			0000 2359	
2621	447.50	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
1970	447.50	BUL		BOURGAS RADIO	BUL	027E29 42N30	200	CO	304HF1B			ND			0000 2359	
78	447.50	G		ANGLESEY RADIO	G	004W18 53N24	159	CP	100HA1A			ND			0000 2359	
2812	447.50	GNE		MBINI	GNE	009E38 01N34	500	CP	100HA1A			ND			0000 2359	
622	447.50	I		ANCONA	I	013E28 43N36	98	CP	304HF1B			ND			0000 2359	
670	447.50	I		GENOVA	I	008E56 44N25	98	CP	304HF1B			ND			0000 2359	
651	447.50	I		PALOMBARA	I	015E08 37N10	379	CO	304HF1B			ND			0000 2359	
1675	447.50	NOR		ROGALAND	NOR	005E34 58N48	368	CP	100HA1A			ND			0000 2359	
1741	447.50	POR		MONSANTO	POR	009W11 38N44	200	CO	304HF1B			ND			0000 2359	
23	447.50	QAT		DOHA	QAT	051E35 25N45	200	CP	304HF1B			ND			0000 2359	
934	447.50	URS		FEODOSIIA	UKR	035E20 45N02	198	CP	100HA1A			ND			0000 2359	
1534	447.50	URS		MEDVEJIEGORSK	URS	034E26 62N56	350	CO	304HF1B			ND			0000 2359	
1535	447.50	URS		MEDVEJIEGORSK	URS	034E26 62N56	348	CO	100HA1A			ND			0000 2359	
1413	447.50	URS		VENTSPILS	URS	021E32 57N24	348	CP	100HA1A			ND			0000 2359	
2169	448.00	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	98	CP	304HF1B			ND			0000 2359	
2144	448.00	ALG		TENES RADIO	ALG	001E18 36N32	98	CP	304HF1B			ND			0000 2359	
1912	448.00	ARS		JEDDAHRADIO	ARS	039E10 21N23	500	CP	304HF1B			ND			0000 2359	
1916	448.00	ARS		RAS TANURA RADIO	ARS	050E07 26N18	500	CV	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2641	448.00	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
1835	448.00	F		MARSEILLE	F	005E21 43N19	500	CP	304HF1B			ND			0000 2359	
82	448.00	G		LANDS END RADIO	G	005W40 50N07	318	CP	100HA1A			ND			0000 2359	
2227	448.00	GAB		LIBREVILLE	GAB	009E26 00N25	498	CP	304HF1B			ND			0600 1800	
2022	448.00	GRC		SPATA ATTIKIS	GRC	023E55 37N58	200	CO	304HF1B			ND			0000 2359	
1671	448.00	NOR		AALESUND	NOR	006E12 62N28	179	CP	304HF1B			ND			0000 2359	
2371	448.00	OMA		SALALAH	OMA	054E06 17N01	398	CP	304HF1B			ND			0000 2359	
584	448.00	POR		APULIA	POR	008W45 41N29	348	CO	304HF1B			ND			0000 2359	
385	448.00	S		STOCKHOLM RADIO	S	014E19 55N29	498	CP	304HF1B			ND			0000 2359	
2758	448.00	TUN		SFAX RADIO	TUN	010E44 34N44	298	CP	304HF1B			ND			0600 2359	
1063	448.00	URS		JDANOV	UKR	037E31 47N08	350	CO	304HF1B			ND			0000 2359	
1064	448.00	URS		JDANOV	UKR	037E31 47N08	348	CO	304HF1B			ND			0000 2359	
1326	448.00	URS		ARKHANGHELSK	URS	040E37 64N36	350	CO	304HF1B			ND			0000 2359	
1327	448.00	URS		ARKHANGHELSK	URS	040E37 64N36	98	CO	304HF1B			ND			0000 2359	
1510	448.00	URS		LENINGRAD	URS	030E21 59N59	198	CO	304HF1B			ND			0000 2359	
1511	448.00	URS		LENINGRAD	URS	030E21 59N59	200	CO	304HF1B			ND			0000 2359	
1216	448.00	URS		MAKHATCHKALA	URS	047E30 42N59	348	CO	304HF1B			ND			0000 2359	
1217	448.00	URS		MAKHATCHKALA	URS	047E30 42N59	350	CO	304HF1B			ND			0000 2359	
849	448.00	YUG		DUBROVNIK	YUG	018E07 42N38	198	CP	304HF1B			ND			0000 2359	
2140	448.50	ALG		TENES RADIO	ALG	001E18 36N32	500	CP	100HA1A			ND			0000 2359	
2225	448.50	BEL		ANTWERPEN RADIO	BEL	004E19 51N16	498	CP	304HF1B			ND			0000 2359	
2644	448.50	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2676	448.50	CME		DOUALA	CME	009E43 04N01	398	CP	304HF1B			ND			0000 2359	
529	448.50	E		TENERIFE RADIO	CNR	016W20 28N25	500	CP	304HF1B			ND			0000 2359	
636	448.50	I		NAPOLI	I	014E14 40N50	500	CP	100HA1A			ND			0000 2359	
2529	448.50	KWT		HUBAN	KWT	047E41 29N31	500	CP	304HF1B			ND			0000 2359	
1664	448.50	NOR		TJOEME	NOR	010E25 59N05	179	CP	100HA1A			ND			0000 2359	
2445	448.50	ROU		MANGALIA	ROU	028E35 43N48	498	CP	100HA1A			ND			0000 2359	
1118	448.50	URS		BATUMI	URS	041E19 41N39	350	CO	304HF1B			ND			0000 2359	
1119	448.50	URS		BATUMI	URS	041E19 41N39	200	CO	304HF1B			ND			0000 2359	
1533	448.50	URS		MEDVEJIEGORSK	URS	034E26 62N56	198	CO	304HF1B			ND			0000 2359	
1355	448.50	URS		MEZEN	URS	044E17 65N51	200	CP	304HF1B			ND			0000 2359	
1356	448.50	URS		MEZEN	URS	044E17 65N51	198	CP	304HF1B			ND			0000 2359	
1318	448.50	URS		MURMANSK	URS	033E10 68N58	200	CO	304HF1B			ND			0000 2359	
1319	448.50	URS		MURMANSK	URS	033E10 68N58	350	CO	304HF1B			ND			0000 2359	
1395	448.50	URS		RIGA	URS	024E05 56N57	350	CP	304HF1B			ND			0000 2359	
1396	448.50	URS		RIGA	URS	024E05 56N57	348	CP	100HA1A			ND			0000 2359	
2432	448.50	ZAI		BANANA RADIO	ZAI	012E18 05S53	500	CP	304HF1B			ND			0600 2100	
1914	449.00	ARS		JEDDAHRADIO	ARS	039E10 21N23	500	CP	304HF1B			ND			0000 2359	
2683	449.00	CME		LIMBE	CME	009E22 04N02	200	CO	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2841	449.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	304HF1B			ND			0000 2359	
2029	449.00		DNK	BLAAVAND	DNK	008E07 55N33	348	CP	100HA1A			ND			0000 2359	
459	449.00		E	CABO PENAS RADIO	E	005W51 43N39	500	CP	100HA1A			ND			0000 2359	
2830	449.00		GHA	TEMA	GHA	000W00 05N37	500	CP	100HA1A			ND			0000 2359	
1992	449.00		GRC	ASPROPYRGOS	GRC	023E35 38N02	368	CO	304HF1B			ND			0000 2359	
635	449.00		I	GENOVA	I	008E56 44N25	248	CP	304HF1B			ND			0000 2359	
2533	449.00		KWT	RAS ALZOOR	KWT	048E56 28N28	500	CP	304HF1B			ND			0300 2100	
1927	449.00		MRC	CASABLANCA RADIO	MRC	007W34 33N34	403	CP	100HA1A			ND			0000 2359	
2398	449.00		TUN	SFAX RADIO	TUN	010E44 34N44	500	CP	100HA1A			ND			0600 2359	
2496	449.00		TUR	MERSIN	TUR	034E36 36N49	248	CP	304HF1B			ND			0000 2359	
1276	449.00		URS	ASTRAKHAN	URS	047E42 46N55	98	CO	304HF1B			ND			0000 2359	
1277	449.00		URS	ASTRAKHAN	URS	047E42 46N55	200	CO	304HF1B			ND			0000 2359	
1104	449.00		URS	GELENDJIK	URS	038E06 44N35	348	OT	100HA1A			ND			0000 2359	
1387	449.00		URS	RIGA	URS	024E05 56N57	350	CO	304HF1B			ND			0000 2359	
1388	449.00		URS	RIGA	URS	024E05 56N57	200	CO	304HF1B			ND			0000 2359	
2376	449.50		AGL	LUANDA	AGL	013E14 08S47	498	CP	304HF1B			ND			0000 2359	
2170	449.50		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	500	CP	304HF1B			ND			0000 2359	
31	449.50		BHR	BAHRAIN	BHR	050E28 26N09	200	CP	304HF1B			ND			0000 2359	
2662	449.50		CME	CAMPO	CME	009E51 02N22	398	CP	304HF1B			ND			0700 1900	
518	449.50		E	LAS PALMAS RADIO	CNR	015W36 27N45	500	CP	304HF1B			ND			0000 2359	
2021	449.50		GRC	SPATA ATTIKIS	GRC	023E55 37N58	368	CO	304HF1B			ND			0000 2359	
431	449.50		HOL	OUDDORP	HOL	003E53 51N48	498	CP	304HF1B			ND			0000 2359	
661	449.50		I	AUGUSTA	I	015E13 37N13	98	CP	304HF1B			ND			0000 2359	
647	449.50		I	LA MADDALENA	I	009E20 41N13	379	CO	304HF1B			ND			0000 2359	
2913	449.50		IRQ	BASRAH	IRQ	048E29 29N58	98	CV	304HF1B			ND			0000 2359	
975	449.50		URS	TCHERNOMORSKOE	UKR	032E43 45N30	200	OT	304HF1B			ND			0000 2359	
976	449.50		URS	TCHERNOMORSKOE	UKR	032E43 45N30	198	OT	100HA1A			ND			0000 2359	
1566	449.50		URS	KLAIPEDA	URS	021E12 55N46	350	CO	304HF1B			ND			0000 2359	
1567	449.50		URS	KLAIPEDA	URS	021E12 55N46	348	CO	100HA1A			ND			0000 2359	
1527	449.50		URS	PETROZAVODSK	URS	034E19 61N48	350	OT	304HF1B			ND			0000 2359	
1528	449.50		URS	PETROZAVODSK	URS	034E19 61N48	348	OT	304HF1B			ND			0000 2359	
2154	450.00		ALG	BEJAIA RADIO	ALG	005E05 36N45	185	CP	304HF1B			ND			0000 2359	
2168	450.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	185	CP	100HA1A			ND			0000 2359	
1158	450.00		URS	ANAPA	URS	037E20 44N54	200	CO	304HF1B			ND			0000 2359	
1159	450.00		URS	ANAPA	URS	037E20 44N54	185	CO	100HA1A			ND			0000 2359	
1172	450.00		URS	ANAPA	URS	037E20 44N54	200	OT	100HA1A			ND			0000 2359	
1173	450.00		URS	ANAPA	URS	037E20 44N54	200	OT	304HF1B			ND			0000 2359	
1083	450.00		URS	GURIEV	URS	051E55 47N03	200	CO	304HF1B			ND			0000 2359	
1084	450.00		URS	GURIEV	URS	051E55 47N03	185	CO	100HA1A			ND			0000 2359	
1284	450.00		URS	GURIEV	URS	051E55 47N03	200	CO	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1285	450.00		URS	GURIEV	URS	051E55 47N03	200	CO	100HA1A			ND			0000 2359	
1369	450.00		URS	KANDALAKCHA	URS	032E29 67N10	185	CP	100HA1A			ND			0000 2359	
1370	450.00		URS	KANDALAKCHA	URS	032E29 67N10	200	CP	304HF1B			ND			0000 2359	
1264	450.00		URS	KRASNOVODSK	URS	052E57 40N00	185	CO	100HA1A			ND			0000 2359	
1265	450.00		URS	KRASNOVODSK	URS	052E57 40N00	200	CO	304HF1B			ND			0000 2359	
1208	450.00		URS	MAKHATCHKALA	URS	047E30 42N59	185	CP	100HA1A			ND			0000 2359	
1209	450.00		URS	MAKHATCHKALA	URS	047E30 42N59	350	CP	304HF1B			ND			0000 2359	
1359	450.00		URS	MEZEN	URS	044E17 65N51	200	CO	304HF1B			ND			0000 2359	
1360	450.00		URS	MEZEN	URS	044E17 65N51	185	CO	100HA1A			ND			0000 2359	
1525	450.00		URS	PETROZAVODSK	URS	034E19 61N48	200	CO	304HF1B			ND			0000 2359	
1526	450.00		URS	PETROZAVODSK	URS	034E19 61N48	185	CO	100HA1A			ND			0000 2359	
1540	450.00		URS	TALLIN	URS	024E46 59N24	350	CO	304HF1B			ND			0000 2359	
1541	450.00		URS	TALLIN	URS	024E46 59N24	185	CO	100HA1A			ND			0000 2359	
1071	450.50		URS	BELGOROD-DNESTROVSKY	UKR	030E22 46N11	200	CO	304HF1B			ND			0000 2359	
1072	450.50		URS	BELGOROD-DNESTROVSKY	UKR	030E22 46N11	185	CO	100HA1A			ND			0000 2359	
1065	450.50		URS	JDANOV	UKR	037E31 47N08	350	CP	304HF1B			ND			0000 2359	
1066	450.50		URS	JDANOV	UKR	037E31 47N08	185	CP	100HA1A			ND			0000 2359	
1475	450.50		URS	BELOMORSK	URS	034E41 64N36	200	CO	304HF1B			ND			0000 2359	
1476	450.50		URS	BELOMORSK	URS	034E41 64N36	185	CO	100HA1A			ND			0000 2359	
1253	450.50		URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CO	304HF1B			ND			0000 2359	
1254	450.50		URS	FORT SHEVTCHENKO	URS	050E18 44N30	185	CO	100HA1A			ND			0000 2359	
1105	450.50		URS	KALININGRAD	URS	020E30 54N45	185	OT	100HA1A			ND			0000 2359	
1422	450.50		URS	KALININGRAD	URS	020E30 54N45	350	OT	100HA1A			ND			0000 2359	
1423	450.50		URS	KALININGRAD	URS	020E30 54N45	350	OT	304HF1B			ND			0000 2359	
1508	450.50		URS	LENINGRAD	URS	030E21 59N59	185	CP	100HA1A			ND			0000 2359	
1509	450.50		URS	LENINGRAD	URS	030E21 59N59	350	CP	304HF1B			ND			0000 2359	
1281	450.50		URS	TCHELEKEN	URS	053E24 39N24	185	CO	100HA1A			ND			0000 2359	
1282	450.50		URS	TCHELEKEN	URS	053E24 39N24	200	CO	304HF1B			ND			0000 2359	
2121	451.00		ALG	ORAN RADIO	ALG	000W08 35N46	185	CP	100HA1A			ND			0000 2359	
951	451.00		URS	IALTA	UKR	034E10 44N39	350	CP	304HF1B			ND			0000 2359	
952	451.00		URS	IALTA	UKR	034E10 44N39	185	CP	100HA1A			ND			0000 2359	
1580	451.00		URS	ASTRAKHAN	URS	047E42 46N55	185	CP	304HF1B			ND			0000 2359	
1229	451.00		URS	BAKU	URS	049E45 40N20	350	CO	100HA1A			ND			0000 2359	
1230	451.00		URS	BAKU	URS	049E45 40N20	350	CO	304HF1B			ND			0000 2359	
1233	451.00		URS	BAKU	URS	049E45 40N20	185	OT	100HA1A			ND			0000 2359	
1234	451.00		URS	BAKU	URS	049E45 40N20	350	OT	304HF1B			ND			0000 2359	
1467	451.00		URS	PIARNU	URS	024E33 58N23	200	CO	304HF1B			ND			0000 2359	
1468	451.00		URS	PIARNU	URS	024E33 58N23	185	CO	100HA1A			ND			0000 2359	
1126	451.00		URS	SUKHUMI	URS	040E42 43N00	200	CP	304HF1B			ND			0000 2359	
1127	451.00		URS	SUKHUMI	URS	040E42 43N00	185	CP	100HA1A			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1024	451.50	URS		IZMAIL	UKR	028E51 45N20	200	CO	304HF1B			ND			0000 2359	
1025	451.50	URS		IZMAIL	UKR	028E51 45N20	185	CO	100HA1A			ND			0000 2359	
1201	451.50	URS		AZOV	URS	039E25 45N53	200	CO	304HF1B			ND			0000 2359	
1202	451.50	URS		AZOV	URS	039E25 45N53	185	CO	100HA1A			ND			0000 2359	
1564	451.50	URS		KLAIPEDA	URS	021E12 55N46	350	CO	304HF1B			ND			0000 2359	
1565	451.50	URS		KLAIPEDA	URS	021E12 55N46	185	CO	100HA1A			ND			0000 2359	
1444	451.50	URS		NARVA-IESSU	URS	028E12 59N22	200	CO	304HF1B			ND			0000 2359	
1445	451.50	URS		NARVA-IESSU	URS	028E12 59N22	185	CO	100HA1A			ND			0000 2359	
1365	451.50	URS		ONEGA	URS	038E10 63N57	185	CO	100HA1A			ND			0000 2359	
1366	451.50	URS		ONEGA	URS	038E10 63N57	200	CO	304HF1B			ND			0000 2359	
1095	451.50	URS		TCHETCHEN	URS	047E39 44N00	185	CO	100HA1A			ND			0000 2359	
1096	451.50	URS		TCHETCHEN	URS	047E39 44N00	200	CO	304HF1B			ND			0000 2359	
2131	452.00	ALG		ANNABA RADIO	ALG	007E45 36N54	185	CP	100HA1A			ND			0000 2359	
2141	452.00	ALG		TENES RADIO	ALG	001E18 36N32	185	CP	100HA1A			ND			0000 2359	
994	452.00	URS		OTCHAKOV	UKR	031E30 46N37	200	CO	304HF1B			ND			0000 2359	
995	452.00	URS		OTCHAKOV	UKR	031E30 46N37	185	CO	100HA1A			ND			0000 2359	
1488	452.00	URS		KESTENGA	URS	032E00 65N55	200	CO	304HF1B			ND			0000 2359	
1489	452.00	URS		KESTENGA	URS	032E00 65N55	185	CO	100HA1A			ND			0000 2359	
1087	452.00	URS		KHUDAT	URS	048E39 41N38	185	CO	100HA1A			ND			0000 2359	
1088	452.00	URS		KHUDAT	URS	048E39 41N38	200	CO	304HF1B			ND			0000 2359	
1457	452.00	URS		KINGISEPP	URS	022E33 58N15	185	CO	100HA1A			ND			0000 2359	
1458	452.00	URS		KINGISEPP	URS	022E33 58N15	200	CO	304HF1B			ND			0000 2359	
1461	452.00	URS		KINGISEPP	URS	022E33 58N15	200	CO	304HF1B			ND			0000 2359	
1462	452.00	URS		KINGISEPP	URS	022E33 58N15	200	CO	100HA1A			ND			0000 2359	
1494	452.00	URS		LODEINOE	URS	033E34 60N43	200	CO	304HF1B			ND			0000 2359	
1495	452.00	URS		LODEINOE	URS	033E34 60N43	185	CO	100HA1A			ND			0000 2359	
1129	452.00	URS		PICUNDA	URS	040E21 43N09	200	CP	304HF1B			ND			0000 2359	
1130	452.00	URS		PICUNDA	URS	040E21 43N09	185	CP	100HA1A			ND			0000 2359	
1001	452.50	URS		ILITCHEVSK	UKR	030E41 46N19	200	CP	304HF1B			ND			0000 2359	
1002	452.50	URS		ILITCHEVSK	UKR	030E41 46N19	185	CP	100HA1A			ND			0000 2359	
1334	452.50	URS		ARKHANGHELSK	URS	040E37 64N36	350	CO	304HF1B			ND			0000 2359	
1335	452.50	URS		ARKHANGHELSK	URS	040E37 64N36	185	CO	100HA1A			ND			0000 2359	
1292	452.50	URS		ATCHUEVO	URS	037E27 45N43	200	CO	304HF1B			ND			0000 2359	
1293	452.50	URS		ATCHUEVO	URS	037E27 45N43	185	CO	100HA1A			ND			0000 2359	
1420	452.50	URS		KALININGRAD	URS	020E30 54N45	185	CO	100HA1A			ND			0000 2359	
1421	452.50	URS		KALININGRAD	URS	020E30 54N45	200	CO	304HF1B			ND			0000 2359	
1500	452.50	URS		KOLGUEV	URS	049E07 69N30	350	OT	304HF1B			ND			0000 2359	
1501	452.50	URS		KOLGUEV	URS	049E07 69N30	185	OT	100HA1A			ND			0000 2359	
1290	452.50	URS		MUMRA	URS	047E41 45N45	185	CO	100HA1A			ND			0000 2359	
1291	452.50	URS		MUMRA	URS	047E41 45N45	200	CO	304HF1B			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 19. 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1313	452.50	URS		MURMANSK	URS	033E10 68N58	185	CP	100HA1A			ND			0000 2359	
1314	452.50	URS		MURMANSK	URS	033E10 68N58	350	CP	304HF1B			ND			0000 2359	
2102	453.00	ALG		ALGER RADIO	ALG	003E18 36N40	185	CP	100HA1A			ND			0000 2359	
1009	453.00	URS		ODESSA	UKR	030E45 46N29	350	OT	304HF1B			ND			0000 2359	
1010	453.00	URS		ODESSA	UKR	030E45 46N29	185	OT	100HA1A			ND			0000 2359	
1114	453.00	URS		BATUMI	URS	041E19 41N39	200	OT	304HF1B			ND			0000 2359	
1115	453.00	URS		BATUMI	URS	041E19 41N39	185	OT	100HA1A			ND			0000 2359	
1091	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	200	CO	100HA1A			ND			0000 2359	
1092	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	200	CO	304HF1B			ND			0000 2359	
1093	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	200	CO	100HA1A			ND			0000 2359	
1094	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	200	CO	304HF1B			ND			0000 2359	
1214	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	185	CO	100HA1A			ND			0000 2359	
1215	453.00	URS		MAKHATCHKALA	URS	047E30 42N59	350	CO	304HF1B			ND			0000 2359	
1391	453.00	URS		RIGA	URS	024E05 56N57	350	CP	304HF1B			ND			0000 2359	
1392	453.00	URS		RIGA	URS	024E05 56N57	185	CP	100HA1A			ND			0000 2359	
1192	453.00	URS		ROSTOV-NA-DONU	URS	039E40 47N16	185	CO	100HA1A			ND			0000 2359	
1193	453.00	URS		ROSTOV-NA-DONU	URS	039E40 47N16	200	CO	304HF1B			ND			0000 2359	
1492	453.00	URS		TCHUPA	URS	033E00 66N16	200	CO	304HF1B			ND			0000 2359	
1493	453.00	URS		TCHUPA	URS	033E00 66N16	185	CO	100HA1A			ND			0000 2359	
2642	510.50	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
2668	510.50	CME		KRIBI	CME	009E43 02N53	398	CP	304HF1B			ND			0000 2359	
338	510.50	DDR		RUEGEN	DDR	013E37 54N35	200	CP	304HF1B			ND			0000 2359	
2702	510.50	E		PALMA MALLORCA	E	002E35 39N35	498	CP	100HA1A			ND			0000 2359	
1821	510.50	F		CHERBOURG	F	001W37 49N35	290	CO	304HF1B			ND			0000 2359	
86	510.50	G		STONEHAVEN RADIO	G	002W13 56N57	238	CP	100HA1A			ND			0000 2359	
654	510.50	I		TARANTO	I	017E25 40N26	379	CO	304HF1B			ND			0000 2359	
618	510.50	I		TRIESTE	I	013E46 45N39	79	CV	304HF1B			ND			0800 1700	
2915	510.50	IRQ		FAO	IRQ	048E29 29N58	398	CV	304HF1B			ND			0000 2359	
2494	510.50	TUR		IZMIR	TUR	027E10 38N24	248	CP	304HF1B			ND			0000 2359	
2500	510.50	TUR		TRABZON	TUR	039E43 41N00	248	CP	304HF1B			ND			0000 2359	
1019	510.50	URS		ODESSA	UKR	030E45 46N29	348	CP	100HA1A			ND			0000 2359	
1186	510.50	URS		ASTRAKHAN	URS	047E42 46N55	348	OT	100HA1A			ND			0000 2359	
1187	510.50	URS		ASTRAKHAN	URS	047E42 46N55	350	OT	304HF1B			ND			0000 2359	
1268	510.50	URS		KRASNOVODSK	URS	052E57 40N00	198	CP	100HA1A			ND			0000 2359	
1538	510.50	URS		TALLIN	URS	024E46 59N24	350	OT	304HF1B			ND			0000 2359	
1539	510.50	URS		TALLIN	URS	024E46 59N24	348	OT	100HA1A			ND			0000 2359	
2163	511.00	ALG		ORAN RADIO	ALG	000W08 35N46	98	CP	304HF1B			ND			0000 2359	
2657	511.00	BEN		COTONOU	BEN	002E28 06N22	98	CP	304HF1B			ND			0000 2359	
29	511.00	BHR		BAHRAIN	BHR	050E28 26N09	500	CP	304HF1B			ND			0000 2359	
2682	511.00	CME		LIMBE	CME	009E22 04N02	398	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1832	511.00	F		ARCACHON	F	001W10 44N39	500	CP	304HF1B			ND			0000 2359	
2023	511.00	GRC		MOURNIES KRITIS	GRC	024E01 35N29	368	CO	100HA1A			ND			0000 2359	
2301	511.00	POL		GDYNIA	POL	018E32 54N32	500	OT	100HA1A			ND			0000 2359	
585	511.00	POR		SAGRES	POR	008W57 37N00	348	CO	304HF1B			ND			0000 2359	
2876	511.00	TUN		BIZERTE	TUN	009E48 37N09	398	CO	100HA1A			ND			0000 2359	
2498	511.00	TUR		SAMSUN	TUR	036E20 41N17	248	CP	304HF1B			ND			0000 2359	
1000	511.00	URS		ILITCHEVSK	UKR	030E41 46N19	198	CO	100HA1A			ND			0000 2359	
1076	511.00	URS		ILITCHEVSK	UKR	030E41 46N19	200	CO	304HF1B			ND			0000 2359	
1279	511.00	URS		TCHELEKEN	URS	053E24 39N24	198	CO	100HA1A			ND			0000 2359	
1280	511.00	URS		TCHELEKEN	URS	053E24 39N24	200	CO	304HF1B			ND			0000 2359	
2149	511.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	98	CP	304HF1B			ND			0000 2359	
2173	511.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	200	CP	304HF1B			ND			0000 2359	
2648	511.50	BEN		COTONOU	BEN	002E28 06N22	500	CP	304HF1B			ND			0000 2359	
2779	511.50	CME		DOUALA	CME	009E42 04N02	98	CP	304HF1B			ND			0000 2359	
2482	511.50	CTI		S. PEDRO PORT	CTI	006W37 04N44	198	CR	304HF1B			ND			0000 2359	
1755	511.50	D		NORDDEICH RADIO	D	007E12 53N38	500	CP	100HA1A			ND			0000 2359	
2031	511.50	DNK		TORSHAVN	DNK	006W47 62N01	398	CP	304HF1B			ND			0000 2359	
474	511.50	E		FINISTERRE RADIO	E	009W16 42N54	500	CP	100HA1A			ND			0000 2359	
388	511.50	FNL		HELSINKI	FNL	025E54 60N29	500	CP	100HA1A			ND			0000 2359	
2024	511.50	GRC		MOURNIES KRITIS	GRC	024E01 35N29	368	CO	304HF1B			ND			0000 2359	
620	511.50	I		ANCONA	I	013E28 43N36	500	CP	100HA1A			ND			0000 2359	
895	511.50	IRQ		BASRAH	IRQ	047E47 30N33	98	CR	304HF1B			ND			0000 2359	
1665	511.50	NOR		ROERVIK	NOR	011E12 64N50	179	CP	100HA1A			ND			0000 2359	
1040	511.50	URS		BELGOROD-DNESTROVSKY	UKR	030E22 46N11	200	CO	304HF1B			ND			0000 2359	
1041	511.50	URS		BELGOROD-DNESTROVSKY	UKR	030E22 46N11	198	CO	100HA1A			ND			0000 2359	
1156	511.50	URS		ANAPA	URS	037E20 44N54	200	CO	304HF1B			ND			0000 2359	
1157	511.50	URS		ANAPA	URS	037E20 44N54	198	CO	100HA1A			ND			0000 2359	
1174	511.50	URS		ANAPA	URS	037E20 44N54	200	CO	100HA1A			ND			0000 2359	
1175	511.50	URS		ANAPA	URS	037E20 44N54	200	CO	304HF1B			ND			0000 2359	
1271	511.50	URS		BEKTACH	URS	052E34 41N37	198	CO	100HA1A			ND			0000 2359	
1583	511.50	URS		BEKTACH	URS	052E34 41N37	200	CO	304HF1B			ND			0000 2359	
1288	511.50	URS		MUMRA	URS	047E41 45N45	198	CO	100HA1A			ND			0000 2359	
1289	511.50	URS		MUMRA	URS	047E41 45N45	200	CO	304HF1B			ND			0000 2359	
2101	512.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	500	CP	100HA1A			ND			0000 2359	
2033	512.50	DNK		TORSHAVN	DNK	006W46 62N01	500	CO	100HA1A			ND			0000 2359	
90	512.50	G		LANDS END RADIO	G	005W40 50N07	318	CP	304HF1B			ND			0000 2359	
643	512.50	I		TRIESTE	I	013E46 45N40	500	CP	100HA1A			ND			0000 2359	
2589	512.50	QAT		DOHA	QAT	051E35 25N45	500	CP	100HA1A			ND			0000 2359	
2493	512.50	TUR		ANTALYA	TUR	030E42 36N53	248	CP	100HA1A			ND			0000 2359	
1272	512.50	URS		BEKTACH	URS	052E34 41N37	200	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1273	512.50	URS		BEKTACH	URS	052E34 41N37	198	CO	304HF1B			ND			0000 2359	
1568	512.50	URS		KLAIPEDA	URS	021E12 55N46	350	CO	304HF1B			ND			0000 2359	
1569	512.50	URS		KLAIPEDA	URS	021E12 55N46	348	CO	304HF1B			ND			0000 2359	
1161	512.50	URS		VILKOVO	URS	029E36 45N25	200	CO	304HF1B			ND			0000 2359	
1162	512.50	URS		VILKOVO	URS	029E36 45N25	198	CO	100HA1A			ND			0000 2359	
2695	513.00	E		ALBORAN	E	003W02 35N56	498	CP	100HA1A			ND			0000 2359	
623	513.00	I		AUGUSTA	I	015E13 37N13	500	CP	100HA1A			ND			0000 2359	
541	513.00	IRL		MALIN HEAD	IRL	007W21 55N22	498	CP	100HA1A			ND			0000 2359	
2458	513.00	ISR		ELAT RADIO	ISR	034E56 29N30	500	CP	304HF1B			ND			0000 2359	
370	513.00	S		GOETEBORG RADIO	S	011E56 57N28	498	CP	100HA1A			ND			0000 2359	
2488	513.00	TUR		ISTANBUL	TUR	028E56 41N04	398	CP	100HA1A			ND			0000 2359	
1062	513.00	URS		JDANOV	UKR	037E31 47N08	348	CO	100HA1A			ND			0000 2359	
1515	513.00	URS		LENINGRAD	URS	030E21 59N59	350	CP	304HF1B			ND			0000 2359	
1516	513.00	URS		LENINGRAD	URS	030E21 59N59	348	CP	100HA1A			ND			0000 2359	
1210	513.00	URS		MAKHATCHKALA	URS	047E30 42N59	348	CP	100HA1A			ND			0000 2359	
1211	513.00	URS		MAKHATCHKALA	URS	047E30 42N59	350	CP	304HF1B			ND			0000 2359	
1372	513.00	URS		UMBA	URS	034E22 66N41	200	CP	304HF1B			ND			0000 2359	
1373	513.00	URS		UMBA	URS	034E22 66N41	198	CP	100HA1A			ND			0000 2359	
2028	513.50	DNK		SKAGEN	DNK	010E34 57N44	348	CP	304HF1B			ND			0000 2359	
504	513.50	E		BAGUR RADIO	E	003E13 41N58	500	CP	100HA1A			ND			0000 2359	
660	513.50	I		AUGUSTA	I	015E13 37N13	200	CP	304HF1B			ND			0000 2359	
681	513.50	I		TRIESTE	I	013E46 45N40	98	CP	304HF1B			ND			0000 2359	
543	513.50	IRL		MALIN HEAD	IRL	007W21 55N22	498	CP	304HF1B			ND			0000 2359	
2912	513.50	IRQ		FAO	IRQ	048E29 29N58	398	CV	100HA1A			ND			0000 2359	
2908	513.50	OMA		MUSCAT	OMA	058E30 23N37	398	CR	304HF1B			ND			0000 2359	
2491	513.50	TUR		CANAKKALE	TUR	026E24 40N08	248	CP	304HF1B			ND			0000 2359	
969	513.50	URS		NIKOLAEV	UKR	032E00 46N57	198	OT	100HA1A			ND			0000 2359	
1416	513.50	URS		VENTSPILS	URS	021E32 57N24	98	CO	304HF1B			ND			0000 2359	
1417	513.50	URS		VENTSPILS	URS	021E32 57N24	350	CO	304HF1B			ND			0000 2359	
850	513.50	YUG		BAR	YUG	019E06 42N01	198	CP	304HF1B			ND			0000 2359	
2520	514.00	BHR		BAHRAIN	BHR	050E28 26N09	98	CP	304HF1B			ND			0000 2359	
2795	514.00	CPV		PRAIA	CPV	023W30 14N55	98	CP	304HF1B			ND			1000 2000	
521	514.00	E		LAS PALMAS RADIO	CNR	015W36 27N45	500	CP	304HF1B			ND			0000 2359	
391	514.00	FNL		VAASA	FNL	021E09 63N19	498	CP	100HA1A			ND			0000 2359	
92	514.00	G		NORWICK RADIO	G	000W45 60N29	318	CP	304HF1B			ND			0000 2359	
2006	514.00	GRC		LIMNOS	GRC	025E11 39N54	368	CP	304HF1B			ND			0000 2359	
2070	514.00	ISL		REYKJAVIK RADIO	ISL	021W51 64N05	500	CP	100HA1A			ND			0000 2359	
1924	514.00	MRC		NADOR	MRC	002W56 35N10	348	CP	100HA1A			ND			0000 2359	
2304	514.00	POL		GDYNIA	POL	018E32 54N32	98	CP	304HF1B			ND			0000 2359	
2345	514.00	POL		WITOWO	POL	016E32 54N33	298	CP	100HA1A			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2391	514.00	TUN		KELIBIA RADIO	TUN	008E46 36N50	500	CP	100HA1A			ND			0600 1900	
998	514.00	URS		OTCHAKOV	UKR	031E30 46N37	198	CP	100HA1A			ND			0000 2359	
1330	514.00	URS		ARKHANGHELSK	URS	040E37 64N36	200	OT	304HF1B			ND			0000 2359	
1331	514.00	URS		ARKHANGHELSK	URS	040E37 64N36	98	OT	304HF1B			ND			0000 2359	
1222	514.00	URS		BAKU	URS	049E45 40N20	348	CP	304HF1B			ND			0000 2359	
1257	514.00	URS		GURIEV	URS	051E55 47N03	198	CP	304HF1B			ND			0000 2359	
1258	514.00	URS		GURIEV	URS	051E55 47N03	200	CP	304HF1B			ND			0000 2359	
2151	514.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	98	CP	304HF1B			ND			0000 2359	
2176	514.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	98	CP	304HF1B			ND			0000 2359	
2160	514.50	ALG		TENES RADIO	ALG	001E18 36N32	98	CP	304HF1B			ND			0000 2359	
2791	514.50	CPV		PRAIA	CPV	023W30 14N55	500	CP	304HF1B			ND			1000 2000	
1837	514.50	F		MARSEILLE	F	005E21 43N19	200	CP	304HF1B			ND			0000 2359	
626	514.50	I		BARI	I	017E25 40N26	500	CP	100HA1A			ND			0000 2359	
34	514.50	JOR		AQABA RADIO	JOR	034E59 29N33	500	CP	100HA1A			ND			0000 2359	
2528	514.50	KWT		HUBAN	KWT	047E41 29N31	500	CP	100HA1A			ND			0000 2359	
354	514.50	S		AELVSBORG RADIO	S	011E30 58N30	398	CO	100HA1A			ND			0000 2359	
2822	514.50	SDN		PT SUDAN	SDN	037E14 19N38	398	CP	100HA1A			ND			0000 2359	
2823	514.50	SOM		MOGADISCIO	SOM	045E20 02N02	398	CO	100HA1A			ND			0000 2359	
2485	514.50	TUR		TOPHANE KULESI	TUR	028E59 41N01	248	CO	100HA1A			ND			0000 2359	
1152	514.50	URS		NOVOROSSIISK	URS	037E42 44N42	348	CP	100HA1A			ND			0000 2359	
32	514.50	YMS		HISWA	YMS	044E54 12N49	500	CP	100HA1A			ND			0000 2359	
2119	515.00	ALG		ORAN RADIO	ALG	000W08 35N46	98	CP	304HF1B			ND			0000 2359	
1967	515.00	BUL		BOURGAS RADIO	BUL	027E29 42N30	98	CO	304HF1B			ND			0000 2359	
2794	515.00	CPV		PRAIA	CPV	023W30 14N55	98	CP	304HF1B			ND			1000 2000	
2013	515.00	GRC		HERAKLION	GRC	025E45 35N19	368	CP	100HA1A			ND			0000 2359	
538	515.00	IRL		VALENTIA	IRL	010W21 51N56	498	CP	100HA1A			ND			0000 2359	
2526	515.00	KWT		AHMADI	KWT	048E04 29N06	500	CV	100HA1A			ND			0300 2100	
1920	515.00	MRC		LAAYOUNE	MRC	013W13 27N10	398	CP	100HA1A			ND			0000 2359	
2339	515.00	POL		SZCZECIN	POL	014E35 53N28	500	CP	304HF1B			ND			0000 2359	
2062	515.00	TUN		TUNIS RADIO	TUN	010E11 36N53	500	CP	100HA1A			ND			0000 2359	
1524	515.00	URS		PETROZAVODSK	URS	034E19 61N48	198	CO	304HF1B			ND			0000 2359	
1546	515.00	URS		TALLIN	URS	024E46 59N24	350	CP	304HF1B			ND			0000 2359	
1547	515.00	URS		TALLIN	URS	024E46 59N24	200	CP	304HF1B			ND			0000 2359	
1101	515.00	URS		TEMRIUK	URS	037E24 45N17	348	OT	100HA1A			ND			0000 2359	
2799	515.50	CPV		S VICENTE	CPV	025W00 16N51	500	CO	100HA1A			ND			0000 2359	
2689	515.50	E		CABO PALOS	E	000W42 37N38	498	CP	100HA1A			ND			0000 2359	
2810	515.50	EGY		TOR RADIO	EGY	033E35 28N15	500	CP	100HA1A			ND			0000 2359	
393	515.50	FNL		HELSINKI	FNL	025E54 60N29	200	CP	304HF1B			ND			0000 2359	
79	515.50	G		CULLERCOATS RADIO	G	001W28 55N04	318	CP	100HA1A			ND			0000 2359	
2005	515.50	GRC		LIMNOS	GRC	025E11 39N54	368	CP	100HA1A			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 23 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2532	515.50	KWT		RAS ALZOOR	KWT	048E56 28N28	500	CP	304HF1B			ND			0300 2100	
2337	515.50	POL		SZCZECIN	POL	014E35 53N28	500	CP	100HA1A			ND			0000 2359	
2739	515.50	TUN		BIZERTE RADIO	TUN	009E53 37N16	98	CP	304HF1B			ND			0600 1900	
927	515.50	URS		KERTCH	UKR	036E28 45N22	348	CO	304HF1B			ND			0000 2359	
841	515.50	YUG		ZADAR	YUG	015E14 44N07	248	CP	100HA1A			ND			0000 2359	
2128	516.00	ALG		ANNABA RADIO	ALG	007E45 36N54	500	CP	100HA1A			ND			0000 2359	
1905	516.00	ARS		DAMMAMRADIO	ARS	050E06 26N26	500	CP	304HF1B			ND			0000 2359	
1913	516.00	ARS		JEDDAHRADIO	ARS	039E10 21N23	500	CP	304HF1B			ND			0000 2359	
2780	516.00	CPV		MINDELO	CPV	024W59 16N53	500	CP	100HA1A			ND			0000 2359	
394	516.00	FNL		MARIEHAMN	FNL	019E57 60N07	498	CP	304HF1B			ND			0000 2359	
432	516.00	HOL		DEN HELDER	HOL	004E45 52N55	498	CP	304HF1B			ND			0000 2359	
2892	516.00	LBY		BENGHAZI	LBY	020E04 32N07	500	CP	100HA1A			ND			0000 2359	
1922	516.00	MRC		DAKHLA	MRC	015W56 23N42	398	CP	100HA1A			ND			0000 2359	
582	516.00	POR		MONSANTO	POR	009W11 38N44	500	CO	100HA1A			ND			0000 2359	
958	516.00	URS		SEVASTOPOL	UKR	033E32 44N34	350	CO	304HF1B			ND			0000 2359	
959	516.00	URS		SEVASTOPOL	UKR	033E32 44N34	348	CO	304HF1B			ND			0000 2359	
844	516.00	YUG		BAR	YUG	019E06 42N01	298	CP	100HA1A			ND			0000 2359	
2369	516.50	BHR		BAHRAIN	BHR	050E35 26N14	500	CO	100HA1A			ND			0000 2359	
2793	516.50	CPV		PRAIA	CPV	023W30 14N55	98	CP	304HF1B			ND			1000 2000	
2027	516.50	DNK		SKAGEN	DNK	010E34 57N44	348	CP	100HA1A			ND			0000 2359	
2032	516.50	DNK		TORSHAVN	DNK	006W47 62N01	398	CP	304HF1B			ND			0000 2359	
496	516.50	E		CARTAGENA	E	000W58 37N36	500	CO	100HA1A			ND			0000 2359	
1817	516.50	F		S DENIS	REU	055E36 20S54	500	CP	304HF1B			ND			0000 2359	
91	516.50	G		NORTH FORELAND RADIO	G	001E25 51N22	238	CP	304HF1B			ND			0000 2359	
1991	516.50	GRC		ASPROPYRGOS	GRC	023E35 38N02	368	CO	100HA1A			ND			0000 2359	
633	516.50	I		GENOVA	I	008E56 44N25	48	CP	304HF1B			ND			0000 2359	
2281	516.50	ISR		HAIFA NAVAL RADIO	ISR	035E03 32N49	500	CO	304HF1B			ND			0000 2359	
1929	516.50	MRC		AGADIR-RADIO	MRC	009W33 30N22	398	CP	100HA1A			ND			0000 2359	
1150	516.50	URS		NOVOROSSIISK	URS	037E42 44N42	350	CP	304HF1B			ND			0000 2359	
1151	516.50	URS		NOVOROSSIISK	URS	037E42 44N42	348	CP	304HF1B			ND			0000 2359	
847	516.50	YUG		ZADAR	YUG	015E14 44N07	248	CP	304HF1B			ND			0000 2359	
2790	517.00	CPV		PRAIA	CPV	023W30 14N55	500	CP	304HF1B			ND			1000 2000	
497	517.00	E		CARTAGENA	E	000W58 37N36	500	CO	304HF1B			ND			0000 2359	
1829	517.00	F		LE CONQUET	F	004W44 48N20	500	CP	304HF1B			ND			0000 2359	
87	517.00	G		WICK RADIO	G	003W06 58N26	318	CP	100HA1A			ND			0000 2359	
2020	517.00	GRC		SPATA ATTIKIS	GRC	023E55 37N58	368	CO	304HF1B			ND			0000 2359	
648	517.00	I		LA SPEZIA	I	009E43 44N06	379	CO	304HF1B			ND			0000 2359	
614	517.00	I		MOLFETTA	I	016E36 41N12	79	CV	100HA1A			ND			0800 1700	
893	517.00	IRQ		BASRAH	IRQ	047E47 30N33	200	CR	304HF1B			ND			0000 2359	
2071	517.00	ISL		REYKJAVIK RADIO	ISL	021W51 64N05	500	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2920	517.00		LBY	TRIPOLI RADIO	LBY	013E11 32N54	248	CV	100HA1A			ND			0000 2359	
1602	517.00		MDG	TOAMASINA	MDG	049E24 18S08	498	CP	304HF1B			ND			0000 2359	
2880	517.00		TUN	C BLANC	TUN	009E50 37N20	98	CO	100HA1A			ND			0000 2359	
972	517.00		URS	NIKOLAEV	UKR	032E00 46N57	200	CO	304HF1B			ND			0000 2359	
973	517.00		URS	NIKOLAEV	UKR	032E00 46N57	98	CO	304HF1B			ND			0000 2359	
1440	517.00		URS	TARAN	URS	019E59 54N58	350	CO	304HF1B			ND			0000 2359	
1441	517.00		URS	TARAN	URS	019E59 54N58	348	CO	100HA1A			ND			0000 2359	
1170	517.00		URS	TEMRIUK	URS	037E24 45N17	198	CO	304HF1B			ND			0000 2359	
1171	517.00		URS	TEMRIUK	URS	037E24 45N17	200	CO	304HF1B			ND			0000 2359	
2130	519.00		ALG	ANNABA RADIO	ALG	007E45 36N54	500	CP	304HF1B			ND			0000 2359	
1911	519.00		ARS	DAMMAMRADIO	ARS	050E06 26N26	500	CP	304HF1B			ND			0000 2359	
2707	519.00		E	CADIZ	E	006W16 36N30	498	CP	304HF1B			ND			0000 2359	
2692	519.00		E	LAS PALMAS	E	015W36 27N45	500	CP	304HF1B			ND			0000 2359	
2000	519.00		GRC	ATHINAI	GRC	023E53 38N00	368	CP	304HF1B			ND			0000 2359	
2262	519.00		MAU	MAURITIUS RADIO	MAU	057E30 20S20	98	CP	304HF1B			ND			0000 2359	
1679	519.00		NOR	HARSTAD	NOR	018E57 69N39	368	CO	100HA1A			ND			0000 2359	
1674	519.00		NOR	SVALBARD	NOR	013E38 78N04	368	CP	100HA1A			ND			0000 2359	
381	519.00		S	STOCKHOLM RADIO	S	018E43 59N17	498	CP	100HA1A			ND			0000 2359	
996	519.00		URS	OTCHAKOV	UKR	031E30 46N37	200	CP	304HF1B			ND			0000 2359	
997	519.00		URS	OTCHAKOV	UKR	031E30 46N37	198	CP	304HF1B			ND			0000 2359	
1332	519.00		URS	ARKHANGHELSK	URS	040E37 64N36	500	CO	304HF1B			ND			0000 2359	
1333	519.00		URS	ARKHANGHELSK	URS	040E37 64N36	498	CO	100HA1A			ND			0000 2359	
1300	519.00		URS	TAGANROG	URS	038E53 47N13	200	CO	304HF1B			ND			0000 2359	
1301	519.00		URS	TAGANROG	URS	038E53 47N13	198	CO	304HF1B			ND			0000 2359	
848	519.00		YUG	SPLIT	YUG	016E29 43N30	298	CP	304HF1B			ND			0000 2359	
1609	519.50		ALB	VLORE PT RADIO	ALB	019E29 40N27	348	CP	304HF1B			ND			0000 2359	
1965	519.50		BUL	VARNA RADIO	BUL	027E46 43N04	200	CO	304HF1B			ND			0000 2359	
1760	519.50		D	KIEL RADIO	D	010E08 54N26	500	CP	304HF1B			ND			0000 2359	
486	519.50		E	TARIFA RADIO	E	005W33 36N03	500	CP	304HF1B			ND			0000 2359	
1836	519.50		F	MARSEILLE	F	005E21 43N19	500	CP	304HF1B			ND			0000 2359	
93	519.50		G	PORTPATRICK RADIO	G	005W07 54N51	238	CP	304HF1B			ND			0000 2359	
2427	519.50		MLT	XLOKK RADIO	MLT	014E32 35N49	98	CP	304HF1B			ND			0000 2359	
2542	519.50		POR	LAJES	AZR	027W06 38N46	500	CO	304HF1B			ND			0000 2359	
607	519.50		POR	MADEIRA	MDR	016W50 32N38	398	CP	304HF1B			ND			0000 2359	
1069	519.50		URS	JDANOV	UKR	037E31 47N08	350	CP	304HF1B			ND			0000 2359	
1070	519.50		URS	JDANOV	UKR	037E31 47N08	348	CP	304HF1B			ND			0000 2359	
1181	519.50		URS	ASTRAKHAN	URS	047E42 46N55	200	CO	304HF1B			ND			0000 2359	
1513	519.50		URS	LENINGRAD	URS	030E21 59N59	348	CP	304HF1B			ND			0000 2359	
1514	519.50		URS	LENINGRAD	URS	030E21 59N59	350	CP	304HF1B			ND			0000 2359	
1317	519.50		URS	MURMANSK	URS	033E10 68N58	348	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1350	519.50		URS	NARIAN-MAR	URS	053E00 67N39	198	CP	304HF1B			ND			0000 2359	
1611	520.00		ALB	DURRES PT RADIO	ALB	019E26 41N27	198	CP	304HF1B			ND			0000 2359	
2125	520.00		ALG	ORAN RADIO	ALG	000W08 35N46	200	CP	304HF1B			ND			0000 2359	
1758	520.00		D	NORDDEICH RADIO	D	007E12 53N38	200	CP	304HF1B			ND			0000 2359	
390	520.00		FNL	MARIEHAMN	FNL	019E57 60N07	500	CP	100HA1A			ND			0000 2359	
630	520.00		I	CAGLIARI	I	009E07 39N15	500	CP	304HF1B			ND			0000 2359	
680	520.00		I	TRIESTE	I	013E46 45N40	98	CP	304HF1B			ND			0000 2359	
540	520.00		IRL	VALENTIA	IRL	010W21 51N56	498	CP	304HF1B			ND			0000 2359	
2821	520.00		KWT	AHMADI	KWT	048E04 29N06	500	CV	100HA1A			ND			0400 1900	
586	520.00		POR	LISBOA	POR	009W14 38N44	398	CP	304HF1B			ND			0000 2359	
2487	520.00		TUR	ISTANBUL	TUR	028E56 41N04	198	CP	304HF1B			ND			0000 2359	
945	520.00		URS	IALTA	UKR	034E10 44N39	200	CO	304HF1B			ND			0000 2359	
946	520.00		URS	IALTA	UKR	034E10 44N39	198	CO	304HF1B			ND			0000 2359	
1473	520.00		URS	BELOMORSK	URS	034E41 64N36	200	OT	304HF1B			ND			0000 2359	
1474	520.00		URS	BELOMORSK	URS	034E41 64N36	198	OT	100HA1A			ND			0000 2359	
2142	520.50		ALG	TENES RADIO	ALG	001E18 36N32	500	CP	304HF1B			ND			0000 2359	
344	520.50		DDR	RUEGEN	DDR	013E37 54N35	500	CP	304HF1B			ND			0000 2359	
2806	520.50		EGY	ISMAILIA	EGY	032E16 30N35	500	CV	100HA1A			ND			0000 2359	
1831	520.50		F	LE CONQUET	F	004W44 48N20	500	CP	304HF1B			ND			0000 2359	
637	520.50		I	NAPOLI	I	014E14 40N50	500	CP	304HF1B			ND			0000 2359	
2819	520.50		KWT	SHOWAIKH	KWT	047E59 29N23	500	CP	100HA1A			ND			0400 1900	
2922	520.50		LBY	BENGHAZI PORT	LBY	020E04 32N03	298	CV	100HA1A			ND			0000 2359	
2439	520.50		ROU	CONSTANTA	ROU	028E37 44N06	500	CP	304HF1B			ND			0000 2359	
1608	521.00		ALB	VLORE PT RADIO	ALB	019E29 40N27	348	CP	304HF1B			ND			0000 2359	
2172	521.00		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	500	CP	304HF1B			ND			0000 2359	
1827	521.00		F	BOULOGNE	F	001E38 50N43	500	CP	304HF1B			ND			0000 2359	
679	521.00		I	TRIESTE	I	013E46 45N40	200	CP	304HF1B			ND			0000 2359	
2302	521.00		POL	GDYNIA	POL	018E32 54N32	500	CP	304HF1B			ND			0000 2359	
2737	521.00		TUN	BIZERTE RADIO	TUN	009E53 37N16	298	CP	304HF1B			ND			0600 1900	
1015	521.00		URS	ODESSA	UKR	030E45 46N29	350	CP	304HF1B			ND			0000 2359	
1016	521.00		URS	ODESSA	UKR	030E45 46N29	348	CP	304HF1B			ND			0000 2359	
1349	521.00		URS	NARIAN-MAR	URS	053E00 67N39	198	CO	304HF1B			ND			0000 2359	
1485	521.00		URS	NARIAN-MAR	URS	053E00 67N39	200	CO	100HA1A			ND			0000 2359	
1482	521.00		URS	PERTOMINSK	URS	038E27 64N48	198	CO	100HA1A			ND			0000 2359	
1556	521.00		URS	VYBORG	URS	028E46 60N42	198	CO	304HF1B			ND			0000 2359	
1557	521.00		URS	VYBORG	URS	028E46 60N42	200	CO	304HF1B			ND			0000 2359	
2124	521.50		ALG	ORAN RADIO	ALG	000W08 35N46	500	CP	304HF1B			ND			0000 2359	
1966	521.50		BUL	BOURGAS RADIO	BUL	027E29 42N30	500	CO	304HF1B			ND			0000 2359	
2802	521.50		EGY	ALEXANDRIA RADIO	EGY	029E51 31N11	500	CP	304HF1B			ND			0000 2359	
1820	521.50		F	BREST	F	004W19 48N26	500	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
640	521.50	I		ROMA	I	012E31 41N48	500	CP	304HF1B			ND			0000 2359	
1672	521.50	NOR		BODOE	NOR	014E23 67N16	368	CP	304HF1B			ND			0000 2359	
2372	521.50	OMA		MUSCAT	OMA	058E30 23N37	398	CP	304HF1B			ND			0000 2359	
371	521.50	S		GOETEBORG RADIO	S	011E56 57N28	498	CP	304HF1B			ND			0000 2359	
1067	521.50	URS		JDANOV	UKR	037E31 47N08	350	CP	304HF1B			ND			0000 2359	
1068	521.50	URS		JDANOV	UKR	037E31 47N08	200	CP	304HF1B			ND			0000 2359	
1357	521.50	URS		MEZEN	URS	044E17 65N51	200	CO	304HF1B			ND			0000 2359	
1358	521.50	URS		MEZEN	URS	044E17 65N51	198	CO	100HA1A			ND			0000 2359	
1320	521.50	URS		MURMANSK	URS	033E10 68N58	98	OT	304HF1B			ND			0000 2359	
1321	521.50	URS		MURMANSK	URS	033E10 68N58	350	OT	304HF1B			ND			0000 2359	
2171	522.00	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	500	CP	304HF1B			ND			0000 2359	
1915	522.00	ARS		RAS TANURA RADIO	ARS	050E07 26N18	500	CV	304HF1B			ND			0000 2359	
1969	522.00	BUL		BOURGAS RADIO	BUL	027E29 42N30	500	CO	304HF1B			ND			0000 2359	
671	522.00	I		GENOVA	I	008E56 44N25	98	CP	304HF1B			ND			0000 2359	
2540	522.00	I		MAZARA VALLO	I	012E34 37N38	500	CP	304HF1B			ND			0000 2359	
537	522.00	IRL		HAULBOWLINE	IRL	008W18 51N50	498	CO	304HF1B			ND			0000 2359	
903	522.00	S		STOCKHOLM RADIO	S	014E19 55N29	498	CP	304HF1B			ND			0000 2359	
1322	522.00	URS		MURMANSK	URS	033E10 68N58	498	CO	100HA1A			ND			0000 2359	
1323	522.00	URS		MURMANSK	URS	033E10 68N58	500	CO	304HF1B			ND			0000 2359	
1148	522.00	URS		NOVOROSSIISK	URS	037E42 44N42	350	CP	304HF1B			ND			0000 2359	
1149	522.00	URS		NOVOROSSIISK	URS	037E42 44N42	98	CP	304HF1B			ND			0000 2359	
2105	522.50	ALG		ALGER RADIO	ALG	003E18 36N40	500	CP	304HF1B			ND			0000 2359	
501	522.50	E		FERROL	E	008W16 43N28	500	CO	304HF1B			ND			0000 2359	
430	522.50	HOL		SCHEVENINGEN	HOL	004E15 52N06	498	CP	304HF1B			ND			0000 2359	
627	522.50	I		BARI	I	017E25 40N26	500	CP	304HF1B			ND			0000 2359	
2837	522.50	LBY		TOBRUK	LBY	023E59 32N02	398	CV	304HF1B			ND			0000 2359	
366	522.50	S		TINGSTAEDE RADIO	S	018E36 57N44	398	CP	304HF1B			ND			0000 2359	
1031	522.50	URS		IZMAIL	UKR	028E51 45N20	348	CO	304HF1B			ND			0000 2359	
1058	522.50	URS		JDANOV	UKR	037E31 47N08	98	CP	304HF1B			ND			0000 2359	
1328	522.50	URS		ARKHANGHELSK	URS	040E37 64N36	350	CP	304HF1B			ND			0000 2359	
1329	522.50	URS		ARKHANGHELSK	URS	040E37 64N36	348	CP	304HF1B			ND			0000 2359	
1910	523.00	ARS		DAMMAMRADIO	ARS	050E06 26N26	500	CP	304HF1B			ND			0000 2359	
1756	523.00	D		NORDDEICH RADIO	D	007E12 53N38	500	CP	304HF1B			ND			0000 2359	
457	523.00	E		CABO DE LA NAO RADIO	E	000E11 38N43	500	CP	304HF1B			ND			0000 2359	
621	523.00	I		ANCONA	I	013E28 43N36	500	CP	304HF1B			ND			0000 2359	
588	523.00	POR		LISBOA	POR	009W14 38N44	98	CP	304HF1B			ND			0000 2359	
2435	523.00	ROU		AGIGEA	ROU	028E39 44N06	500	CP	304HF1B			ND			0000 2359	
378	523.00	S		HAERNOESAND RADIO	S	021E36 64N28	498	CP	304HF1B			ND			0000 2359	
2755	523.00	TUN		SFAX RADIO	TUN	010E44 34N44	298	CP	304HF1B			ND			0600 2359	
2497	523.00	TUR		MERSIN	TUR	034E36 36N49	248	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1338	523.00	URS		ARKHANGHELSK	URS	040E37 64N36	200	CP	304HF1B			ND			0000 2359	
1227	523.00	URS		BAKU	URS	049E45 40N20	98	CO	304HF1B			ND			0000 2359	
1228	523.00	URS		BAKU	URS	049E45 40N20	350	CO	304HF1B			ND			0000 2359	
1120	523.00	URS		BATUMI	URS	041E19 41N39	350	CP	304HF1B			ND			0000 2359	
1121	523.00	URS		BATUMI	URS	041E19 41N39	348	CP	304HF1B			ND			0000 2359	
1255	523.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	198	CO	304HF1B			ND			0000 2359	
1256	523.00	URS		FORT SHEVTCHENKO	URS	050E18 44N30	200	CO	304HF1B			ND			0000 2359	
1379	523.00	URS		KLAIPEDA	URS	021E12 55N46	350	CP	304HF1B			ND			0000 2359	
1380	523.00	URS		KLAIPEDA	URS	021E12 55N46	200	CP	304HF1B			ND			0000 2359	
2143	523.50	ALG		TENES RADIO	ALG	001E18 36N32	500	CP	304HF1B			ND			0000 2359	
1964	523.50	BUL		VARNA RADIO	BUL	027E46 43N04	500	CO	304HF1B			ND			0000 2359	
2030	523.50	DNK		BLAAVAND	DNK	008E07 55N33	348	CP	304HF1B			ND			0000 2359	
389	523.50	FNL		HELSINKI	FNL	025E54 60N29	500	CP	304HF1B			ND			0000 2359	
624	523.50	I		AUGUSTA	I	015E13 37N13	500	CP	304HF1B			ND			0000 2359	
645	523.50	I		TRIESTE	I	013E46 45N40	248	CP	304HF1B			ND			0000 2359	
539	523.50	IRL		VALENTIA	IRL	010W21 51N56	498	CP	304HF1B			ND			0000 2359	
2914	523.50	IRQ		BASRAH	IRQ	047E47 30N33	98	CV	304HF1B			ND			0000 2359	
2283	523.50	ISR		HAIFA RADIO	ISR	035E00 32N48	500	CP	304HF1B			ND			0000 2359	
1668	523.50	NOR		HARSTAD	NOR	018E57 69N39	368	CP	304HF1B			ND			0000 2359	
1179	523.50	URS		ASTRAKHAN	URS	047E42 46N55	348	CP	304HF1B			ND			0000 2359	
1180	523.50	URS		ASTRAKHAN	URS	047E42 46N55	350	CP	304HF1B			ND			0000 2359	
1225	523.50	URS		BAKU	URS	049E45 40N20	200	CO	304HF1B			ND			0000 2359	
1226	523.50	URS		BAKU	URS	049E45 40N20	350	CP	304HF1B			ND			0000 2359	
1153	523.50	URS		TUAPSE	URS	039E05 44N01	200	CO	304HF1B			ND			0000 2359	
1154	523.50	URS		TUAPSE	URS	039E05 44N01	198	CO	304HF1B			ND			0000 2359	
2107	524.00	ALG		ALGER RADIO	ALG	003E18 36N40	500	CP	304HF1B			ND			0000 2359	
478	524.00	E		FINISTERRE RADIO	E	009W16 42N54	500	CP	304HF1B			ND			0000 2359	
2559	524.00	EGY		ALEXANDRIA RADIO	EGY	029E52 31N12	498	CP	304HF1B			ND			0000 2359	
634	524.00	I		GENOVA	I	008E56 44N25	248	CP	304HF1B			ND			0000 2359	
655	524.00	I		TARANTO	I	017E25 40N26	379	CO	304HF1B			ND			0000 2359	
1682	524.00	NOR		KRISTIANSAND S	NOR	007E59 58N03	368	CO	304HF1B			ND			0000 2359	
2486	524.00	TUR		ISTANBUL	TUR	028E56 41N04	398	CP	304HF1B			ND			0000 2359	
1055	524.00	URS		BERDIANSK	UKR	036E48 46N47	198	CP	304HF1B			ND			0000 2359	
1056	524.00	URS		BERDIANSK	UKR	036E48 46N47	200	CP	304HF1B			ND			0000 2359	
1389	524.00	URS		RIGA	URS	024E05 56N57	350	CO	304HF1B			ND			0000 2359	
1390	524.00	URS		RIGA	URS	024E05 56N57	348	CO	304HF1B			ND			0000 2359	
489	524.50	E		TARIFA RADIO	E	005W33 36N03	500	CP	304HF1B			ND			0000 2359	
395	524.50	FNL		VAASA	FNL	021E09 63N19	498	CP	304HF1B			ND			0000 2359	
2015	524.50	GRC		HERAKLION	GRC	025E45 35N19	368	CP	304HF1B			ND			0000 2359	
644	524.50	I		TRIESTE	I	013E46 45N40	500	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2388	524.50	KEN		MOMBASA RADIO	KEN	039E44 03S58	500	CP	100HA1A			ND			0000 2359	
2817	524.50	KWT		HUBAN	KWT	047E41 29N31	500	CP	100HA1A			ND			0000 2359	
2346	524.50	POL		WITOWO	POL	016E32 54N33	298	CP	304HF1B			ND			0000 2359	
1747	524.50	POR		HORTA	AZR	028W38 38N32	500	CO	304HF1B			ND			0000 2359	
610	524.50	POR		MADEIRA	MDR	016W50 32N38	398	CP	304HF1B			ND			0000 2359	
2454	524.50	ROU		SULINA	ROU	029E39 45N09	500	CP	304HF1B			ND			0000 2359	
2771	524.50	TUN		KELIBIA RADIO	TUN	008E46 36N50	298	CP	304HF1B			ND			0600 1900	
1757	525.00	D		NORDDEICH RADIO	D	007E12 53N38	500	CP	304HF1B			ND			0000 2359	
392	525.00	FNL		HELSINKI	FNL	025E54 60N29	498	CP	304HF1B			ND			0000 2359	
2010	525.00	GRC		KERKYRA	GRC	019E54 39N37	368	CP	304HF1B			ND			0000 2359	
1902	525.00	JOR		AQABA RADIO	JOR	034E59 29N33	500	CP	304HF1B			ND			0000 2359	
2614	525.00	KEN		MOMBASA RADIO	KEN	039E44 03S58	98	CP	304HF1B			ND			0000 2359	
2274	525.00	MOZ		PEMBA RADIONAVAL	MOZ	040E29 12S58	498	CO	100HA1A			ND			0000 2359	
1680	525.00	NOR		HARSTAD	NOR	018E57 69N39	368	CO	304HF1B			ND			0000 2359	
1736	525.00	POR		MONSANTO	POR	009W11 38N44	498	CO	304HF1B			ND			0000 2359	
2750	525.00	TUN		TABARKA RADIO	TUN	006E25 36N57	498	CP	304HF1B			ND			0600 1900	
949	525.00	URS		IALTA	UKR	034E10 44N39	350	CP	304HF1B			ND			0000 2359	
950	525.00	URS		IALTA	UKR	034E10 44N39	348	CP	304HF1B			ND			0000 2359	
839	525.00	YUG		KOPER	YUG	013E44 45N33	248	CP	304HF1B			ND			0000 2359	
2157	525.50	ALG		BEJAIA RADIO	ALG	005E05 36N45	98	CP	304HF1B			ND			0000 2359	
2175	525.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	98	CP	304HF1B			ND			0000 2359	
2148	525.50	ALG		TENES RADIO	ALG	001E18 36N32	98	CP	304HF1B			ND			0000 2359	
337	525.50	DDR		RUEGEN	DDR	013E37 54N35	348	CP	304HF1B			ND			0000 2359	
1815	525.50	F		S DENIS	REU	055E36 20S54	500	CP	304HF1B			ND			0000 2359	
2820	525.50	KWT		RAS LA KHAFJI	KWT	048E56 28N28	500	CV	100HA1A			ND			0500 1600	
1595	525.50	MDG		MAINTIRANO	MDG	044E01 18S03	348	CP	100HA1A			ND			0000 2359	
2425	525.50	MLT		XLOKK RADIO	MLT	014E32 35N49	500	CP	304HF1B			ND			0000 2359	
2495	525.50	TUR		IZMIR	TUR	027E10 38N24	248	CP	304HF1B			ND			0000 2359	
1032	525.50	URS		IZMAIL	UKR	028E51 45N20	350	CP	304HF1B			ND			0000 2359	
1033	525.50	URS		IZMAIL	UKR	028E51 45N20	348	CP	304HF1B			ND			0000 2359	
1144	525.50	URS		NOVOROSSIISK	URS	037E42 44N42	350	CO	304HF1B			ND			0000 2359	
1145	525.50	URS		NOVOROSSIISK	URS	037E42 44N42	98	CO	304HF1B			ND			0000 2359	
846	525.50	YUG		RIJEKA	YUG	014E33 45N07	298	CP	304HF1B			ND			0000 2359	
2110	526.00	ALG		ALGER RADIO	ALG	003E18 36N40	98	CP	304HF1B			ND			0000 2359	
2129	526.00	ALG		ANNABA RADIO	ALG	007E45 36N54	98	CP	304HF1B			ND			0000 2359	
341	526.00	DDR		RUEGEN	DDR	013E37 54N35	98	CP	304HF1B			ND			0000 2359	
2011	526.00	GRC		KERKYRA	GRC	019E54 39N37	218	CP	304HF1B			ND			0000 2359	
676	526.00	I		ROMA	I	012E31 41N48	248	CP	304HF1B			ND			0000 2359	
1589	526.00	MLT		MALTA RADIO	MLT	014E24 35N52	200	CP	304HF1B			ND			0000 2359	
944	526.00	URS		IALTA	UKR	034E10 44N39	98	CO	100HA1A			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1014	526.00		URS	ODESSA	UKR	030E45 46N29	98	OT	100HA1A			ND			0000 2359	
1426	526.00		URS	KALININGRAD	URS	020E30 54N45	350	CO	304HF1B			ND			0000 2359	
1427	526.00		URS	KALININGRAD	URS	020E30 54N45	98	CO	100HA1A			ND			0000 2359	
2116	1607.00		ALG	ORAN RADIO	ALG	000W08 35N46	398	CP	304HF1B			ND			0000 2359	
2653	1607.00		BEN	COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
2858	1607.00		COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	304HF1B			ND			0000 2359	
348	1607.00		DDR	RUEGEN	DDR	013E37 54N35	98	CP	304HF1B			ND			0000 2359	
479	1607.00		E	FINISTERRE RADIO	E	009W16 42N54	400	CP	304HF1B			ND			0000 2359	
1889	1607.00		F	MARSEILLE	F	005E21 43N19	400	CP	304HF1B			ND			0000 2359	
397	1607.00		FNL	MARIEHAMN	FNL	019E57 60N07	400	CP	304HF1B			ND			0000 2359	
39	1607.00		G	ASCENSION	ASC	014W25 07S56	318	CP	304HF1B			ND			0000 2359	
436	1607.00		HOL	OUDDORP	HOL	003E53 51N48	400	CP	304HF1B			ND			0000 2359	
696	1607.00		I	CROTONE RADIO	I	017E08 39N03	400	CP	304HF1B			ND			0000 2359	
1700	1607.00		NOR	VARDOE	NOR	031E05 70N22	368	CP	304HF1B			ND			0000 2359	
1585	1607.00		URS	ARKHANGHELSK	URS	040E37 64N36	248	CP	304HF1B			ND			0000 2359	
2464	1607.50		CTI	ABIDJAN RADIO	CTI	003W58 05N21	298	CP	304HF1B			ND			0000 2359	
1785	1607.50		D	BAD BRAMSTEDT	D	009E56 53N56	314	CO	304HF1B			ND			0000 2359	
401	1607.50		FNL	MARIEHAMN	FNL	019E57 60N07	400	CP	304HF1B			ND			0000 2359	
126	1607.50		G	MILLTOWN	G	003W14 57N40	274	CO	304HF1B			ND			0000 2359	
133	1607.50		G	ST EVAL	G	005W00 50N28	274	CO	304HF1B			ND			0000 2359	
694	1607.50		I	CAGLIARI	I	009E07 39N15	400	CP	304HF1B			ND			0000 2359	
886	1607.50		IRQ	BASRAH	IRQ	047E47 30N33	400	CR	304HF1B			ND			0000 2359	
2585	1607.50		TUR	ANTALYA	TUR	030E42 36N53	248	CP	304HF1B			ND			0000 2359	
1059	1607.50		URS	JDANOV	UKR	037E31 47N08	400	CP	304HF1B			ND			0000 2359	
862	1607.50		YUG	BAR	YUG	019E06 42N01	298	CP	304HF1B			ND			0000 2359	
2264	1608.00		ALB	DURRES PT RADIO	ALB	019E26 41N27	198	CP	304HF1B			ND			0000 2359	
27	1608.00		BHR	BAHRAIN	BHR	050E28 26N09	400	CP	304HF1B			ND			0000 2359	
2473	1608.00		CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	198	CR	304HF1B			ND			0000 2359	
1812	1608.00		F	DZAOUDZI	MYT	045E17 12S48	400	CP	304HF1B			ND			0000 2359	
2068	1608.00		F	S DENIS	REU	055E36 20S53	400	CP	304HF1B			ND			0000 2359	
433	1608.00		HOL	SCHEVENINGEN	HOL	004E15 52N06	400	CP	304HF1B			ND			0000 2359	
2884	1608.00		KEN	MOMBASA RADIO	KEN	039E34 03S58	400	CP	304HF1B			ND			0000 2359	
2731	1608.00		OMA	SALALAH	OMA	054E06 17N01	398	CR	304HF1B			ND			0000 2359	
2870	1608.00		TUN	TUNIS RADIO	TUN	010E11 36N53	400	CP	304HF1B			ND			0000 2359	
2511	1608.00		TUR	SAMSUN	TUR	036E20 41N17	248	CP	304HF1B			ND			0000 2359	
1205	1608.00		URS	ASTRAKHAN	URS	047E42 46N55	400	CP	304HF1B			ND			0000 2359	
1400	1608.00		URS	RIGA	URS	024E05 56N57	400	CP	304HF1B			ND			0000 2359	
857	1608.00		YUG	KOPER	YUG	013E44 45N33	298	CP	304HF1B			ND			0000 2359	
2220	1608.50		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	304HF1B			ND			0000 2359	
2860	1608.50		COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	304HF1B			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 30 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
127	1608.50	G		MILLTOWN	G	003W14 57N40	274	CO	304HF1B			ND			0000 2359	
2607	1608.50	GRC		MOURNIES KRITIS	GRC	024E01 35N29	368	CO	304HF1B			ND			0000 2359	
703	1608.50	I		PALERMO RADIO	I	013E22 38N07	400	CP	304HF1B			ND			0000 2359	
884	1608.50	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	304HF1B			ND			0000 2359	
2728	1608.50	OMA		MUSCAT	OMA	058E30 23N37	398	CR	304HF1B			ND			0000 2359	
2332	1608.50	POL		SWARZEWO	POL	018E24 54N46	400	OT	304HF1B			ND			0000 2359	
2654	1609.00	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
2859	1609.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	304HF1B			ND			0000 2359	
128	1609.00	G		NORTH FORELAND RADIO	G	001E25 51N22	238	CP	304HF1B			ND			0000 2359	
2605	1609.00	GRC		SPATA ATTIKIS	GRC	023E55 37N58	368	CO	304HF1B			ND			0000 2359	
707	1609.00	I		TRAPANI RADIO	I	012E30 38N01	400	CP	304HF1B			ND			0000 2359	
2516	1609.00	TUR		ISKENDERUN	TUR	036E07 36N37	248	CP	304HF1B			ND			0000 2359	
2583	1609.00	TUR		ZONGULDAV	TUR	031E48 41N27	248	CP	304HF1B			ND			0000 2359	
1401	1609.00	URS		LIEPAIA	URS	021E00 56N32	400	CO	304HF1B			ND			0000 2359	
2127	1609.50	ALG		ANNABA RADIO	ALG	007E45 36N54	398	CP	304HF1B			ND			0000 2359	
2223	1609.50	BEL		ANTWERPEN RADIO	BEL	004E19 51N16	298	CP	304HF1B			ND			0000 2359	
2465	1609.50	CTI		ABIDJAN RADIO	CTI	003W58 05N21	298	CP	304HF1B			ND			0000 2359	
105	1609.50	G		PORTPATRICK RADIO	G	005W07 54N51	238	CP	304HF1B			ND			0000 2359	
685	1609.50	I		TARANTO	I	017E25 40N26	398	CO	304HF1B			ND			0000 2359	
1676	1609.50	NOR		ROGALAND	NOR	005E34 58N48	368	CP	304HF1B			ND			0000 2359	
2328	1609.50	POL		SOBIESZEWO	POL	018E51 54N21	400	OT	304HF1B			ND			0000 2359	
2447	1609.50	ROU		MANGALIA	ROU	028E35 43N48	400	CP	304HF1B			ND			0000 2359	
2150	1610.00	ALG		BEJAIA RADIO	ALG	005E05 36N45	398	CP	304HF1B			ND			0000 2359	
2474	1610.00	CTI		ABIDJAN SANTE MARINE	CTI	004W01 05N18	198	CR	304HF1B			ND			0000 2359	
2039	1610.00	DNK		BLAAVAND	DNK	008E07 55N33	348	CP	304HF1B			ND			0000 2359	
490	1610.00	E		TARIFA RADIO	E	005W33 36N03	400	CP	304HF1B			ND			0000 2359	
402	1610.00	FNL		VAASA	FNL	021E09 63N19	400	CP	304HF1B			ND			0000 2359	
701	1610.00	I		MESSINA RADIO	I	015E33 38N11	400	CP	304HF1B			ND			0000 2359	
889	1610.00	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	304HF1B			ND			0000 2359	
2284	1610.00	ISR		HAIFA RADIO	ISR	035E00 32N48	400	CP	304HF1B			ND			0000 2359	
386	1610.00	S		STOCKHOLM RADIO	S	014E19 55N29	400	CP	304HF1B			ND			0000 2359	
1206	1610.00	URS		ASTRAKHAN	URS	047E42 46N55	400	CO	304HF1B			ND			0000 2359	
2117	1610.50	ALG		ORAN RADIO	ALG	000W08 35N46	398	CP	304HF1B			ND			0000 2359	
1890	1610.50	F		MARSEILLE	F	005E21 43N19	400	CP	304HF1B			ND			0000 2359	
437	1610.50	HOL		DEN HELDER	HOL	004E45 52N55	400	CP	304HF1B			ND			0000 2359	
693	1610.50	I		BARI RADIO	I	016E59 41N05	400	CP	304HF1B			ND			0000 2359	
2330	1610.50	POL		SUCHACZ	POL	019E28 54N17	400	OT	304HF1B			ND			0000 2359	
376	1610.50	S		HAERNOESAND RADIO	S	018E08 62N43	400	CP	304HF1B			ND			0000 2359	
2514	1610.50	TUR		IZMIR	TUR	027E10 38N24	248	CP	304HF1B			ND			0000 2359	
2512	1610.50	TUR		MERSIN	TUR	034E36 36N49	248	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2581	1610.50	TUR		TRABZON	TUR	039E43 41N00	248	CP	304HF1B			ND			0000 2359	
1571	1610.50	URS		MAKHATCHKALA	URS	047E30 42N59	198	CO	304HF1B			ND			0000 2359	
1778	1611.00	D		WILHELMSHAVEN	D	007E37 53N41	400	CO	304HF1B			ND			0000 2359	
1879	1611.00	F		QUIMPERLE	F	003W30 47N52	400	CP	304HF1B			ND			0000 2359	
121	1611.00	G		CLYDE (TOWARD)	G	004W59 55N52	274	CO	304HF1B			ND			0000 2359	
535	1611.00	MLT		MALTA RADIO	MLT	014E24 35N52	400	CP	304HF1B			ND			0000 2359	
1662	1611.00	NOR		HAMMERFEST	NOR	023E41 70N41	368	CP	304HF1B			ND			0000 2359	
1686	1611.00	NOR		OERLANDET	NOR	009E36 63N41	368	CP	304HF1B			ND			0000 2359	
1410	1611.00	URS		VENTSPILS	URS	021E32 57N24	400	CP	304HF1B			ND			0000 2359	
860	1611.00	YUG		SPLIT	YUG	016E29 43N30	298	CP	304HF1B			ND			0000 2359	
2139	1611.50	ALG		TENES RADIO	ALG	001E18 36N32	298	CP	304HF1B			ND			0000 2359	
1771	1611.50	D		NORDDEICH RADIO	D	007E12 53N38	98	CP	304HF1B			ND			0000 2359	
124	1611.50	G		LANDS END RADIO	G	005W40 50N07	318	CP	304HF1B			ND			0000 2359	
706	1611.50	I		S BENEDETTO TRONTO	I	013E52 42N57	400	CP	304HF1B			ND			0000 2359	
1694	1611.50	NOR		ROGALAND	NOR	005E34 58N48	368	CP	304HF1B			ND			0000 2359	
2313	1611.50	POL		KRYNICA MORSKA	POL	019E26 54N23	400	OT	304HF1B			ND			0000 2359	
1743	1611.50	POR		MONSANTO	POR	009W11 38N44	400	CO	304HF1B			ND			0000 2359	
2868	1611.50	TUN		SFAX RADIO	TUN	010E44 34N44	400	CP	304HF1B			ND			0600 2359	
2515	1611.50	TUR		IZMIR	TUR	027E10 38N24	248	CP	304HF1B			ND			0000 2359	
2513	1611.50	TUR		MERSIN	TUR	034E36 36N49	248	CP	304HF1B			ND			0000 2359	
1005	1611.50	URS		ODESSA	UKR	030E45 46N29	400	CP	304HF1B			ND			0000 2359	
2114	1612.00	ALG		ALGER RADIO	ALG	003E18 36N40	400	CP	304HF1B			ND			0000 2359	
349	1612.00	DDR		RUEGEN	DDR	013E37 54N35	400	CP	304HF1B			ND			0000 2359	
1873	1612.00	F		LE CONQUET	F	004W44 48N20	400	CP	304HF1B			ND			0000 2359	
123	1612.00	G		HEBRIDES RADIO	G	007W02 58N14	318	CP	304HF1B			ND			0000 2359	
682	1612.00	I		ROMA	I	012E22 41N59	398	CO	304HF1B			ND			0000 2359	
2885	1612.00	KEN		MOMBASA RADIO	KEN	039E34 03S58	400	CP	304HF1B			ND			0000 2359	
1684	1612.00	NOR		AALESUND	NOR	006E12 62N28	368	CP	304HF1B			ND			0000 2359	
1520	1612.00	URS		LENINGRAD	URS	030E21 59N59	400	CO	304HF1B			ND			0000 2359	
1138	1612.00	URS		NOVOROSSIISK	URS	037E42 44N42	400	CO	304HF1B			ND			0000 2359	
2218	1612.50	BEL		OOSTENDE RADIO	BEL	002E48 51N11	298	CP	304HF1B			ND			0000 2359	
2658	1612.50	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
2043	1612.50	DNK		SKAGEN	DNK	010E34 57N44	348	CP	304HF1B			ND			0000 2359	
137	1612.50	G		WICK RADIO	G	003W06 58N26	318	CP	304HF1B			ND			0000 2359	
704	1612.50	I		PORTO TORRES RADIO	I	008E23 40N50	400	CP	304HF1B			ND			0000 2359	
686	1612.50	I		TARANTO	I	017E25 40N26	200	CO	304HF1B			ND			0000 2359	
2906	1612.50	TUN		TUNIS RADIO	TUN	001E11 36N53	198	CP	304HF1B			ND			0000 2359	
2517	1612.50	TUR		ISKENDERUN	TUR	036E07 36N37	248	CP	304HF1B			ND			0000 2359	
1435	1612.50	URS		KALININGRAD	URS	020E30 54N45	200	CO	304HF1B			ND			0000 2359	
1386	1612.50	URS		KLAIPEDA	URS	021E12 55N46	200	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1139	1612.50	URS		NOVOROSSIISK	URS	037E42 44N42	400	CP	304HF1B			ND			0000 2359	
2638	1613.00	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
2038	1613.00	DNK		BLAAVAND	DNK	008E07 55N33	348	CP	304HF1B			ND			0000 2359	
131	1613.00	G		PORTPATRICK RADIO	G	005W07 54N51	238	CP	304HF1B			ND			0000 2359	
55	1613.00	G		GIBRALTAR	GIB	005W21 36N07	318	CP	304HF1B			ND			0000 2359	
47	1613.00	G		ST HELENA	SHN	005W43 15S56	318	CP	304HF1B			ND			0000 2359	
1993	1613.00	GRC		ASPROPYRGOS	GRC	023E35 38N02	368	CO	304HF1B			ND			0000 2359	
700	1613.00	I		MAZARA VALLO RADIO	I	012E34 37N38	400	CP	304HF1B			ND			0000 2359	
2569	1613.00	MRC		LAAYOUNE RADIO	MRC	013W13 27N10	398	CP	304HF1B			ND			0000 2359	
2565	1613.00	MRC		NADOR RADIO	MRC	002E56 35N10	298	CP	304HF1B			ND			0000 2359	
2455	1613.00	ROU		SULINA	ROU	029E39 45N09	400	CP	304HF1B			ND			0000 2359	
1554	1613.00	URS		TALLIN	URS	024E46 59N24	400	CP	304HF1B			ND			0000 2359	
2180	1613.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	398	CP	304HF1B			ND			0000 2359	
1810	1613.50	BEL		BRUGGE	BEL	003E15 51N12	400	CO	304HF1B			ND			0000 2359	
2639	1613.50	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
2481	1613.50	CTI		S. PEDRO PORT	CTI	006W37 04N44	198	CR	304HF1B			ND			0000 2359	
503	1613.50	E		FERROL	E	008W16 43N28	398	CO	304HF1B			ND			0000 2359	
2008	1613.50	GRC		LIMNOS	GRC	025E11 39N54	368	CP	304HF1B			ND			0000 2359	
705	1613.50	I		ROMA RADIO	I	012E31 41N48	400	CP	304HF1B			ND			0000 2359	
576	1613.50	IRL		VALENTIA	IRL	010W21 51N56	400	CP	304HF1B			ND			0000 2359	
355	1613.50	S		AELVSBORG RADIO	S	011E30 58N30	398	CO	304HF1B			ND			0000 2359	
358	1613.50	S		HAARSFJAERDEN RADIO	S	018E40 58N59	398	CO	304HF1B			ND			0000 2359	
362	1613.50	S		KARLSKRONA RADIO	S	015E33 56N11	198	CO	304HF1B			ND			0000 2359	
365	1613.50	S		RUDA RADIO	S	016E18 57N12	198	CO	304HF1B			ND			0000 2359	
368	1613.50	S		TINGSTAEDE RADIO	S	018E36 57N44	298	CO	304HF1B			ND			0000 2359	
1111	1613.50	URS		BATUMI	URS	041E19 41N39	400	CP	304HF1B			ND			0000 2359	
2637	1614.00	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
1777	1614.00	D		FLENSBURG	D	009E41 54N48	400	CO	304HF1B			ND			0000 2359	
2550	1614.00	EGY		ALEXANDRIA RADIO	EGY	029E52 31N12	400	CP	304HF1B			ND			0000 2359	
396	1614.00	FNL		HELSINKI	FNL	022E57 59N50	400	CP	304HF1B			ND			0000 2359	
129	1614.00	G		NORWICK RADIO	G	000W45 60N29	318	CP	304HF1B			ND			0000 2359	
134	1614.00	G		ST EVAL	G	005W00 50N28	274	CO	304HF1B			ND			0000 2359	
1997	1614.00	GRC		PIRAEUS	GRC	023E40 37N58	368	CO	304HF1B			ND			0000 2359	
2866	1614.00	TUN		BIZERTE RADIO	TUN	009E53 37N16	400	CP	304HF1B			ND			0600 1900	
2907	1614.00	TUN		TUNIS RADIO	TUN	001E11 36N53	198	CP	304HF1B			ND			0000 2359	
2510	1614.00	TUR		SAMSUN	TUR	036E20 41N17	248	CP	304HF1B			ND			0000 2359	
1308	1614.00	URS		MURMANSK	URS	033E10 68N58	400	CO	304HF1B			ND			0000 2359	
858	1614.00	YUG		RIJEKA	YUG	014E33 45N07	298	CP	304HF1B			ND			0000 2359	
2118	1614.50	ALG		ORAN RADIO	ALG	000W08 35N46	398	CP	304HF1B			ND			0000 2359	
1808	1614.50	BEL		OOSTENDE	BEL	002E58 51N15	400	CO	304HF1B			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 33 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1833	1614.50	F		ARCACHON	F	001W10 44N39	200	CP	304HF1B			ND			0000 2359	
136	1614.50	G		WICK RADIO	G	003W06 58N26	318	CP	304HF1B			ND			0000 2359	
2012	1614.50	GRC		KERKYRA	GRC	019E54 39N37	368	CP	304HF1B			ND			0000 2359	
690	1614.50	I		LA SPEZIA	I	009E43 44N06	398	CO	304HF1B			ND			0000 2359	
2315	1614.50	POL		LAZY	POL	016E12 54N18	400	OT	304HF1B			ND			0000 2359	
2451	1614.50	ROU		TULCEA	ROU	028E50 45N12	400	CP	304HF1B			ND			0000 2359	
2113	1615.00	ALG		ALGER RADIO	ALG	003E18 36N40	400	CP	304HF1B			ND			0000 2359	
2636	1615.00	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
2042	1615.00	DNK		LYNGBY	DNK	011E25 55N50	348	CP	304HF1B			ND			0000 2359	
2045	1615.00	DNK		TORSHAVN	DNK	006W47 62N01	348	CP	304HF1B			ND			0000 2359	
400	1615.00	FNL		HELSINKI	FNL	025E02 60N09	400	CP	304HF1B			ND			0000 2359	
122	1615.00	G		CULLERCOATS RADIO	G	001W28 55N04	318	CP	304HF1B			ND			0000 2359	
2004	1615.00	GRC		ATHINAI	GRC	023E53 38N00	368	CP	304HF1B			ND			0000 2359	
695	1615.00	I		CIVITAVECCHIA RADIO	I	011E49 42N01	400	CP	304HF1B			ND			0000 2359	
2459	1615.00	ISR		ELAT RADIO	ISR	034E56 29N30	400	CP	304HF1B			ND			0000 2359	
1748	1615.00	POR		HORTA	AZR	028W38 38N32	400	CO	304HF1B			ND			0000 2359	
940	1615.00	URS		IALTA	UKR	034E10 44N39	400	CP	304HF1B			ND			0000 2359	
2179	1615.50	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	398	CP	304HF1B			ND			0000 2359	
472	1615.50	E		CORUNA RADIO	E	008W27 43N22	400	CP	304HF1B			ND			0000 2359	
399	1615.50	FNL		HELSINKI	FNL	025E02 60N09	400	CP	304HF1B			ND			0000 2359	
2016	1615.50	GRC		HERAKLION	GRC	025E45 35N19	368	CP	304HF1B			ND			0000 2359	
434	1615.50	HOL		SCHEVENINGEN	HOL	004E15 52N06	196	CP	304HF1B			ND			0000 2359	
687	1615.50	I		PALOMBARA	I	015E08 37N10	398	CO	304HF1B			ND			0000 2359	
709	1615.50	I		VENEZIA RADIO	I	012E21 45N26	400	CP	304HF1B			ND			0000 2359	
573	1615.50	IRL		HAULBOWLINE	IRL	008W18 51N50	400	CO	304HF1B			ND			0000 2359	
1673	1615.50	NOR		BODOE	NOR	014E23 67N16	368	CP	304HF1B			ND			0000 2359	
2334	1615.50	POL		SWINOUJSCIE	POL	014E15 53N52	400	OT	304HF1B			ND			0000 2359	
2440	1615.50	ROU		CONSTANTA	ROU	028E37 44N06	400	CP	304HF1B			ND			0000 2359	
1343	1615.50	URS		ARKHANGHELSK	URS	040E37 64N36	400	CO	304HF1B			ND			0000 2359	
1761	1616.00	D		NORDDEICH RADIO	D	007E12 53N38	400	CP	304HF1B			ND			0000 2359	
458	1616.00	E		CABO DE LA NAO RADIO	E	000E11 38N43	400	CP	304HF1B			ND			0000 2359	
1883	1616.00	F		S NAZAIRE	F	002W06 47N21	400	CP	304HF1B			ND			0000 2359	
2606	1616.00	GRC		SPATA ATTIKIS	GRC	023E55 37N58	368	CO	304HF1B			ND			0000 2359	
691	1616.00	I		ANCONA RADIO	I	013E28 43N36	400	CP	304HF1B			ND			0000 2359	
699	1616.00	I		LIVORNO RADIO	I	010E11 43N29	400	CP	304HF1B			ND			0000 2359	
579	1616.00	IRL		MALIN HEAD	IRL	007W21 55N22	400	CP	304HF1B			ND			0000 2359	
888	1616.00	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	304HF1B			ND			0000 2359	
2285	1616.00	ISR		HAIFA NAVAL RADIO	ISR	035E03 32N49	400	CO	304HF1B			ND			0000 2359	
2886	1616.00	KEN		MOMBASA RADIO	KEN	039E34 03S58	400	CP	304HF1B			ND			0000 2359	
383	1616.00	S		STOCKHOLM RADIO	S	018E43 59N17	400	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1479	1616.00	URS		BELOMORSK	URS	034E41 64N36	400	CO	304HF1B			ND			0000 2359	
1784	1616.50	D		NEUSTADT	D	010E48 54N05	348	CO	304HF1B			ND			0000 2359	
499	1616.50	E		CARTAGENA	E	000W58 37N36	398	CO	304HF1B			ND			0000 2359	
125	1616.50	G		MILLTOWN	G	003W14 57N40	274	CO	304HF1B			ND			0000 2359	
132	1616.50	G		ST EVAL	G	005W00 50N28	274	CO	304HF1B			ND			0000 2359	
689	1616.50	I		LA MADDALENA	I	009E20 41N13	398	CO	304HF1B			ND			0000 2359	
1553	1616.50	URS		TALLIN	URS	024E46 59N24	400	CO	304HF1B			ND			0000 2359	
2138	1617.00	ALG		TENES RADIO	ALG	001E18 36N32	298	CP	304HF1B			ND			0000 2359	
2635	1617.00	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
1762	1617.00	D		KIEL RADIO	D	010E08 54N26	400	CP	304HF1B			ND			0000 2359	
463	1617.00	E		CABO PENAS RADIO	E	005W51 43N39	400	CP	304HF1B			ND			0000 2359	
1893	1617.00	F		GRASSE	F	006E55 43N40	400	CP	304HF1B			ND			0000 2359	
130	1617.00	G		PORTLAND	G	002W27 50N51	274	CO	304HF1B			ND			0000 2359	
135	1617.00	G		STONEHAVEN RADIO	G	002W13 56N57	238	CP	304HF1B			ND			0000 2359	
698	1617.00	I		LAMPEDUSA RADIO	I	012E36 35N30	400	CP	304HF1B			ND			0000 2359	
2570	1617.00	MRC		CASABLANCA RADIO	MRC	007W34 33N34	398	CP	304HF1B			ND			0000 2359	
2543	1617.00	MRC		DAKHLA RADIO	MRC	015W56 23N42	398	CP	304HF1B			ND			0000 2359	
2587	1617.00	TUR		CANAKKALE	TUR	026E24 40N08	248	CP	304HF1B			ND			0000 2359	
1077	1617.00	URS		IZMAIL	UKR	028E51 45N20	198	CP	304HF1B			ND			0000 2359	
1518	1617.00	URS		LENINGRAD	URS	030E21 59N59	400	CP	304HF1B			ND			0000 2359	
1409	1617.00	URS		VENTSPILS	URS	021E32 57N24	98	CO	304HF1B			ND			0000 2359	
861	1617.00	YUG		DUBROVNIK	YUG	018E07 42N38	298	CP	304HF1B			ND			0000 2359	
2217	1617.50	BEL		OOSTENDE RADIO	BEL	002E48 51N11	400	CP	304HF1B			ND			0000 2359	
515	1617.50	E		ARRECIFE RADIO	CNR	013W31 29N08	400	CP	304HF1B			ND			0000 2359	
453	1617.50	E		CABO DE GATA RADIO	E	002W12 36N43	400	CP	304HF1B			ND			0000 2359	
702	1617.50	I		NAPOLI RADIO	I	014E14 40N50	400	CP	304HF1B			ND			0000 2359	
2326	1617.50	POL		SARBINOWO	POL	015E57 54N16	400	OT	304HF1B			ND			0000 2359	
2221	1618.00	BEL		ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	304HF1B			ND			0000 2359	
522	1618.00	E		LAS PALMAS RADIO	CNR	015W36 27N45	400	CP	304HF1B			ND			0000 2359	
495	1618.00	E		CADIZ	E	006W12 36N15	398	CO	304HF1B			ND			0000 2359	
1834	1618.00	F		ARCACHON	F	001W10 44N39	200	CP	304HF1B			ND			0000 2359	
2017	1618.00	GRC		RHODOS	GRC	028E12 36N26	368	CP	304HF1B			ND			0000 2359	
684	1618.00	I		ANCONA	I	013E31 43N37	398	CO	304HF1B			ND			0000 2359	
379	1618.00	S		HAERNOESAND RADIO	S	021E36 64N28	400	CP	304HF1B			ND			0000 2359	
2871	1618.00	TUN		TUNIS RADIO	TUN	010E11 36N53	200	CP	304HF1B			ND			0000 2359	
1385	1618.00	URS		KLAIPEDA	URS	021E12 55N46	400	CO	304HF1B			ND			0000 2359	
2216	1618.50	BEL		OOSTENDE RADIO	BEL	002E48 51N11	400	CP	304HF1B			ND			0000 2359	
2044	1618.50	DNK		ROENNE	DNK	015E07 55N03	348	CP	304HF1B			ND			0000 2359	
483	1618.50	E		MACHICHACO RADIO	E	002W45 43N27	400	CP	304HF1B			ND			0000 2359	
2551	1618.50	EGY		KOSSEIR RADIO	EGY	034E17 26N06	400	CP	304HF1B			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
887	1618.50	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	304HF1B			ND			0000 2359	
1698	1618.50	NOR		HAMMERFEST	NOR	023E41 70N41	368	CP	304HF1B			ND			0000 2359	
2867	1618.50	TUN		BIZERTE RADIO	TUN	009E53 37N16	400	CP	304HF1B			ND			0600 1900	
2869	1618.50	TUN		SFAX RADIO	TUN	010E44 34N44	400	CP	304HF1B			ND			0600 2359	
2519	1618.50	TUR		ISTANBUL	TUR	028E56 41N04	398	CP	304HF1B			ND			0000 2359	
2640	1619.00	BEN		COTONOU	BEN	002E28 06N22	400	CP	304HF1B			ND			0000 2359	
530	1619.00	E		TENERIFE RADIO	CNR	016W20 28N25	400	CP	304HF1B			ND			0000 2359	
507	1619.00	E		BAGUR RADIO	E	003E13 41N58	400	CP	304HF1B			ND			0000 2359	
468	1619.00	E		CHIPIONA RADIO	E	006W25 36N42	400	CP	304HF1B			ND			0000 2359	
1897	1619.00	F		BOULOGNE MER	F	001E38 50N43	400	CP	304HF1B			ND			0000 2359	
2018	1619.00	GRC		CHIOS	GRC	026E08 38N19	368	CP	304HF1B			ND			0000 2359	
692	1619.00	I		AUGUSTA RADIO	I	015E13 37N13	400	CP	304HF1B			ND			0000 2359	
708	1619.00	I		TRIESTE RADIO	I	013E46 45N40	400	CP	304HF1B			ND			0000 2359	
36	1619.00	JOR		AQABA RADIO	JOR	034E59 29N33	400	CP	304HF1B			ND			0000 2359	
1678	1619.00	NOR		VARDOE	NOR	031E05 70N22	368	CP	304HF1B			ND			0000 2359	
2324	1619.00	POL		POBIEROWO	POL	014E54 54N04	400	OT	304HF1B			ND			0000 2359	
1532	1619.00	URS		PETROZAVODSK	URS	034E19 61N48	400	CO	304HF1B			ND			0000 2359	
513	1619.50	E		LAS PALMAS	CNR	015W26 28N09	398	CO	304HF1B			ND			0000 2359	
450	1619.50	E		BARCELONA	E	001E55 41N17	400	CP	304HF1B			ND			0000 2359	
1872	1619.50	F		LE CONQUET	F	004W44 48N20	400	CP	304HF1B			ND			0000 2359	
398	1619.50	FNL		VAASA	FNL	021E09 63N19	400	CP	304HF1B			ND			0000 2359	
120	1619.50	G		AKROTIRI	CYP	032E56 34N36	148	CO	304HF1B			ND			0000 2359	
435	1619.50	HOL		NES	HOL	006E04 53N24	400	CP	304HF1B			ND			0000 2359	
688	1619.50	I		NAPOLI	I	014E14 40N42	398	CO	304HF1B			ND			0000 2359	
1742	1619.50	POR		MONSANTO	POR	009W11 38N44	400	CO	304HF1B			ND			0000 2359	
2518	1619.50	TUR		ISTANBUL	TUR	028E56 41N04	398	CP	304HF1B			ND			0000 2359	
1436	1619.50	URS		KALININGRAD	URS	020E30 54N45	400	CP	304HF1B			ND			0000 2359	
2097	1620.00	ALG		ANNABA RADIO	ALG	007E45 36N54	398	CP	304HF1B			ND			0000 2359	
2861	1620.00	COG		POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	304HF1B			ND			0000 2359	
1896	1620.00	F		BOULOGNE MER	F	001E38 50N43	400	CP	304HF1B			ND			0000 2359	
2608	1620.00	GRC		MOURNIES KRITIS	GRC	024E01 35N29	368	CO	304HF1B			ND			0000 2359	
2286	1620.00	ISR		HAIFA RADIO	ISR	035E00 32N48	400	CP	304HF1B			ND			0000 2359	
2887	1620.00	KEN		MOMBASA RADIO	KEN	039E34 03S58	400	CP	304HF1B			ND			0000 2359	
2534	1620.00	KWT		RAS ALZOOR	KWT	048E56 28N28	400	CP	304HF1B			ND			0300 2100	
2319	1620.00	POL		MIEDZYWODZIE	POL	014E42 54N01	400	OT	304HF1B			ND			0000 2359	
2436	1620.00	ROU		AGIGEA	ROU	028E39 44N06	400	CP	304HF1B			ND			0000 2359	
1239	1620.00	URS		BAKU	URS	049E45 40N20	400	CP	304HF1B			ND			0000 2359	
859	1620.00	YUG		ZADAR	YUG	015E14 44N07	298	CP	304HF1B			ND			0000 2359	
2263	1620.50	ALB		DURRES PT RADIO	ALB	019E26 41N27	198	CP	304HF1B			ND			0000 2359	
2112	1620.50	ALG		ALGER RADIO	ALG	003E18 36N40	400	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1876	1620.50	F	S MALO	F	002W02 48N38	400	CP	304HF1B			ND				0000 2359	
697	1620.50	I	GENOVA RADIO	I	008E56 44N25	400	CP	304HF1B			ND				0000 2359	
2423	1620.50	MLT	XLOKK RADIO	MLT	014E32 35N49	400	CP	304HF1B			ND				0000 2359	
372	1620.50	S	GOETEBORG RADIO	S	011E56 57N28	400	CP	304HF1B			ND				0000 2359	
1004	1620.50	URS	ODESSA	UKR	030E45 46N29	400	CO	304HF1B			ND				0000 2359	
1307	1620.50	URS	MURMANSK	URS	033E10 68N58	400	CP	304HF1B			ND				0000 2359	
1399	1620.50	URS	RIGA	URS	024E05 56N57	200	CO	304HF1B			ND				0000 2359	
2086	1636.40	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	2K80J3E			ND				0000 2359	
1917	1636.40	ARS	DAMMAMRADIO	ARS	050E06 26N26	298	CP	2K80J3E			ND				0000 2359	
1918	1636.40	ARS	JEDDAHRADIO	ARS	039E10 21N23	298	CP	2K80J3E			ND				0000 2359	
2634	1636.40	BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND				0000 2359	
2055	1636.40	DNK	BLAAVAND	DNK	008E07 55N33	348	CP	2K80J3E			ND				0000 2359	
1804	1636.40	ETH	ASSAB	ETH	042E45 13N01	198	CP	2K80J3E			ND				0000 2359	
1869	1636.40	F	LE CONQUET	F	004W44 48N20	400	CP	2K80J3E			ND				0000 2359	
1877	1636.40	F	QUIMPERLE	F	003W30 47N52	400	CP	2K80J3E			ND				0000 2359	
2066	1636.40	F	S DENIS	REU	055E36 20S54	400	CP	2K80J3E			ND				0000 2359	
421	1636.40	FNL	PORI	FNL	021E27 61N37	298	CP	2K80J3E			ND				0000 2359	
40	1636.40	G	ASCENSION	ASC	014W25 07S56	198	CP	2K80J3E			ND				0000 2359	
2604	1636.40	GRC	SPATA ATTIKIS	GRC	023E55 37N58	368	CO	2K80J3E			ND				0000 2359	
766	1636.40	I	LAMPEDUSA RADIO	I	012E36 35N30	198	CP	2K80J3E			ND				0000 2359	
834	1636.40	I	VENEZIA RADIO	I	012E21 45N26	400	CP	2K80J3E			ND				0000 2359	
2547	1636.40	MRC	TANTAN RADIO	MRC	011W07 28N35	198	CP	2K80J3E			ND				0000 2359	
1732	1636.40	NOR	HAMMERFEST	NOR	025E54 70N59	368	CP	2K80J3E			ND				0800 1800	
1340	1636.40	URS	ARKHANGHELSK	URS	040E37 64N36	400	CP	2K80J3E			ND				0000 2359	
2387	1639.40	AGL	SOYO	AGL	012E12 06S07	400	CP	304HF1B			ND				0000 2359	
2364	1639.40	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	2K80J3E			ND				0000 2359	
2665	1639.40	CME	KRIBI	CME	009E43 02N53	398	CV	2K80J3E			ND				0000 2359	
2690	1639.40	E	LAREDO	E	003W21 43N25	368	CV	2K80J3E			ND				0000 2359	
2808	1639.40	EGY	KOSSEIR RADIO	EGY	034E17 27N06	400	CP	2K80J3E			ND				0400 2200	
1803	1639.40	ETH	MASSAWA	ETH	039E21 15N37	198	CP	2K80J3E			ND				0000 2359	
416	1639.40	FNL	VAASA	FNL	021E09 63N19	298	CP	2K80J3E			ND				0000 2359	
143	1639.40	G	HEBRIDES RADIO	G	007W02 58N14	318	CP	2K80J3E			ND				0000 2359	
157	1639.40	G	NORTH FORELAND RADIO	G	001E25 51N22	118	CP	2K80J3E			ND				0000 2359	
1989	1639.40	GRC	CHIOS	GRC	026E08 38N19	368	CP	2K80J3E			ND				0000 2359	
798	1639.40	I	PALERMO RADIO	I	013E22 38N07	398	CP	2K80J3E			ND				0000 2359	
1647	1639.40	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND				0000 2359	
2572	1639.40	MRC	CASABLANCA RADIO	MRC	007W34 33N34	400		2K80J3E			ND					
2311	1639.40	POL	KOLOBRZEG	POL	015E34 54N11	348	CV	2K80J3E			ND				0000 2359	
2165	1642.40	ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	2K80J3E			ND				0000 2359	
1919	1642.40	ARS	DAMMAMRADIO	ARS	050E06 26N26	298	CP	2K80J3E			ND				0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2632	1642.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
1968	1642.40		BUL	BOURGAS RADIO	BUL	027E29 42N30	400	CO	2K80J3E			ND			0000 2359	
2049	1642.40		DNK	SKAGEN	DNK	010E34 57N44	348	CP	2K80J3E			ND			0000 2359	
2053	1642.40		DNK	TORSHAVN	DNK	006W47 62N01	348	CP	2K80J3E			ND			0000 2359	
1901	1642.40		ETH	MASSAWA	ETH	039E21 15N37	198	CP	2K80J3E			ND			0000 2359	
156	1642.40		G	NITON RADIO	G	001W18 50N35	318	CP	2K80J3E			ND			0000 2359	
1641	1642.40		MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
2573	1642.40		MRC	CASABLANCA RADIO	MRC	007W34 33N34	400	CP	2K80J3E			ND				
2582	1642.40		TUR	TRABZON	TUR	039E43 41N00	248	CP	2K80J3E			ND			0000 2359	
1505	1642.40		URS	PETROKREPOST	URS	031E00 59N54	400	CO	2K80J3E			ND			0000 2359	
1398	1642.40		URS	RIGA	URS	024E05 56N57	400	CP	2K80J3E			ND			0000 2359	
1419	1642.40		URS	SVETLVI	URS	020E06 54N40	92	CO	2K80J3E			ND			0000 2359	
1283	1642.40		URS	TCHELEKEN	URS	053E24 39N24	400	CO	2K80J3E			ND			0000 2359	
851	1642.40		YUG	KOPER	YUG	013E44 45N33	298	CP	2K80J3E			ND			0000 2359	
2381	1645.40		AGL	NAMIBE	AGL	012E09 15S11	400	CP	304HF1B			ND			0000 2359	
2680	1645.40		CME	LIMBE	CME	009E22 04N02	398	CP	2K80J3E			ND			0000 2359	
2466	1645.40		CTI	ABIDJAN RADIO	CTI	003W58 05N21	298	CP	2K80J3E			ND			0000 2359	
1793	1645.40		D	BORKUM	D	006E39 53N35	151	CO	2K80J3E			ND			0000 2359	
1794	1645.40		D	BREMERHAVEN	D	008E35 53N33	77	CO	2K80J3E			ND			0000 2359	
1791	1645.40		D	BUESUM	D	008E50 54N10	90	CO	2K80J3E			ND			0000 2359	
1790	1645.40		D	EMDEN	D	007E12 53N21	83	CO	2K80J3E			ND			0000 2359	
1792	1645.40		D	HUSUM	D	009E03 54N28	96	CO	2K80J3E			ND			0000 2359	
1787	1645.40		D	LEER	D	007E27 53N13	53	CO	2K80J3E			ND			0000 2359	
1795	1645.40		D	NORDERNEY	D	007E08 53N42	125	CO	2K80J3E			ND			0000 2359	
1788	1645.40		D	OLDENBURG	D	008E12 53N08	109	CO	2K80J3E			ND			0000 2359	
1789	1645.40		D	WILHELMSHAVEN	D	008E07 53N31	70	CO	2K80J3E			ND			0000 2359	
2905	1645.40		DJI	DJIBOUTI	DJI	043E08 11N36	400	CP	2K80J3E			ND			0000 2359	
2483	1645.40		E	ARRECIFE	CNR	013W31 29N08	368	CP	2K80J3E			ND			0000 2359	
498	1645.40		E	CARTAGENA	E	000W58 37N36	398	CO	2K80J3E			ND			0000 2359	
415	1645.40		FNL	MARIEHAMN RV	FNL	019E56 60N05	298	CO	2K80J3E			ND			0000 2359	
49	1645.40		G	ST HELENA	SHN	005W43 15S56	298	CP	2K80J3E			ND			0000 2359	
2904	1645.40		GUI	KONAKRI	GUI	013W37 09N30	400	CR	2K80J3E			ND			0000 2359	
769	1645.40		I	LIVORNO RADIO	I	010E11 43N29	198	CP	2K80J3E			ND			0000 2359	
718	1645.40		I	PALOMBARA	I	015E08 37N10	218	CO	2K80J3E			ND			0000 2359	
577	1645.40		IRL	MALIN HEAD	IRL	007W21 55N22	368	CP	2K80J3E			ND			0000 2359	
1638	1645.40		MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
2598	1645.40		TUR	IZMIR	TUR	027E10 38N24	248	CP	2K80J3E			ND			0000 2359	
2600	1645.40		TUR	SAMSUN	TUR	036E20 41N17	248	CP	2K80J3E			ND			0000 2359	
2361	1645.40		UAE	FUJAIRAH	UAE	056E20 25N09	398	CV	2K80J3E			ND			0000 2359	
1309	1645.40		URS	MURMANSK	URS	033E10 68N58	400	CO	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2094	1648.40		ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	2K80J3E			ND			0000 2359	
1807	1648.40		BEL	OOSTENDE	BEL	002E58 51N15	400	CO	2K80J3E			ND			0000 2359	
1975	1648.40		BUL	PRIMORSKO RADIO	BUL	027E47 42N16	400	CO	2K80J3E			ND			0000 2359	
470	1648.40		E	CORUNA RADIO	E	008W27 43N22	368	CP	2K80J3E			ND			0000 2359	
41	1648.40		G	ASCENSION	ASC	014W25 07S56	198	CP	2K80J3E			ND			0000 2359	
320	1648.40		G	PENTLAND COASTGUARD	G	002W57 58N59	179	OT	2K80J3E			ND			0000 2359	
712	1648.40		I	TARANTO	I	017E25 40N26	218	CO	2K80J3E			ND			0000 2359	
1642	1648.40		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
1632	1648.40		MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
2546	1648.40		MRC	MDIQ RADIO	MRC	005W20 35N40	98		2K80J3E			ND			0000 2359	
356	1648.40		S	AELVSBORG RADIO	S	011E30 58N30	198	CO	2K80J3E			ND			0000 2359	
2350	1648.40		UAE	DUBAI	UAE	055E16 25N14	398	CV	2K80J3E			ND			0000 2359	
1531	1648.40		URS	PETROZAVODSK	URS	034E19 61N48	400	CO	2K80J3E			ND			0000 2359	
2385	1651.40		AGL	CABINDA	AGL	012E11 05S34	400	CP	304HF1B			ND			0000 2359	
2631	1651.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
343	1651.40		DDR	RUEGEN	DDR	013E37 54N35	400	CP	2K80J3E			ND			0000 2359	
2693	1651.40		E	CEUTA	E	005W16 35N53	368	CP	2K80J3E			ND			0000 2359	
1865	1651.40		F	BREST BALISAGE	F	004W29 48N23	364	OT	2K80J3E			ND			0700 1630	
169	1651.40		G	STONEHAVEN RADIO	G	002W13 56N57	238	CP	2K80J3E			ND			0000 2359	
796	1651.40		I	PALERMO RADIO	I	013E22 38N07	398	CP	2K80J3E			ND			0000 2359	
875	1651.40		IRQ	BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
2075	1651.40		ISL	HORNAFJOERDUR RADIO	ISL	015W13 64N15	400	CP	2K80J3E			ND			0000 2359	
2619	1651.40		KEN	MOMBASA RADIO	KEN	039E44 03S58	400	CP	2K80J3E			ND			0000 2359	
2896	1651.40		LBY	TOBRUK	LBY	023E59 32N02	400	CP	2K80J3E			ND			0000 2359	
1630	1651.40		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
1644	1651.40		MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
2246	1651.40		OMA	MUSSANDAM	OMA	056E21 26N22	398	CO	2K80J3E			ND			0000 2359	
2448	1651.40		ROU	MANGALIA	ROU	028E35 43N48	400	CP	2K80J3E			ND			0000 2359	
1446	1651.40		URS	NARVA-IESSU	URS	028E12 59N22	231	CO	2K80J3E			ND			0000 2359	
2476	1654.40		CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	198	CR	2K80J3E			ND			0000 2359	
509	1654.40		E	BARCELONA RADIO	E	001E55 41N17	368	CP	2K80J3E			ND			0000 2359	
411	1654.40		FNL	HELSINKI	FNL	025E02 60N09	298	CP	2K80J3E			ND			0000 2359	
304	1654.40		G	FERRIS POINT LSTN	G	005W47 54N41	148	OT	2K80J3E			ND			0000 2359	
445	1654.40		HOL	VLISSINGEN	HOL	003E37 51N27	179	CP	2K80J3E			ND			0000 2359	
732	1654.40		I	BARI RADIO	I	016E59 41N05	398	CP	2K80J3E			ND			0000 2359	
879	1654.40		IRQ	BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1634	1654.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	2K80J3E			ND			0000 2359	
1690	1654.40		NOR	BERGEN	NOR	005E22 60N25	368	CP	2K80J3E			ND			0000 2359	
1729	1654.40		NOR	HARSTAD	NOR	016E04 69N18	368	CP	2K80J3E			ND			0800 1800	
591	1654.40		POR	FIGUEIRA DA FOZ	POR	008W50 40N08	198	CP	2K80J3E			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
592	1654.40	POR		OLHAO	POR	007W50 37N02	198	CP	2K80J3E			ND			0000 2359	
2396	1654.40	TUN		MAHDIA RADIO 2 MDN	TUN	011E04 35N30	400	CO	2K80J3E			ND			0600 1900	
1113	1654.40	URS		BATUMI	URS	041E19 41N39	400	CP	2K80J3E			ND			0000 2359	
1354	1654.40	URS		MEZEN	URS	044E17 65N51	400	CO	2K80J3E			ND			0000 2359	
1351	1654.40	URS		NARIAN-MAR	URS	053E00 67N39	400	CO	2K80J3E			ND			0000 2359	
2383	1657.40	AGL		LOBITO	AGL	013E33 12S22	400	CP	304HF1B			ND			0000 2359	
1779	1657.40	D		FLENSBURG	D	009E41 54N48	400	CO	2K80J3E			ND			0000 2359	
1781	1657.40	D		WILHELMSHAVEN	D	007E37 53N41	400	CO	2K80J3E			ND			0000 2359	
2709	1657.40	E		AYAMONTE	E	007W24 37N13	368	CV	2K80J3E			ND			0000 2359	
412	1657.40	FNL		HELSINKI RV	FNL	024E50 60N13	298	CO	2K80J3E			ND			0000 2359	
233	1657.40	G		BURRA FIRTH	G	000W53 60N48	148	OT	2K80J3E			ND			0900 1700	
322	1657.40	G		RATHLIN EAST LSTN	G	006W10 55N18	148	OT	2K80J3E			ND			0000 2359	
2814	1657.40	GNE		BATA	GNE	009E44 01N49	400	CO	2K80J3E			ND			0000 2359	
1981	1657.40	GRC		LIMNOS	GRC	025E11 39N54	368	CP	2K80J3E			ND			0000 2359	
764	1657.40	I		LAMPEDUSA RADIO	I	012E36 35N30	398	CP	2K80J3E			ND			0000 2359	
876	1657.40	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1635	1657.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
2590	1657.40	TUR		ISKENDERUN	TUR	036E07 36N37	248	CP	2K80J3E			ND			0000 2359	
1102	1657.40	URS		TEMRIUK	URS	037E24 45N17	92	OT	2K80J3E			ND			0000 2359	
852	1657.40	YUG		RIJEKA	YUG	014E33 45N07	298	CP	2K80J3E			ND			0000 2359	
2694	1660.40	E		BARBATE	E	005W55 36N11	368	CV	2K80J3E			ND			0000 2359	
148	1660.40	G		JERSEY RADIO	G	002W12 49N14	148	CP	2K80J3E			ND			0000 2359	
160	1660.40	G		NORWICK RADIO	G	000W45 60N29	318	CP	2K80J3E			ND			0000 2359	
1990	1660.40	GRC		CHIOS	GRC	026E08 38N19	368	CP	2K80J3E			ND			0000 2359	
441	1660.40	HOL		IJMUIDEN	HOL	004E35 52N28	98	CP	2K80J3E			ND			0000 2359	
758	1660.40	I		GENOVA RADIO	I	008E56 44N25	398	CP	2K80J3E			ND			0000 2359	
2081	1660.40	ISL		REYKJAVIK RADIO	ISL	022W02 64N09	400	CP	2K80J3E			ND			0000 2359	
1649	1660.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	400	CP	2K80J3E			ND			0000 2359	
1652	1660.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	400	CP	2K80J3E			ND			0000 2359	
1655	1660.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	400	CP	2K80J3E			ND			0000 2359	
1648	1660.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
1651	1660.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
1654	1660.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
1650	1660.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
1653	1660.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
1656	1660.40	MOZ		NACALA RADIO	MOZ	040E39 14S34	400	CP	2K80J3E			ND			0000 2359	
2835	1660.40	NIG		BURUTU	NIG	005E30 05N21	48	CV	2K80J3E			ND			0000 2359	
1688	1660.40	NOR		BODOE	NOR	014E23 67N16	368	CP	2K80J3E			ND			0000 2359	
2347	1660.40	POL		WLADYSLAWOWO	POL	018E25 54N45	400	CV	2K80J3E			ND			0000 2359	
2389	1660.40	TUN		GABES RADIO	TUN	007E45 33N53	400	CP	2K80J3E			ND			0600 1900	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2354	1660.40	UAE		ABUDHABI	UAE	054E17 24N23	198	CV	2K80J3E			ND			0000 2359	
2367	1663.40	BHR		BAHRAIN	BHR	050E35 26N14	400	CP	2K80J3E			ND			0000 2359	
1973	1663.40	BUL		BOURGAS RADIO	BUL	027E29 42N30	400	CO	2K80J3E			ND			0000 2359	
520	1663.40	E		LAS PALMAS RADIO	CNR	015W36 27N45	368	CP	2K80J3E			ND			0000 2359	
505	1663.40	E		BAGUR RADIO	E	003E13 41N58	368	CP	2K80J3E			ND			0000 2359	
296	1663.40	G		ALDERNEY	G	002W12 49N43	98	OT	2K80J3E			ND			0000 2359	
297	1663.40	G		BRIXHAM COASTGUARD	G	004W13 50N19	179	OT	2K80J3E			ND			0000 2359	
298	1663.40	G		CASQUETS LSTN	G	002W22 49N43	148	OT	2K80J3E			ND			0000 2359	
301	1663.40	G		DOWSING LSTN	G	000E50 53N34	148	OT	2K80J3E			ND			0000 2359	
302	1663.40	G		DUDGEON LSTN	G	001E13 53N15	148	OT	2K80J3E			ND			0000 2359	
303	1663.40	G		FALMOUTH COASTGUARD	G	005W03 50N09	179	OT	2K80J3E			ND			0000 2359	
305	1663.40	G		GUERNSEY	G	002W32 49N27	98	OT	2K80J3E			ND			0000 2359	
306	1663.40	G		HAISBOROUGH	G	001E34 52N58	148	OT	2K80J3E			ND			0000 2359	
307	1663.40	G		HANOIS LSTN	G	002W42 49N26	148	OT	2K80J3E			ND			0000 2359	
916	1663.40	G		HUMBER LSTN	G	000E21 53N36	148	OT	2K80J3E			ND			0000 2359	
311	1663.40	G		INNER DOWSING LSTN	G	000E33 53N19	148	OT	2K80J3E			ND			0000 2359	
312	1663.40	G		IS OF JETHOU	G	002W27 49N27	98	OT	2K80J3E			ND			0000 2359	
315	1663.40	G		MAIDENS LSTN	G	005W44 54N56	148	OT	2K80J3E			ND			0000 2359	
316	1663.40	G		MEW ISLAND LSTN	G	005W31 54N42	148	OT	2K80J3E			ND			0000 2359	
319	1663.40	G		NEWARP LSTN	G	001E55 52N48	148	OT	2K80J3E			ND			0000 2359	
323	1663.40	G		ROYAL SOVEREIGN LSTN	G	000E26 50N43	148	OT	2K80J3E			ND			0000 2359	
325	1663.40	G		SHOREHAM COASTGUARD	G	000W15 50N49	179	OT	2K80J3E			ND			0000 2359	
326	1663.40	G		SMITHS KNOLL LSTN	G	002E18 52N43	148	OT	2K80J3E			ND			0000 2359	
327	1663.40	G		SOUTH ROCK LSTN	G	005W22 54N24	148	OT	2K80J3E			ND			0000 2359	
332	1663.40	G		YARMOUTH COASTGUARD	G	001E19 52N56	179	OT	2K80J3E			ND			0000 2359	
726	1663.40	I		AUGUSTA RADIO	I	015E13 37N13	398	CP	2K80J3E			ND			0000 2359	
805	1663.40	I		S BENEDETTO TRONTO	I	013E52 42N57	198	CP	2K80J3E			ND			0000 2359	
545	1663.40	IRL		BAILY LSTN	IRL	006W03 53N22	148	OT	2K80J3E			ND			0000 2359	
546	1663.40	IRL		BALLYCOTTON LSTN	IRL	007W59 51N50	148	OT	2K80J3E			ND			0000 2359	
547	1663.40	IRL		BLACKROCK MAYO LSTN	IRL	010W19 54N04	148	OT	2K80J3E			ND			0000 2359	
548	1663.40	IRL		BLACKSOD LSTN	IRL	010W03 54N05	148	OT	2K80J3E			ND			0000 2359	
549	1663.40	IRL		BULL ROCK LSTN	IRL	010W18 51N36	148	OT	2K80J3E			ND			0000 2359	
550	1663.40	IRL		CASTLETOWN HELIBASE	IRL	009W54 51N39	148	OT	2K80J3E			ND			0000 2359	
551	1663.40	IRL		CLIFDEN HELIBASE	IRL	009W09 53N29	148	OT	2K80J3E			ND			0000 2359	
552	1663.40	IRL		CONINGBEG LSTN	IRL	006W39 52N02	148	OT	2K80J3E			ND			0000 2359	
561	1663.40	IRL		DUN LAOGHAIRE DEPOT	IRL	006W08 53N17	148	OT	2K80J3E			ND			0000 2359	
553	1663.40	IRL		EAGLE ISLAND LSTN	IRL	010W06 54N17	148	OT	2K80J3E			ND			0000 2359	
554	1663.40	IRL		EERAGH LSTN	IRL	009W51 53N08	148	OT	2K80J3E			ND			0000 2359	
555	1663.40	IRL		FANAD HEAD LSTN	IRL	007W37 55N16	148	OT	2K80J3E			ND			0000 2359	
556	1663.40	IRL		FASTNET LSTN	IRL	009W36 51N23	148	OT	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
557	1663.40		IRL	INISHEER LSTN	IRL	009W31 53N02	148	OT	2K80J3E			ND			0000 2359	
558	1663.40		IRL	INISHTEARAGHT LSTN	IRL	010W39 52N04	148	OT	2K80J3E			ND			0000 2359	
559	1663.40		IRL	INISHTRAHULL LSTN	IRL	007W14 55N25	148	OT	2K80J3E			ND			0000 2359	
560	1663.40		IRL	KISH BANK LSTN	IRL	005W55 53N19	148	OT	2K80J3E			ND			0000 2359	
562	1663.40		IRL	LOOPHEAD LSTN	IRL	009W56 52N34	148	OT	2K80J3E			ND			0000 2359	
563	1663.40		IRL	MIZEN HEAD LSTN	IRL	009W49 51N27	148	OT	2K80J3E			ND			0000 2359	
564	1663.40		IRL	RATHLIN O'BIRNE LSTN	IRL	008W50 54N40	148	OT	2K80J3E			ND			0000 2359	
565	1663.40		IRL	ROANCARRIGMORE LSTN	IRL	009W45 51N39	148	OT	2K80J3E			ND			0000 2359	
566	1663.40		IRL	ROCKABILL LSTN	IRL	006W00 53N36	148	OT	2K80J3E			ND			0000 2359	
567	1663.40		IRL	ROSSLARE HELIBASE	IRL	006W21 52N16	148	OT	2K80J3E			ND			0000 2359	
568	1663.40		IRL	SKELLIGS LSTN	IRL	010W33 51N46	148	OT	2K80J3E			ND			0000 2359	
569	1663.40		IRL	SLYNE HEAD LSTN	IRL	010W14 53N24	148	OT	2K80J3E			ND			0000 2359	
570	1663.40		IRL	TORY ISLAND LSTN	IRL	008W15 55N16	148	OT	2K80J3E			ND			0000 2359	
571	1663.40		IRL	TUSKAR LSTN	IRL	006W12 52N12	148	OT	2K80J3E			ND			0000 2359	
572	1663.40		IRL	WICKLOW HEAD LSTN	IRL	006W00 52N58	148	OT	2K80J3E			ND			0000 2359	
2327	1663.40		POL	SARBINOWO	POL	015E57 54N16	400	OT	2K80J3E			ND			0000 2359	
598	1663.40		POR	VILA MOURA	POR	008W06 37N04	148	CV	2K80J3E			ND			0000 2359	
2925	1663.40		TGO	LOME RADIO	TGO	001E30 06N36	98	CP	2K80J3E			ND			0000 2359	
2591	1663.40		TUR	TRABZON	TUR	039E43 41N00	248	CP	2K80J3E			ND			0000 2359	
1506	1663.40		URS	LENINGRAD	URS	030E21 59N59	277	CO	2K80J3E			ND			0000 2359	
1504	1663.40		URS	LODEINOE	URS	033E34 60N43	400	CO	2K80J3E			ND			0000 2359	
1503	1663.40		URS	PRIOZERSK	URS	030E10 61N02	400	CO	2K80J3E			ND			0000 2359	
2190	1666.40		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2366	1666.40		BHR	BAHRAIN	BHR	050E35 26N14	400	CP	2K80J3E			ND			0000 2359	
1974	1666.40		BUL	NESSEBAR RADIO	BUL	027E24 42N29	400	CO	2K80J3E			ND			0000 2359	
2469	1666.40		CTI	ABIDJAN RADIO	CTI	003W58 05N21	298	CP	2K80J3E			ND			0000 2359	
227	1666.40		G	ARDNAMURCHAN LTSN	G	006W13 56N44	148	OT	2K80J3E			ND			0000 2359	
748	1666.40		I	CIVITAVECCHIA RADIO	I	011E49 42N01	398	CP	2K80J3E			ND			0000 2359	
2288	1666.40		ISR	HAIFA NAVAL RADIO	ISR	035E03 32N49	400	CO	2K80J3E			ND			0000 2359	
1637	1666.40		MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	2K80J3E			ND			0000 2359	
1692	1666.40		NOR	TJOEME	NOR	010E25 59N05	179	CP	2K80J3E			ND			0000 2359	
1269	1666.40		URS	KRASNOVODSK	URS	052E57 40N00	400	CP	2K80J3E			ND			0000 2359	
1352	1666.40		URS	NARIAN-MAR	URS	053E00 67N39	400	CP	2K80J3E			ND			0000 2359	
1411	1666.40		URS	VENTSPILS	URS	021E32 57N24	400	CP	2K80J3E			ND			0000 2359	
2192	1669.40		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2633	1669.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
2365	1669.40		BHR	BAHRAIN	BHR	050E35 26N14	400	CP	2K80J3E			ND			0000 2359	
502	1669.40		E	FERROL	E	008W16 43N28	398	CO	2K80J3E			ND			0000 2359	
1900	1669.40		ETH	ASSAB	ETH	042E45 13N01	198	CP	2K80J3E			ND			0000 2359	
782	1669.40		I	MESSINA RADIO	I	015E33 38N11	398	CP	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1646	1669.40	MOZ		BEIRA RADIO	MOZ	034E54 19S51	400	CP	2K80J3E			ND			0000 2359	
2574	1669.40	MRC		SAFI RADIO	MRC	009W14 32N18	400	CP	2K80J3E			ND			0000 2359	
2325	1669.40	POL		POBIEROWO	POL	014E54 54N04	400	OT	2K80J3E			ND			0000 2359	
2596	1669.40	TUR		IZMIR	TUR	027E10 38N24	248	CP	2K80J3E			ND			0000 2359	
2595	1669.40	TUR		SAMSUN	TUR	036E20 41N17	248	CP	2K80J3E			ND			0000 2359	
1099	1669.40	URS		BAKU	URS	049E45 40N20	400	CO	2K80J3E			ND			0000 2359	
2863	1672.40	COG		POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	2K80J3E			ND			0000 2359	
2475	1672.40	CTI		ABIDJAN SANTE MARINE	CTI	004W01 05N18	198	CR	2K80J3E			ND			0000 2359	
1898	1672.40	ETH		ASSAB	ETH	042E45 13N01	198	CP	2K80J3E			ND			0000 2359	
1868	1672.40	F		LE CONQUET	F	004W44 48N20	400	CP	2K80J3E			ND			0000 2359	
1858	1672.40	F		MARSEILLE	F	005E21 43N14	400	CO	2K80J3E			ND			0000 2359	
1878	1672.40	F		QUIMPERLE	F	003W30 47N52	400	CP	2K80J3E			ND			0000 2359	
1874	1672.40	F		S MALO	F	002W02 48N38	400	CP	2K80J3E			ND			0000 2359	
424	1672.40	FNL		KOTKA	FNL	026E54 60N29	298	CP	2K80J3E			ND			0000 2359	
2601	1672.40	GRC		MOURNIES KRITIS	GRC	024E01 35N29	368	CO	2K80J3E			ND			0000 2359	
1639	1672.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
869	1672.40	MRC		NADOR	MRC	002W56 35N10	400	CP	2K80J3E			ND			0000 2359	
1710	1672.40	NOR		BODOE/HARSTAD	NOR	018E57 69N39	368	CO	2K80J3E			ND			0000 2359	
1693	1672.40	NOR		FARSUND	NOR	006E45 58N04	368	CP	2K80J3E			ND			0000 2359	
2248	1672.40	OMA		MUSCAT	OMA	058E36 23N37	400	CO	2K80J3E			ND			0000 2359	
2400	1672.40	TUN		SFAX RADIO	TUN	010E44 34N44	400	CP	2K80J3E			ND			0600 2359	
1499	1672.40	URS		KOLGUEV	URS	049E07 69N30	400	OT	2K80J3E			ND			0000 2359	
853	1672.40	YUG		ZADAR	YUG	015E14 44N07	298	CP	2K80J3E			ND			0000 2359	
2368	1675.40	BHR		BAHRAIN	BHR	050E35 26N14	400	CP	2K80J3E			ND			0000 2359	
461	1675.40	E		CABO PENAS RADIO	E	005W51 43N39	368	CP	2K80J3E			ND			0000 2359	
244	1675.40	G		FAIR ISLE S LTSN	G	001W39 59N31	148	OT	2K80J3E			ND			0000 2359	
2832	1675.40	GHA		TEMA	GHA	000W00 05N37	400	CP	100HA1A			ND			0000 2359	
2813	1675.40	GNE		BATA	GNE	009E44 01N49	400	CO	2K80J3E			ND			0000 2359	
442	1675.40	HOL		SCHEVENINGEN	HOL	004E15 52N06	400	CP	2K80J3E			ND			0000 2359	
739	1675.40	I		CAGLIARI RADIO	I	009E07 39N15	398	CP	2K80J3E			ND			0000 2359	
868	1675.40	MRC		DAKHLA	MRC	015W56 23N42	400	CP	2K80J3E			ND			0000 2359	
1696	1675.40	NOR		HARSTAD	NOR	018E57 69N39	368	CP	2K80J3E			ND			0000 2359	
2444	1675.40	ROU		CONSTANTA	ROU	028E37 44N06	298	OT	2K80J3E			ND			0000 2359	
384	1675.40	S		STOCKHOLM RADIO	S	018E43 59N17	400	CP	2K80J3E			ND			0000 2359	
1220	1675.40	URS		MAKHATCHKALA	URS	047E30 42N59	400	CP	2K80J3E			ND			0000 2359	
2738	1678.40	ALB		SARANDE RADIO	ALB	020E00 39N52	198	CP	2K80J3E			ND			0000 2359	
2370	1678.40	BHR		BAHRAIN	BHR	050E35 26N14	400	CP	2K80J3E			ND			0000 2359	
2480	1678.40	CTI		S. PEDRO PORT	CTI	006W37 04N44	198	CR	2K80J3E			ND			0000 2359	
1774	1678.40	D		BREMERHAVEN	D	008E30 53N31	220	OT	2K80J3E			ND			0000 2359	
1775	1678.40	D		CUXHAVEN	D	008E43 53N52	209	OT	2K80J3E			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 43 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1776	1678.40		D	KIEL	D	010E08 54N26	103	OT	2K80J3E			ND			0000 2359	
512	1678.40		E	LAS PALMAS	CNR	015W26 28N09	398	CO	2K80J3E			ND			0000 2359	
460	1678.40		E	CABO PENAS RADIO	E	005W51 43N39	368	CP	2K80J3E			ND			0000 2359	
428	1678.40		FNL	MARIEHAMN	FNL	019E57 60N07	400	CP	2K80J3E			ND			0000 2359	
2902	1678.40		GUI	KONAKRY	GUI	013W37 09N30	198	CP	2K80J3E			ND			0000 2359	
802	1678.40		I	PORTO TORRES RADIO	I	008E23 40N50	398	CP	2K80J3E			ND			0000 2359	
578	1678.40		IRL	MALIN HEAD	IRL	007W21 55N22	368	CP	2K80J3E			ND			0000 2359	
2893	1678.40		LBY	BENGHAZI	LBY	020E04 32N07	298	CP	2K80J3E			ND			0000 2359	
2567	1678.40		MRC	EL HOCEIMA RADIO	MRC	003W58 35N10	198	CP	2K80J3E			ND			0000 2359	
1028	1678.40		URS	IZMAIL	UKR	028E51 45N20	92	CP	2K80J3E			ND			0000 2359	
2095	1681.40		ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	2K80J3E			ND			0000 2359	
1809	1681.40		BEL	BRUGGE	BEL	003E15 51N12	400	CO	2K80J3E			ND			0000 2359	
2630	1681.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
2901	1681.40		GUI	KAMSAR	GUI	015W36 11N40	198	CP	2K80J3E			ND			0000 2359	
830	1681.40		I	TRIESTE RADIO	I	013E46 45N40	198	CP	2K80J3E			ND			0000 2359	
2548	1681.40		MRC	TANTAN RADIO	MRC	011W07 28N35	198	CP	2K80J3E			ND			0000 2359	
2897	1681.40		MTN	NOUADHIBOU RADIO	MTN	017W03 20N54	400	CP	2K80J3E			ND			0800 1800	
1717	1681.40		NOR	FLOROE	NOR	005E00 61N36	368	CP	2K80J3E			ND			0800 1800	
1730	1681.40		NOR	HARSTAD	NOR	019E01 69N43	368	CP	2K80J3E			ND			0800 1800	
2322	1681.40		POL	MIKOSZEWO	POL	019E58 54N21	400	OT	2K80J3E			ND			0000 2359	
593	1681.40		POR	MATOSINHOS	POR	008W45 41N12	198	CP	2K80J3E			ND			0000 2359	
594	1681.40		POR	SETUBAL	POR	008W55 38N32	198	OT	2K80J3E			ND			0000 2359	
2597	1681.40		TUR	ISTANBUL	TUR	028E56 41N04	398	CP	2K80J3E			ND			0000 2359	
2355	1681.40		UAE	ABUDHABI	UAE	054E17 24N23	198	CV	2K80J3E			ND			0000 2359	
1246	1681.40		URS	FORT SHEVTCHENKO	URS	050E18 44N30	400	CP	2K80J3E			ND			0000 2359	
1362	1681.40		URS	ONEGA	URS	038E10 63N57	185	CP	2K80J3E			ND			0000 2359	
2201	1684.40		BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2467	1684.40		CTI	ABIDJAN RADIO	CTI	003W58 05N21	298	CP	2K80J3E			ND			0000 2359	
910	1684.40		CYP	CYPRUS RADIO	CYP	033E17 35N03	298	CP	2K80J3E			ND			0000 2359	
2706	1684.40		E	ALICANTE	E	000W29 38N21	368	CP	2K80J3E			ND			0000 2359	
835	1684.40		I	VENEZIA RADIO	I	012E21 45N26	198	CP	2K80J3E			ND			0000 2359	
533	1684.40		MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	2K80J3E			ND			0000 2359	
1706	1684.40		NOR	KRISTIANSAND S	NOR	007E59 58N03	98	CO	2K80J3E			ND			0000 2359	
2360	1684.40		UAE	ABUDHABI	UAE	054E17 24N23	179	CV	2K80J3E			ND			0000 2359	
1112	1684.40		URS	BATUMI	URS	041E19 41N39	400	CO	2K80J3E			ND			0000 2359	
1521	1684.40		URS	HAAPSALU	URS	023E21 58N34	400	CO	2K80J3E			ND			0000 2359	
1108	1684.40		URS	POTI	URS	041E49 42N08	400	CO	2K80J3E			ND			0000 2359	
1123	1684.40		URS	SUKHUMI	URS	040E42 43N00	400	CO	2K80J3E			ND			0000 2359	
1550	1684.40		URS	TALLIN	URS	024E46 59N24	400	CO	2K80J3E			ND			0000 2359	
2629	1687.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1961	1687.40		BUL	VARNA RADIO	BUL	027E46 43N04	400	CO	2K80J3E			ND			0000 2359	
2054	1687.40		DNK	BLAAVAND	DNK	008E07 55N33	348	CP	2K80J3E			ND			0000 2359	
1881	1687.40		F	S NAZAIRE	F	002W06 47N20	400	CP	2K80J3E			ND			0000 2359	
423	1687.40		FNL	HANKO RV	FNL	023E01 59N49	298	CO	2K80J3E			ND			0000 2359	
259	1687.40		G	MULL OF KINTYRE LTSN	G	005W45 55N19	148	OT	2K80J3E			ND			0000 2359	
2568	1687.40		MRC	EL HOCEIMA RADIO	MRC	003W58 35N10	198		2K80J3E			ND			0000 2359	
611	1687.40		POR	MADEIRA	MDR	016W50 32N38	248	CP	2K80J3E			ND			0000 2359	
2745	1687.40		TUN	BIZERTE RADIO	TUN	009E53 37N16	185	CP	2K80J3E			ND			0600 1900	
2362	1687.40		UAE	ABUDHABI	UAE	054E17 24N23	148	CV	2K80J3E			ND			0000 2359	
1341	1687.40		URS	ARKHANGHELSK	URS	040E37 64N36	400	CO	2K80J3E			ND			0000 2359	
854	1687.40		YUG	SPLIT	YUG	016E29 43N30	298	CP	2K80J3E			ND			0000 2359	
2200	1690.40		BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
1978	1690.40		BUL	BALTCHIK RADIO	BUL	028E06 43N17	400	CO	2K80J3E			ND			0000 2359	
519	1690.40		E	LAS PALMAS RADIO	CNR	015W36 27N45	368	CP	2K80J3E			ND			0000 2359	
231	1690.40		G	BRESSAY LTSN	G	001W07 60N07	148	OT	2K80J3E			ND			0000 2359	
2888	1690.40		GHA	TAKORADI	GHA	001W45 04N54	400	CP	2K80J3E			ND			0600 1800	
814	1690.40		I	TRAPANI RADIO	I	012E30 38N01	398	CP	2K80J3E			ND			0000 2359	
2331	1690.40		POL	SUCHACZ	POL	019E28 54N17	400	OT	2K80J3E			ND			0000 2359	
596	1690.40		POR	PENICHE	POR	009W25 39N20	198	CP	2K80J3E			ND			0000 2359	
595	1690.40		POR	VILA REAL S ANTONIO	POR	007W28 37N12	198	CP	2K80J3E			ND			0000 2359	
2363	1690.40		UAE	ABUDHABI	UAE	054E17 24N23	179	CV	2K80J3E			ND			0000 2359	
1236	1690.40		URS	BAKU	URS	049E45 40N20	400	CP	2K80J3E			ND			0000 2359	
2720	1693.40		ALG	EL KALA RADIO	ALG	008E27 36N53	98		2K80J3E			ND			0000 2359	
2628	1693.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
2704	1693.40		E	VALENCIA	E	000W18 39N27	368	CP	2K80J3E			ND			0000 2359	
1867	1693.40		F	BOULOGNE MER	F	001E38 50N43	400	CP	2K80J3E			ND			0000 2359	
734	1693.40		I	BARI RADIO	I	016E59 41N05	398	CP	2K80J3E			ND			0000 2359	
2566	1693.40		MRC	EL JADIDA RADIO	MRC	008W40 33N07	298	CP	2K80J3E			ND			0000 2359	
1695	1693.40		NOR	ROGALAND	NOR	005E34 58N48	179	CP	2K80J3E			ND			0000 2359	
2305	1693.40		POL	GDYNIA	POL	018E32 54N32	400	CR	2K80J3E			ND			0000 2359	
2353	1693.40		UAE	SHARJAH	UAE	055E17 25N22	198	CV	2K80J3E			ND			0000 2359	
1053	1693.40		URS	GENITCHESK	UKR	034E48 46N12	400	CO	2K80J3E			ND			0000 2359	
979	1693.40		URS	KHERSON	UKR	032E34 46N39	231	CO	2K80J3E			ND			0000 2359	
920	1693.40		URS	NIKOPOL	UKR	034E25 47N36	400	CO	2K80J3E			ND			0000 2359	
991	1693.40		URS	OTCHAKOV	UKR	031E30 46N37	185	CO	2K80J3E			ND			0000 2359	
1498	1693.40		URS	LODEINOE	URS	033E34 60N43	231	CO	2K80J3E			ND			0000 2359	
1502	1693.40		URS	MURMANSK	URS	033E10 68N58	400	CO	2K80J3E			ND			0000 2359	
2181	1696.40		ALG	GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	2K80J3E			ND			0000 2359	
2056	1696.40		DNK	BLAAVAND	DNK	008E07 55N33	348	CP	2K80J3E			ND			0000 2359	
1866	1696.40		F	MARSEILLE BALISAGE	F	005E21 43N17	181	OT	2K80J3E			ND			0700 1630	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
422	1696.40		FNL	PORI RV	FNL	021E31 61N34	298	CO	2K80J3E			ND			0000 2359	
149	1696.40		G	LANDS END RADIO	G	005W40 50N07	318	CP	2K80J3E			ND			0000 2359	
1979	1696.40		GRC	ATHINAI	GRC	023E53 38N00	368	CP	2K80J3E			ND			0000 2359	
822	1696.40		I	TRIESTE RADIO	I	013E46 45N40	398	CP	2K80J3E			ND			0000 2359	
882	1696.40		IRQ	BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1734	1696.40		NOR	VARDOE	NOR	027E51 71N02	368	CP	2K80J3E			ND			0800 1800	
2063	1696.40		TUN	MAHDIA RADIO	TUN	011E04 35N30	400	CP	2K80J3E			ND			0600 1900	
2085	1699.40		ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	2K80J3E			ND			0000 2359	
2627	1699.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
2059	1699.40		DNK	BLAAVAND	DNK	008E07 55N33	348	CP	2K80J3E			ND			0000 2359	
2484	1699.40		E	LAS PALMAS RADIO	CNR	015W36 27N45	368	CP	2K80J3E			ND			0000 2359	
919	1699.40		E	CORUNA RADIO	E	008W27 43N22	368	CP	2K80J3E			ND			0000 2359	
239	1699.40		G	CORSEWALL LTSN	G	005W10 55N01	148	OT	2K80J3E			ND			0000 2359	
1998	1699.40		GRC	PIRAEUS	GRC	023E40 37N58	368	CO	2K80J3E			ND			0000 2359	
828	1699.40		I	TRIESTE RADIO	I	013E46 45N40	398	CP	2K80J3E			ND			0000 2359	
878	1699.40		IRQ	BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1645	1699.40		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
2247	1699.40		OMA	RAYSUT	OMA	054E00 16N57	398	CO	2K80J3E			ND			0000 2359	
2401	1699.40		TUN	SFAX RADIO 2 MDN	TUN	010E44 34N44	400	CO	2K80J3E			ND			0600 2359	
2594	1699.40		TUR	MERSIN	TUR	034E36 36N49	248	CP	2K80J3E			ND			0000 2359	
1057	1699.40		URS	BERDIANSK	UKR	036E48 46N47	400	CO	2K80J3E			ND			0000 2359	
1060	1699.40		URS	JDANOV	UKR	037E31 47N08	400	CO	2K80J3E			ND			0000 2359	
1464	1699.40		URS	KINGISEPP	URS	022E33 58N15	92	CO	2K80J3E			ND			0000 2359	
1519	1699.40		URS	LENINGRAD	URS	030E21 59N59	400	CO	2K80J3E			ND			0000 2359	
1402	1699.40		URS	LIEPAIA	URS	021E02 56N43	400	CO	2K80J3E			ND			0000 2359	
2873	1702.40		AFS	LUDERITZ	NMB	015E04 26S38	398	CP	2K80J3E			ND			0000 2359	
2719	1702.40		ALG	SKIKDA RADIO	ALG	006E54 36N53	98		2K80J3E			ND			0000 2359	
151	1702.40		G	MILLTOWN	G	003W14 57N40	274	CO	2K80J3E			ND			0000 2359	
1988	1702.40		GRC	RHODOS	GRC	028E12 36N26	368	CP	2K80J3E			ND			0000 2359	
447	1702.40		HOL	OUDDORP	HOL	003E53 51N48	179	CP	2K80J3E			ND			0000 2359	
710	1702.40		I	ROMA	I	012E22 41N59	218	CO	2K80J3E			ND			0000 2359	
883	1702.40		IRQ	BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1633	1702.40		MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
2318	1702.40		POL	MECHELINKI	POL	018E31 54N36	400	OT	2K80J3E			ND			0000 2359	
590	1702.40		POR	PORTIMAO	POR	008W38 37N10	198	OT	2K80J3E			ND			0000 2359	
2457	1702.40		ROU	SULINA	ROU	029E39 45N09	248	OT	2K80J3E			ND			0000 2359	
2092	1705.40		ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	2K80J3E			ND			0000 2359	
2623	1705.40		BEN	COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
2047	1705.40		DNK	LYNGBY	DNK	011E25 55N50	348	CP	2K80J3E			ND			0000 2359	
488	1705.40		E	TARIFA RADIO	E	005W33 36N03	368	CP	2K80J3E			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1855	1705.40	F	LORIENT	F	003W27	47N44	400	CO	2K80J3E			ND			0000	2359
251	1705.40	G	INCHKEITH LSTN	G	003W08	56N02	148	OT	2K80J3E			ND			0000	2359
1640	1705.40	MOZ	BEIRA RADIO	MOZ	034E54	19S51	400	CP	2K80J3E			ND			0000	2359
2443	1705.40	ROU	CONSTANTA	ROU	028E37	44N06	198	OT	2K80J3E			ND			0000	2359
1248	1705.40	URS	FORT SHEVTCHENKO	URS	050E18	44N30	400	CP	2K80J3E			ND			0000	2359
1371	1705.40	URS	KANDALAKCHA	URS	032E29	67N10	400	CP	2K80J3E			ND			0000	2359
855	1705.40	YUG	DUBROVNIK	YUG	018E07	42N38	298	CP	2K80J3E			ND			0000	2359
2093	1708.40	ALG	ANNABA RADIO	ALG	007E45	36N54	400	CP	2K80J3E			ND			0000	2359
2046	1708.40	DNK	LYNGBY	DNK	011E25	55N50	348	CP	2K80J3E			ND			0000	2359
482	1708.40	E	MACHICHACO RADIO	E	002W45	43N27	368	CP	2K80J3E			ND			0000	2359
1811	1708.40	F	DZAOUDZI	MYT	045E17	12S48	400	CP	2K80J3E			ND			0000	2359
2067	1708.40	F	S DENIS	REU	055E36	20S54	400	CP	2K80J3E			ND			0000	2359
417	1708.40	FNL	VAASA	FNL	021E09	63N19	298	CP	2K80J3E			ND			0000	2359
299	1708.40	G	CLYDE COASTGUARD	G	004W48	55N49	179	OT	2K80J3E			ND			0000	2359
158	1708.40	G	NORTH FORELAND RADIO	G	001E25	51N22	118	CP	2K80J3E			ND			0000	2359
2603	1708.40	GRC	SPATA ATTIKIS	GRC	023E55	37N58	368	CO	2K80J3E			ND			0000	2359
831	1708.40	I	VENEZIA RADIO	I	012E21	45N26	400	CP	2K80J3E			ND			0000	2359
2612	1708.40	KEN	MOMBASA RADIO	KEN	039E44	03S58	400	CP	2K80J3E			ND			0000	2359
1631	1708.40	MOZ	BEIRA RADIO	MOZ	034E54	19S51	400	CP	2K80J3E			ND			0000	2359
18	1708.40	QAT	DOHA	QAT	051E35	25N45	400	CP	2K80J3E			ND			0000	2359
2872	1711.40	AFS	LUDERITZ	NMB	015E04	26S38	398	CP	2K80J3E			ND			0000	2359
2626	1711.40	BEN	COTONOU	BEN	002E28	06N22	400	CP	2K80J3E			ND			0000	2359
909	1711.40	CYP	CYPRUS RADIO	CYP	033E17	35N03	298	CP	2K80J3E			ND			0000	2359
1884	1711.40	F	ARCACHON	F	001W10	44N39	400	CP	2K80J3E			ND			0000	2359
162	1711.40	G	PORTPATRICK RADIO	G	005W07	54N51	238	CP	2K80J3E			ND			0000	2359
438	1711.40	HOL	VLISSINGEN	HOL	003E37	51N27	98	CP	2K80J3E			ND			0000	2359
820	1711.40	I	TRAPANI RADIO	I	012E30	38N01	398	CP	2K80J3E			ND			0000	2359
2918	1711.40	LBY	TOBRUK RADIO	LBY	023E59	32N02	198	CV	2K80J3E			ND			0000	2359
1643	1711.40	MOZ	BEIRA RADIO	MOZ	034E54	19S51	400	CP	2K80J3E			ND			0000	2359
863	1711.40	MRC	LAAYOUNE	MRC	013W13	27N10	400	CP	2K80J3E			ND			0000	2359
1712	1711.40	NOR	BODOE	NOR	012E37	66N01	179	CP	2K80J3E			ND			0800	1800
599	1711.40	POR	LISBOA	POR	009W13	38N43	148	CV	2K80J3E			ND			0000	2359
373	1711.40	S	GOETEBORG RADIO	S	011E56	57N28	400	CP	2K80J3E			ND			0000	2359
942	1711.40	URS	IALTA	UKR	034E10	44N39	400	CO	2K80J3E			ND			0000	2359
922	1711.40	URS	KERTCH	UKR	036E28	45N22	277	CO	2K80J3E			ND			0000	2359
953	1711.40	URS	SEVASTOPOL	UKR	033E32	44N34	231	CO	2K80J3E			ND			0000	2359
1312	1711.40	URS	MURMANSK	URS	033E10	68N58	400	CO	2K80J3E			ND			0000	2359
2775	1714.40	AOE	EL AAIUN	AOE	013W18	27N10	98	CV	2K80J3E			ND			0000	2359
467	1714.40	E	CHIPIONA RADIO	E	006W25	36N42	368	CP	2K80J3E			ND			0000	2359
268	1714.40	G	RUBHA REIDH LTSN	G	005W49	57N51	148	OT	2K80J3E			ND			0000	2359

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
164	1714.40	G		ST EVAL	G	005W00 50N28	274	CO	2K80J3E			ND			0000 2359	
444	1714.40	HOL		NES	HOL	006E04 53N24	400	CP	2K80J3E			ND			0000 2359	
756	1714.40	I		GENOVA RADIO	I	008E56 44N25	398	CP	2K80J3E			ND			0000 2359	
2079	1714.40	ISL		SIGLUFJORDUR RADIO	ISL	015W56 66N27	400	CP	2K80J3E			ND			0000 2359	
2076	1714.40	ISL		VESTMANNAEYJAR RADIO	ISL	020W16 23N26	400	CP	2K80J3E			ND			0000 2359	
2923	1714.40	LBY		BENGHAZI RADIO	LBY	020E04 32N07	400	CP	2K80J3E			ND			0000 2359	
1636	1714.40	MOZ		MAPUTO RADIO	MOZ	032E37 26S05	400	CP	2K80J3E			ND			0000 2359	
2333	1714.40	POL		SWARZEWO	POL	018E24 54N46	400	OT	2K80J3E			ND			0000 2359	
19	1714.40	QAT		DOHA	QAT	051E35 25N45	400	CP	2K80J3E			ND			0000 2359	
2390	1714.40	TUN		GABES RADIO	TUN	007E45 33N53	400	CP	2K80J3E			ND			0600 1900	
1235	1714.40	URS		BAKU	URS	049E45 40N20	400	CP	2K80J3E			ND			0000 2359	
2625	1717.40	BEN		COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
2699	1717.40	E		CABO PENAS	E	005W50 43N39	400	CP	2K80J3E			ND			0000 2359	
443	1717.40	HOL		SCHEVENINGEN	HOL	004E15 52N06	400	CP	2K80J3E			ND			0000 2359	
741	1717.40	I		CAGLIARI RADIO	I	009E07 39N15	398	CP	2K80J3E			ND			0000 2359	
826	1717.40	I		TRIESTE RADIO	I	013E46 45N40	398	CP	2K80J3E			ND			0000 2359	
1705	1717.40	NOR		HORTEN	NOR	010E29 59N25	98	CO	2K80J3E			ND			0000 2359	
20	1717.40	QAT		DOHA	QAT	051E35 25N45	400	CP	2K80J3E			ND			0000 2359	
999	1717.40	URS		ILITCHEVSK	UKR	030E41 46N19	400	CO	2K80J3E			ND			0000 2359	
1029	1717.40	URS		IZMAIL	UKR	028E51 45N20	277	CO	2K80J3E			ND			0000 2359	
1007	1717.40	URS		ODESSA	UKR	030E45 46N29	277	CO	2K80J3E			ND			0000 2359	
1432	1717.40	URS		KALININGRAD	URS	020E30 54N45	400	CO	2K80J3E			ND			0000 2359	
1384	1717.40	URS		KLAIPEDA	URS	021E12 55N46	400	CP	2K80J3E			ND			0000 2359	
1160	1717.40	URS		VILKOVO	URS	029E36 45N25	400	CO	2K80J3E			ND			0000 2359	
2091	1720.40	ALG		ORAN RADIO	ALG	000W08 35N46	400	CP	2K80J3E			ND			0000 2359	
2194	1720.40	BEL		OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
351	1720.40	DDR		RUEGEN	DDR	013E37 54N35	400	CP	2K80J3E			ND			0000 2359	
527	1720.40	E		TENERIFE RADIO	CNR	016W20 28N25	368	CP	2K80J3E			ND			0000 2359	
419	1720.40	FNL		HAILUOTO	FNL	024E35 65N02	298	CP	2K80J3E			ND			0000 2359	
1718	1720.40	NOR		FLOROE	NOR	005E00 61N36	368	CP	2K80J3E			ND			0800 1800	
1190	1720.40	URS		ASTRAKHAN	URS	047E42 46N55	400	CO	2K80J3E			ND			0000 2359	
856	1720.40	YUG		BAR	YUG	019E06 42N01	298	CP	2K80J3E			ND			0000 2359	
2099	1723.40	ALG		TENES RADIO	ALG	001E18 36N32	400	CP	2K80J3E			ND			0000 2359	
2624	1723.40	BEN		COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
346	1723.40	DDR		RUEGEN	DDR	013E37 54N35	400	CP	2K80J3E			ND			0000 2359	
1880	1723.40	F		S NAZAIRE	F	002W06 47N20	400	CP	2K80J3E			ND			0000 2359	
170	1723.40	G		STONEHAVEN RADIO	G	002W13 56N57	238	CP	2K80J3E			ND			0000 2359	
716	1723.40	I		LA SPEZIA	I	009E43 44N06	218	CO	2K80J3E			ND			0000 2359	
35	1723.40	JOR		AQABA RADIO	JOR	034E59 29N33	400	CP	2K80J3E			ND			0000 2359	
2537	1723.40	KWT		RAS ALZOOR	KWT	048E56 28N28	400	CP	2K80J3E			ND			0300 2100	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
532	1723.40		MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	2K80J3E			ND			0000 2359	
872	1723.40		MRC	ESSAOUIRA	MRC	009W46 31N38	400	CP	2K80J3E			ND			0000 2359	
1703	1723.40		NOR	BJOERNOEYA	NOR	019E01 74N31	368	CP	2K80J3E			ND			0000 2359	
2245	1723.40		OMA	SALALAH	OMA	054E06 17N01	398	CO	2K80J3E			ND			0000 2359	
1103	1723.40		URS	GELENDJIK	URS	038E06 44N35	400	OT	2K80J3E			ND			0000 2359	
1552	1723.40		URS	TALLIN	URS	024E46 59N24	400	CP	2K80J3E			ND			0000 2359	
2090	1726.40		ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	2K80J3E			ND			0000 2359	
2195	1726.40		BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
526	1726.40		E	TENERIFE RADIO	CNR	016W20 28N25	368	CP	2K80J3E			ND			0000 2359	
328	1726.40		G	STORNOWAY COASTGUARD	G	006W21 58N13	179	OT	2K80J3E			ND			0000 2359	
1986	1726.40		GRC	HERAKLION	GRC	025E45 35N19	368	CP	2K80J3E			ND			0000 2359	
791	1726.40		I	NAPOLI RADIO	I	014E14 40N50	398	CP	2K80J3E			ND			0000 2359	
2525	1726.40		KWT	RAS ALZOOR	KWT	047E56 28N28	400	CP	2K80J3E			ND			0300 2100	
1687	1726.40		NOR	ROERVIK	NOR	011E12 64N50	179	CP	2K80J3E			ND			0000 2359	
1728	1726.40		NOR	ROGALAND	NOR	005E05 59N26	179	CP	2K80J3E			ND			0800 1800	
606	1726.40		POR	S MIGUEL	AZR	025W39 37N45	248	CP	2K80J3E			ND			0000 2359	
1196	1726.40		URS	EISK	URS	038E15 46N41	400	CO	2K80J3E			ND			0000 2359	
1109	1726.40		URS	KRASNODAR	URS	039E01 45N03	400	CO	2K80J3E			ND			0000 2359	
1397	1726.40		URS	RIGA	URS	024E05 56N57	277	CO	2K80J3E			ND			0000 2359	
1523	1726.40		URS	SALACGRIVA	URS	024E21 57N45	185	CO	2K80J3E			ND			0000 2359	
1131	1726.40		URS	SOTCHI	URS	039E45 43N36	400	CO	2K80J3E			ND			0000 2359	
1167	1726.40		URS	TEMRIUK	URS	037E24 45N17	400	CO	2K80J3E			ND			0000 2359	
2193	1729.40		BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
487	1729.40		E	TARIFA RADIO	E	005W33 36N03	368	CP	2K80J3E			ND			0000 2359	
2560	1729.40		EGY	KOSSEIR RADIO	EGY	034E17 26N06	298	CP	2K80J3E			ND			0400 2200	
1899	1729.40		ETH	MASSAWA	ETH	039E21 15N37	198	CP	2K80J3E			ND			0000 2359	
426	1729.40		FNL	HANKO	FNL	022E57 59N50	400	CP	2K80J3E			ND			0000 2359	
800	1729.40		I	PORTO TORRES RADIO	I	008E23 40N50	398	CP	2K80J3E			ND			0000 2359	
2535	1729.40		KWT	RAS ALZOOR	KWT	048E56 28N28	400	CP	2K80J3E			ND			0300 2100	
866	1729.40		MRC	DAKHLA	MRC	015W56 23N42	400	CP	2K80J3E			ND			0000 2359	
1707	1729.40		NOR	BERGEN	NOR	005E22 60N25	98	CO	2K80J3E			ND			0000 2359	
1697	1729.40		NOR	HAMMERFEST	NOR	023E41 70N41	368	CP	2K80J3E			ND			0000 2359	
2586	1729.40		TUR	ANTALYA	TUR	030E42 36N53	248	CP	2K80J3E			ND			0000 2359	
974	1729.40		URS	TCHERNOMORSKOE	UKR	032E43 45N30	185	CO	2K80J3E			ND			0000 2359	
456	1732.40		E	CABO DE LA NAO RADIO	E	000E11 38N43	368	CP	2K80J3E			ND			0000 2359	
141	1732.40		G	CULLERCOATS RADIO	G	001W28 55N04	318	CP	2K80J3E			ND			0000 2359	
717	1732.40		I	NAPOLI	I	014E14 40N42	218	CO	2K80J3E			ND			0000 2359	
2891	1732.40		LBY	TRIPOLI	LBY	013E11 32N54	298	CP	2K80J3E			ND			0000 2359	
1713	1732.40		NOR	BODOE	NOR	015E58 68N24	179	CP	2K80J3E			ND			0800 1800	
1735	1732.40		NOR	SVALBARD	NOR	013E38 78N04	368	CP	2K80J3E			ND			0800 1800	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2317	1732.40		POL	LEBA	POL	017E32 54N44	348	CV	2K80J3E			ND			0000 2359	
2592	1732.40		TUR	ISTANBUL	TUR	028E56 41N04	398	CP	2K80J3E			ND			0000 2359	
2351	1732.40		UAE	DUBAI	UAE	055E16 25N14	98	CV	2K80J3E			ND			0000 2359	
1270	1732.40		URS	KRASNOVODSK	URS	052E57 40N00	400	CP	2K80J3E			ND			0000 2359	
2161	1735.40		ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	2K80J3E			ND			0000 2359	
2865	1735.40		COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	2K80J3E			ND			0000 2359	
2058	1735.40		DNK	BLAAVAND	DNK	008E07 55N33	348	CP	2K80J3E			ND			0000 2359	
1843	1735.40		F	BREST	F	004W14 48N26	348	CO	2K80J3E			ND			0000 2359	
1994	1735.40		GRC	ASPROPYRGOS	GRC	023E35 38N02	368	CO	2K80J3E			ND			0000 2359	
719	1735.40		I	ANCONA RADIO	I	013E28 43N36	198	CP	2K80J3E			ND			0000 2359	
2536	1735.40		KWT	RAS ALZOOR	KWT	048E56 28N28	400	CP	2K80J3E			ND			0300 2100	
2599	1735.40		TUR	MERSIN	TUR	034E36 36N49	248	CP	2K80J3E			ND			0000 2359	
1517	1735.40		URS	LENINGRAD	URS	030E21 59N59	400	CP	2K80J3E			ND			0000 2359	
1551	1735.40		URS	TALLIN	URS	024E46 59N24	400	CO	2K80J3E			ND			0000 2359	
2088	1738.40		ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	2K80J3E			ND			0000 2359	
1977	1738.40		BUL	AHTOPOL RADIO	BUL	027E12 42N05	400	CO	2K80J3E			ND			0000 2359	
528	1738.40		E	TENERIFE RADIO	CNR	016W20 28N25	368	CP	2K80J3E			ND			0000 2359	
2805	1738.40		EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	400	CP	2K80J3E			ND			0000 2359	
1849	1738.40		F	DUNKERQUE	F	002E20 51N03	148	CO	2K80J3E			ND			0000 2359	
759	1738.40		I	GENOVA RADIO	I	008E56 44N25	198	CP	2K80J3E			ND			0000 2359	
531	1738.40		MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	2K80J3E			ND			0000 2359	
1711	1738.40		NOR	AALESUND	NOR	007E42 63N07	368	CP	2K80J3E			ND			0800 1800	
1702	1738.40		NOR	NY-AALESUND	NOR	011E55 78N55	368	CP	2K80J3E			ND			0000 2359	
1709	1738.40		NOR	STAVANGER	NOR	005E34 58N04	368	CO	2K80J3E			ND			0000 2359	
1699	1738.40		NOR	VARDOE	NOR	031E05 70N22	368	CP	2K80J3E			ND			0000 2359	
2250	1738.40		OMA	SUR	OMA	059E28 22N32	398	CO	2K80J3E			ND			0000 2359	
2306	1738.40		POL	HEL	POL	018E48 54N36	348	CV	2K80J3E			ND			0000 2359	
2358	1738.40		UAE	RASALKHAIMA	UAE	055E52 25N38	148	CV	2K80J3E			ND			0000 2359	
1165	1738.40		URS	TEMRIUK	URS	037E24 45N17	92	OT	2K80J3E			ND			0000 2359	
2265	1741.40		ALB	DURRES PT RADIO	ALB	019E26 41N27	148	CP	2K80J3E			ND			0000 2359	
2100	1741.40		ALG	TENES RADIO	ALG	001E18 36N32	400	CP	2K80J3E			ND			0000 2359	
147	1741.40		G	ILFRACOMBE RADIO	G	004W07 51N11	159	CP	2K80J3E			ND			0000 2359	
1985	1741.40		GRC	HERAKLION	GRC	025E45 35N19	368	CP	2K80J3E			ND			0000 2359	
439	1741.40		HOL	HOEK VAN HOLLAND	HOL	004E07 52N00	98	CP	2K80J3E			ND			0000 2359	
873	1741.40		MRC	ESSAOUIRA	MRC	009W46 31N38	400	CP	2K80J3E			ND			0000 2359	
1701	1741.40		NOR	SVALBARD	NOR	013E38 78N04	368	CP	2K80J3E			ND			0000 2359	
2343	1741.40		POL	USTKA	POL	016E52 54N34	348	CV	2K80J3E			ND			0000 2359	
589	1741.40		POR	AVEIRO	POR	008W45 40N40	198	OT	2K80J3E			ND			0000 2359	
2393	1741.40		TUN	KELIBIA RADIO	TUN	008E46 36N50	400	CP	2K80J3E			ND			0600 1900	
1006	1741.40		URS	ODESSA	UKR	030E45 46N29	400	OT	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1261	1741.40	URS		GURIEV	URS	051E55 47N03	400	CP	2K80J3E			ND			0000 2359	
1311	1741.40	URS		MURMANSK	URS	033E10 68N58	400	CP	2K80J3E			ND			0000 2359	
2292	1744.40	CVA		CITE DU VATICAN	CVA	012E27 41N55	400	OT	2K80J3E			ND			0000 2359	
240	1744.40	G		HEBRIDES RADIO	G	007W02 58N14	318	CP	2K80J3E			ND			0000 2359	
57	1744.40	G		GIBRALTAR	GIB	005W21 36N07	198	CP	2K80J3E			ND			0000 2359	
48	1744.40	G		ST HELENA	SHN	005W43 15S56	298	CP	2K80J3E			ND			0000 2359	
2602	1744.40	GRC		MOURNIES KRITIS	GRC	024E01 35N29	368	CO	2K80J3E			ND			0000 2359	
446	1744.40	HOL		DEN HELDER	HOL	004E45 52N55	179	CP	2K80J3E			ND			0000 2359	
885	1744.40	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1731	1744.40	NOR		HAMMERFEST	NOR	021E00 70N02	368	CP	2K80J3E			ND			0800 1800	
1704	1744.40	NOR		JAN MAYEN	NOR	008W40 70N57	368	CP	2K80J3E			ND			0000 2359	
2298	1744.40	POL		GDANSK	POL	018E40 54N22	400	CO	2K80J3E			ND			0000 2359	
2889	1744.40	TUN		SFAX	TUN	010E46 34N44	98	CR	2K80J3E			ND			0000 2359	
1339	1744.40	URS		ARKHANGHELSK	URS	040E37 64N36	370	CO	2K80J3E			ND			0000 2359	
1195	1744.40	URS		ROSTOV-NA-DONU	URS	039E40 47N16	400	CO	2K80J3E			ND			0000 2359	
1304	1744.40	URS		TAGANROG	URS	038E53 47N13	400	CO	2K80J3E			ND			0000 2359	
2183	1747.40	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	2K80J3E			ND			0000 2359	
1891	1747.40	F		GRASSE	F	006E55 43N40	400	CP	2K80J3E			ND			0000 2359	
410	1747.40	FNL		HELSINKI	FNL	025E02 60N09	298	CP	2K80J3E			ND			0000 2359	
1983	1747.40	GRC		KERKYRA	GRC	019E54 39N37	368	CP	2K80J3E			ND			0000 2359	
440	1747.40	HOL		TERSCHELLING LSTN	HOL	005E13 53N22	298	CP	2K80J3E			ND			0000 2359	
575	1747.40	IRL		VALENTIA	IRL	010W21 51N56	368	CP	2K80J3E			ND			0000 2359	
880	1747.40	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
1683	1747.40	NOR		AALESUND	NOR	006E12 62N28	368	CP	2K80J3E			ND			0000 2359	
2584	1747.40	TUR		ZONGULDAV	TUR	031E48 41N27	248	CP	2K80J3E			ND			0000 2359	
1353	1747.40	URS		MEZEN	URS	044E17 65N51	400	CP	2K80J3E			ND			0000 2359	
2874	1750.40	AFS		LUDERITZ	NMB	015E04 26S38	398	CP	2K80J3E			ND			0000 2359	
226	1750.40	G		AILSA CRAIG LTSN	G	005W06 55N15	148	OT	2K80J3E			ND			0000 2359	
228	1750.40	G		BARDSEY LSTN	G	000E24 51N39	148	OT	2K80J3E			ND			0000 2359	
229	1750.40	G		BASS RCK LSTN	G	002W38 56N05	148	OT	2K80J3E			ND			0000 2359	
230	1750.40	G		BELL RCK LSTN	G	002W23 56N26	148	OT	2K80J3E			ND			0000 2359	
234	1750.40	G		BUTT OF LEWIS LTSN	G	006W16 58N31	148	OT	2K80J3E			ND			0000 2359	
235	1750.40	G		CALF OF MAN LTSN	G	004W50 54N03	148	OT	2K80J3E			ND			0000 2359	
238	1750.40	G		COPINSAY LTSN	G	002W40 58N54	148	OT	2K80J3E			ND			0000 2359	
242	1750.40	G		DUNCANSBY HD LSTN	G	003W01 58N39	148	OT	2K80J3E			ND			0000 2359	
243	1750.40	G		EAST GOODWIN LSTN	G	001E36 51N13	148	OT	2K80J3E			ND			0000 2359	
250	1750.40	G		HYSKEIR LTSN	G	006W41 56N58	148	OT	2K80J3E			ND			0000 2359	
252	1750.40	G		I OF MAY LSTN	G	002W33 56N11	148	OT	2K80J3E			ND			0000 2359	
258	1750.40	G		MUCKLE FLUGGA LTSN	G	000W53 60N51	148	OT	2K80J3E			ND			0000 2359	
261	1750.40	G		N RONALDSAY LTSN	G	002W23 59N23	148	OT	2K80J3E			ND			0000 2359	

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0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
260	1750.40	G		NORTH GOODWIN LSTN	G	001E34 51N20	148	OT	2K80J3E			ND			0000 2359	
262	1750.40	G		OBAN DEPOT	G	005W29 56N25	148	OT	2K80J3E			ND			0900 1700	
264	1750.40	G		PENTLAND SKERRIES	G	002W55 58N41	148	OT	2K80J3E			ND			0000 2359	
265	1750.40	G		PLADDA LTSN	G	005W07 55N26	148	OT	2K80J3E			ND			0000 2359	
267	1750.40	G		RINNS OF ISLAY LTSN	G	006W31 55N40	148	OT	2K80J3E			ND			0000 2359	
269	1750.40	G		S ABBS LSTN	G	002W08 55N55	148	OT	2K80J3E			ND			0000 2359	
270	1750.40	G		SANDA LTSN	G	005W35 55N17	148	OT	2K80J3E			ND			0000 2359	
273	1750.40	G		SKERRIES LSTN	G	004W36 53N25	148	OT	2K80J3E			ND			0000 2359	
274	1750.40	G		SKERRYVORE LTSN	G	007W07 56N19	148	OT	2K80J3E			ND			0000 2359	
275	1750.40	G		SKOKHOLM LSTN	G	005W17 51N41	148	OT	2K80J3E			ND			0000 2359	
276	1750.40	G		SMALLS LSTN	G	005W40 51N43	148	OT	2K80J3E			ND			0000 2359	
277	1750.40	G		SOUTH BISHOP LSTN	G	005W24 51N51	148	OT	2K80J3E			ND			0000 2359	
278	1750.40	G		SOUTH GOODWIN LSTN	G	001E28 51N07	148	OT	2K80J3E			ND			0000 2359	
280	1750.40	G		STROMA LTSN	G	003W07 58N42	148	OT	2K80J3E			ND			0000 2359	
281	1750.40	G		STROMNESS	G	003W18 58N58	148	OT	2K80J3E			ND			0900 1700	
284	1750.40	G		TONGUE LSTN	G	001E23 51N30	148	OT	2K80J3E			ND			0000 2359	
285	1750.40	G		TURNBERRY	G	004W50 55N19	148	OT	2K80J3E			ND			0900 1700	
287	1750.40	G		VARNE LSTN	G	001E24 51N01	148	OT	2K80J3E			ND			0000 2359	
1982	1750.40	GRC		LIMNOS	GRC	025E11 39N54	368	CP	2K80J3E			ND			0000 2359	
877	1750.40	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
2254	1750.40	MCO		MONACO RADIO	MCO	007E25 43N43	400	CP	2K80J3E			ND			0000 2359	
870	1750.40	MRC		NADOR	MRC	002W56 35N10	400	CP	2K80J3E			ND			0000 2359	
2297	1750.40	POL		DZIWNOW	POL	014E44 54N01	400	CV	2K80J3E			ND			0000 2359	
2416	1750.40	TUN		TUNIS RADIO 2 MDN	TUN	010E11 36N53	400	CO	2K80J3E			ND			0000 2359	
2593	1750.40	TUR		ISKENDERUN	TUR	036E07 36N37	248	CP	2K80J3E			ND			0000 2359	
1238	1750.40	URS		BAKU	URS	049E45 40N20	400	CO	2K80J3E			ND			0000 2359	
1763	1753.40	D		NORDDEICH RADIO	D	007E12 53N38	400	CP	2K80J3E			ND			0000 2359	
481	1753.40	E		MACHICHACO RADIO	E	002W45 43N27	368	CP	2K80J3E			ND			0000 2359	
2804	1753.40	EGY		ALEXANDRIA RADIO	EGY	029E52 31N12	400	CP	2K80J3E			ND			0000 2359	
427	1753.40	FNL		HANKO	FNL	022E57 59N50	400	CP	2K80J3E			ND			0000 2359	
711	1753.40	I		ANCONA	I	013E31 43N37	379	CO	2K80J3E			ND			0000 2359	
574	1753.40	IRL		VALENTIA	IRL	010W21 51N56	368	CP	2K80J3E			ND			0000 2359	
881	1753.40	IRQ		BASRAH	IRQ	047E47 30N33	400	CR	2K80J3E			ND			0000 2359	
2917	1753.40	LBY		TRIPOLI RADIO	LBY	013E11 32N54	400	CP	2K80J3E			ND			0000 2359	
2588	1753.40	TUR		CANAKKALE	TUR	026E24 40N08	248	CP	2K80J3E			ND			0000 2359	
2681	1756.40	CME		LIMBE	CME	009E22 04N02	398	CP	2K80J3E			ND			0700 1900	
2696	1756.40	E		PALMA DE MALLORCA	E	002W43 39N32	368	CP	2K80J3E			ND			0000 2359	
146	1756.40	G		HUMBER RADIO	G	000E17 53N20	159	CP	2K80J3E			ND			0000 2359	
163	1756.40	G		PORTPATRICK RADIO	G	005W07 54N51	238	CP	2K80J3E			ND			0000 2359	
171	1756.40	G		STONEHAVEN RADIO	G	002W13 56N57	238	CP	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
174	1756.40	G		WICK RADIO	G	003W06 58N26	318	CP	2K80J3E			ND			0000 2359	
816	1756.40	I		TRAPANI RADIO	I	012E30 38N01	398	CP	2K80J3E			ND			0000 2359	
2080	1756.40	ISL		SIGLUFJORDUR RADIO	ISL	018W57 66N11	400	CP	2K80J3E			ND			0000 2359	
2577	1756.40	MRC		AGADIR RADIO	MRC	009W33 30N22	398	CP	2K80J3E			ND				
2320	1756.40	POL		MIEDZYWODZIE	POL	014E42 54N01	400	OT	2K80J3E			ND			0000 2359	
2349	1756.40	UAE		BADA HAMAMA	UAE	052E45 24N15	281	CV	2K80J3E			ND			0000 2359	
1342	1756.40	URS		ARKHANGHELSK	URS	040E37 64N36	400	OT	2K80J3E			ND			0000 2359	
2827	1756.40	YEM		ALAHMADI	YEM	042E54 14N55	400	CP	2K80J3E			ND			0000 2359	
2736	1759.40	ALB		SHENGJIN RADIO	ALB	019E35 41N49	198	CP	2K80J3E			ND			0000 2359	
2266	1759.40	ALB		VLORA PT RADIO	ALB	019E29 40N27	148	CP	2K80J3E			ND			0000 2359	
2184	1759.40	ALG		BEJAIA RADIO	ALG	005E05 36N45	400	CP	2K80J3E			ND			0000 2359	
2048	1759.40	DNK		SKAGEN	DNK	010E34 57N44	348	CP	2K80J3E			ND			0000 2359	
2052	1759.40	DNK		TORSHAVN	DNK	006W47 62N01	348	CP	2K80J3E			ND			0000 2359	
476	1759.40	E		FINISTERRE RADIO	E	009W16 42N54	368	CP	2K80J3E			ND			0000 2359	
418	1759.40	FNL		VAASA RV	FNL	021E43 63N05	298	CO	2K80J3E			ND			0000 2359	
155	1759.40	G		NITON RADIO	G	001W18 50N35	318	CP	2K80J3E			ND			0000 2359	
2442	1759.40	ROU		CONSTANTA	ROU	028E37 44N06	248	OT	2K80J3E			ND			0000 2359	
2352	1759.40	UAE		SHARJAH	UAE	055E17 25N22	198	CV	2K80J3E			ND			0700 2000	
1221	1759.40	URS		MAKHATCHKALA	URS	047E30 42N59	400	CO	2K80J3E			ND			0000 2359	
1140	1759.40	URS		NOVOROSSIISK	URS	037E42 44N42	92	CO	2K80J3E			ND			0000 2359	
2083	1762.40	ALG		ALGER RADIO	ALG	003E18 36N40	400	CP	2K80J3E			ND			0000 2359	
2679	1762.40	CME		DOUALA	CME	009E43 04N01	398	CV	2K80J3E			ND			0000 2359	
514	1762.40	E		ARRECIFE RADIO	CNR	013W31 29N08	368	CP	2K80J3E			ND			0000 2359	
471	1762.40	E		CORUNA RADIO	E	008W27 43N22	368	CP	2K80J3E			ND			0000 2359	
144	1762.40	G		HUMBER RADIO	G	000E17 53N20	159	CP	2K80J3E			ND			0000 2359	
754	1762.40	I		CROTONE RADIO	I	017E08 39N03	398	CP	2K80J3E			ND			0000 2359	
767	1762.40	I		LIVORNO RADIO	I	010E11 43N29	198	CP	2K80J3E			ND			0000 2359	
2074	1762.40	ISL		NESKAUPSSTADUR RADIO	ISL	013W42 65N09	400	CP	2K80J3E			ND			0000 2359	
2899	1762.40	MTN		NOUAKCHOTT RADIO	MTN	015W58 18N06	400	CP	2K80J3E			ND			0000 2359	
2335	1762.40	POL		SWINOUJSCIE	POL	014E15 53N52	400	OT	2K80J3E			ND			0000 2359	
2356	1762.40	UAE		SHARJAH	UAE	055E17 25N22	148	CV	2K80J3E			ND			0000 2359	
1194	1762.40	URS		ROSTOV-NA-DONU	URS	039E40 47N16	400	CO	2K80J3E			ND			0000 2359	
2875	1765.40	AFS		LUDERITZ	NMB	015E04 26S38	398	CP	2K80J3E			ND			0000 2359	
2087	1765.40	ALG		ALGER RADIO	ALG	003E18 36N40	400	CP	2K80J3E			ND			0000 2359	
2050	1765.40	DNK		ROENNE	DNK	015E07 55N03	348	CP	2K80J3E			ND			0000 2359	
477	1765.40	E		FINISTERRE RADIO	E	009W16 42N54	368	CP	2K80J3E			ND			0000 2359	
142	1765.40	G		GUERNSEY RADIO	G	002W31 49N27	148	CP	2K80J3E			ND			0000 2359	
172	1765.40	G		WICK RADIO	G	003W06 58N26	318	CP	2K80J3E			ND			0000 2359	
2833	1765.40	GHA		AKORADI	GHA	001W45 04N54	400	CP	100HA1A			ND			0000 2359	
752	1765.40	I		CROTONE RADIO	I	017E08 39N03	398	CP	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2544	1765.40	MRC		EL JADIDA RADIO	MRC	008W40 33N07	298	CP	2K80J3E			ND			0000 2359	
2456	1765.40	ROU		SULINA	ROU	029E39 45N09	400	CP	2K80J3E			ND			0000 2359	
2357	1765.40	UAE		DUBAI	UAE	055E16 25N14	159	CV	2K80J3E			ND			0000 2359	
1278	1765.40	URS		ASTRAKHAN	URS	047E42 46N55	400	CP	2K80J3E			ND			0000 2359	
2660	1768.40	CME		CAMPO	CME	009E51 02N22	398	CP	2K80J3E			ND			0000 2359	
2057	1768.40	DNK		BLAAVAND	DNK	008E07 55N33	348	CP	2K80J3E			ND			0000 2359	
452	1768.40	E		CABO DE GATA RADIO	E	002W12 36N43	368	CP	2K80J3E			ND			0000 2359	
150	1768.40	G		LANDS END RADIO	G	005W40 50N07	318	CP	2K80J3E			ND			0000 2359	
1980	1768.40	GRC		ATHINAI	GRC	023E53 38N00	368	CP	2K80J3E			ND			0000 2359	
824	1768.40	I		TRIESTE RADIO	I	013E46 45N40	398	CP	2K80J3E			ND			0000 2359	
865	1768.40	MRC		LAAYOUNE	MRC	013W13 27N10	400	CP	2K80J3E			ND			0000 2359	
2251	1768.40	OMA		MUSCAT	OMA	058E30 23N37	398	CO	2K80J3E			ND			0000 2359	
359	1768.40	S		HAARSFJAERDEN RADIO	S	018E40 58N59	198	CO	2K80J3E			ND			0000 2359	
2415	1768.40	TUN		TUNIS RADIO	TUN	010E11 36N53	400	CP	2K80J3E			ND			0000 2359	
2359	1768.40	UAE		JEBEL DHANNA	UAE	052E38 24N10	198	CV	2K80J3E			ND			0000 2359	
1237	1768.40	URS		BAKU	URS	049E45 40N20	400	OT	2K80J3E			ND			0000 2359	
2182	1771.40	ALG		GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	2K80J3E			ND			0000 2359	
2659	1771.40	CME		CAMPO	CME	009E51 02N22	398	CV	2K80J3E			ND			0000 2359	
2468	1771.40	CTI		ABIDJAN	CTI	003W58 05N21	298	CP	2K80J3E			ND			0000 2359	
1894	1771.40	F		BOULOGNE MER	F	001E38 50N43	400	CP	2K80J3E			ND			0000 2359	
159	1771.40	G		NORWICK RADIO	G	000W45 60N29	318	CP	2K80J3E			ND			0000 2359	
784	1771.40	I		MESSINA RADIO	I	015E33 38N11	398	CP	2K80J3E			ND			0000 2359	
2077	1771.40	ISL		REYKJAVIK RADIO	ISL	022W02 64N09	400	CP	2K80J3E			ND			0000 2359	
1689	1771.40	NOR		BODOE	NOR	014E23 67N16	368	CP	2K80J3E			ND			0000 2359	
363	1771.40	S		KARLSKRONA RADIO	S	015E33 56N11	198	CO	2K80J3E			ND			0000 2359	
941	1771.40	URS		IALTA	UKR	034E10 44N39	277	CP	2K80J3E			ND			0000 2359	
2191	1774.40	BEL		ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
1976	1774.40	BUL		MITCHOURIN RADIO	BUL	027E08 42N09	400	CO	2K80J3E			ND			0000 2359	
750	1774.40	I		CIVITAVECCHIA RADIO	I	011E49 42N01	398	CP	2K80J3E			ND			0000 2359	
2523	1774.40	KWT		HUBAN	KWT	047E41 29N31	159	CP	2K80J3E			ND			0000 2359	
2895	1774.40	LBY		TOBRUK	LBY	023E59 32N02	400	CP	2K80J3E			ND			0000 2359	
871	1774.40	MRC		NADOR	MRC	002W56 35N10	400	CP	2K80J3E			ND			0000 2359	
1708	1774.40	NOR		TRONDHEIM	NOR	010E25 63N26	98	CO	2K80J3E			ND			0000 2359	
369	1774.40	S		TINGSTAEDE RADIO	S	018E36 57N44	298	CO	2K80J3E			ND			0000 2359	
2252	1774.40	TGO		LOME RADIO	TGO	001E36 06N15	198	CP	2K80J3E			ND			0715 1930	
2671	1777.40	CME		GRAND BATANGA	CME	009E52 02N43	398	CP	2K80J3E			ND			0000 2359	
2470	1777.40	CTI		ABIDJAN RADIO	CTI	003W58 05N21	298	CP	2K80J3E			ND			0000 2359	
1841	1777.40	F		BAYONNE	F	001W24 43N16	400	CO	2K80J3E			ND			0000 2359	
1987	1777.40	GRC		RHODOS	GRC	028E12 36N26	368	CP	2K80J3E			ND			0000 2359	
448	1777.40	HOL		DEN HELDER	HOL	004E45 52N55	359	CP	2K80J3E			ND			0000 2359	

STATION COTIERE D'EMISSION * TRANSMITTING COAST STATIONS * ESTACION COSTERA TRANSMISORA 54 03/13/85

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
728	1777.40	I		AUGUSTA RADIO	I	015E13 37N13	398	CP	2K80J3E			ND			0000 2359	
2321	1777.40	POL		MIEDZYZDROJE	POL	014E28 53N56	400	OT	2K80J3E			ND			0000 2359	
1097	1777.40	URS		ASTRAKHAN	URS	047E42 46N55	400	CO	2K80J3E			ND			0000 2359	
1189	1777.40	URS		ASTRAKHAN	URS	047E42 46N55	400	CO	2K80J3E			ND			0000 2359	
1507	1777.40	URS		LENINGRAD	URS	030E21 59N59	400	CO	2K80J3E			ND			0000 2359	
1078	1777.40	URS		MUMRA	URS	047E41 45N45	400	CO	2K80J3E			ND			0000 2359	
2678	1780.40	CME		DOUALA	CME	009E43 04N01	398	CP	2K80J3E			ND			0000 2359	
465	1780.40	E		CHIPIONA RADIO	E	006W25 36N42	368	CP	2K80J3E			ND			0000 2359	
140	1780.40	G		CULLERCOATS RADIO	G	001W28 55N04	318	CP	2K80J3E			ND			0000 2359	
1984	1780.40	GRC		KERKYRA	GRC	019E54 39N37	368	CP	2K80J3E			ND			0000 2359	
2249	1780.40	OMA		WUDHAM	OMA	057E33 23N49	398	CO	2K80J3E			ND			0000 2359	
2295	1780.40	POL		DARLOWO	POL	016E25 54N24	400	CV	2K80J3E			ND			0000 2359	
380	1780.40	S		HAERNOESAND RADIO	S	021E36 64N28	400	CP	2K80J3E			ND			0000 2359	
2412	1780.40	TUN		TABARKA RADIO	TUN	006E25 36N57	400	CP	2K80J3E			ND			0600 1900	
1141	1780.40	URS		NOVOROSSIISK	URS	037E42 44N42	400	CP	2K80J3E			ND			0000 2359	
1786	1783.40	D		CUXHAVEN	D	008E43 53N32	227	CO	2K80J3E			ND			0000 2359	
138	1783.40	G		ANGLESEY RADIO	G	004W18 53N24	159	CP	2K80J3E			ND			0000 2359	
715	1783.40	I		LA SPEZIA	I	009E43 44N06	218	CO	2K80J3E			ND			0000 2359	
776	1783.40	I		MAZARA VALLO RADIO	I	012E34 37N38	398	CP	2K80J3E			ND			0000 2359	
2524	1783.40	KWT		HUBAN	KWT	047E41 29N31	159	CP	2K80J3E			ND			0000 2359	
2575	1783.40	MRC		TANGER RADIO	MRC	005W51 35N44	400	CP	2K80J3E			ND				
1685	1783.40	NOR		OERLANDET	NOR	009E36 63N41	368	CP	2K80J3E			ND			0000 2359	
1733	1783.40	NOR		VARDOE	NOR	029E04 70N52	368	CP	2K80J3E			ND			0800 1800	
2452	1783.40	ROU		TULCEA	ROU	028E50 45N12	400	CP	2K80J3E			ND			0000 2359	
1383	1783.40	URS		KLAIPEDA	URS	021E12 55N46	400	CO	2K80J3E			ND			0000 2359	
1241	1783.40	URS		MAKHATCHKALA	URS	047E30 42N59	400	CO	2K80J3E			ND			0000 2359	
2666	1786.40	CME		KRIBI	CME	009E43 02N53	398	CP	2K80J3E			ND			0700 1900	
911	1786.40	CYP		CYPRUS RADIO	CYP	033E17 35N03	298	CP	2K80J3E			ND			0000 2359	
494	1786.40	E		CADIZ	E	006W12 36N15	398	CO	2K80J3E			ND			0000 2359	
1851	1786.40	F		LA PALLICE	F	000W59 45N56	400	CO	2K80J3E			ND			0000 2359	
425	1786.40	FNL		KOTKA RV	FNL	026E46 60N28	298	CO	2K80J3E			ND			0000 2359	
2834	1786.40	GHA		TAKORADI	GHA	001W45 04N54	400	CP	100HA1A			ND			0000 2359	
794	1786.40	I		NAPOLI RADIO	I	014E14 40N50	398	CP	2K80J3E			ND			0000 2359	
1720	1786.40	NOR		FARSUND	NOR	006E45 58N04	368	CP	2K80J3E			ND			0800 1800	
1764	1789.40	D		KIEL RADIO	D	010E08 54N26	400	CP	2K80J3E			ND			0000 2359	
1860	1789.40	F		SETE	F	003E41 43N24	185	CO	2K80J3E			ND			0000 2359	
139	1789.40	G		CLYDE (TOWARD)	G	004W59 55N52	274	CO	2K80J3E			ND			0000 2359	
161	1789.40	G		PORTLAND	G	002W27 50N31	274	CO	2K80J3E			ND			0000 2359	
780	1789.40	I		MAZARA VALLO RADIO	I	012E34 37N38	398	CP	2K80J3E			ND			0000 2359	
2531	1789.40	KWT		HUBAN	KWT	047E41 29N31	400	CP	2K80J3E			ND			0300 2100	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2576	1789.40	MRC		TANGER RADIO	MRC	005W51 35N44	400	CP	2K80J3E			ND				
1061	1789.40	URS		JDANOV	UKR	037E31 47N08	400	CP	2K80J3E			ND			0000 2359	
1478	1789.40	URS		BELOMORSK	URS	034E41 64N36	400	CO	2K80J3E			ND			0000 2359	
1463	1789.40	URS		KINGISEPP	URS	022E33 58N15	92	CO	2K80J3E			ND			0000 2359	
2166	1792.40	ALG		BEJAIA RADIO	ALG	005E05 36N45	400	CP	2K80J3E			ND			0000 2359	
2479	1792.40	CTI		S. PEDRO PORT	CTI	006W37 04N44	198	CR	2K80J3E			ND			0000 2359	
345	1792.40	DDR		RUEGEN	DDR	013E37 54N35	400	CP	2K80J3E			ND			0000 2359	
1846	1792.40	F		CHERBOURG	F	001W37 49N35	348	CO	2K80J3E			ND			0000 2359	
420	1792.40	FNL		HAILUOTO RV	FNL	024E39 64N58	298	CO	2K80J3E			ND			0000 2359	
318	1792.40	G		MORAY COASTGUARD	G	001W46 57N30	179	OT	2K80J3E			ND			0000 2359	
2230	1792.40	GAB		LIBREVILLE	GAB	009E26 00N25	248	CR	2K80J3E			ND			0600 1800	
449	1792.40	HOL		AMSTERDAM	HOL	004E51 52N22	179	CP	2K80J3E			ND			0000 2359	
721	1792.40	I		ANCONA RADIO	I	013E28 43N36	198	CP	2K80J3E			ND			0000 2359	
600	1792.40	POR		ALCANTARA	POR	009W13 38N43	198	CO	2K80J3E			ND			0000 2359	
2437	1792.40	ROU		AGIGEA	ROU	028E39 44N06	400	CP	2K80J3E			ND			0000 2359	
2089	1795.40	ALG		ORAN RADIO	ALG	000W08 35N46	400	CP	2K80J3E			ND			0000 2359	
1960	1795.40	BUL		VARNA RADIO	BUL	027E46 43N04	400	CO	2K80J3E			ND			0000 2359	
2229	1795.40	GAB		LIBREVILLE	GAB	009E26 00N25	248	CR	2K80J3E			ND			0000 2359	
2816	1795.40	GUI		CONAKRY	GUI	013W43 09N31	400	CR	2K80J3E			ND			0000 2359	
761	1795.40	I		GENOVA RADIO	I	008E56 44N25	198	CP	2K80J3E			ND			0000 2359	
544	1795.40	IRL		HAULBOWLINE	IRL	008W18 51N50	368	CO	2K80J3E			ND			0000 2359	
2419	1795.40	MLT		XLOKK RADIO	MLT	014E32 35N49	400	CP	2K80J3E			ND			0000 2359	
864	1795.40	MRC		LAAYOUNE	MRC	013W13 27N10	400	CP	2K80J3E			ND			0000 2359	
2342	1795.40	POL		SZCZECIN	POL	014E35 53N28	400	CP	2K80J3E			ND			0000 2359	
1247	1795.40	URS		FORT SHEVTCHENKO	URS	050E18 44N30	400	CO	2K80J3E			ND			0000 2359	
1082	1795.40	URS		GURIEV	URS	051E55 47N03	400	CO	2K80J3E			ND			0000 2359	
1166	1795.40	URS		TEMRIUK	URS	037E24 45N17	92	CO	2K80J3E			ND			0000 2359	
2098	1798.40	ALG		TENES RADIO	ALG	001E18 36N32	400	CP	2K80J3E			ND			0000 2359	
2650	1798.40	BEN		COTONOU	BEN	002E28 06N22	400	CP	2K80J3E			ND			0000 2359	
1853	1798.40	F		LE HAVRE	F	000E06 49N29	348	CO	2K80J3E			ND			0000 2359	
173	1798.40	G		WICK RADIO	G	003W06 58N26	318	CP	2K80J3E			ND			0000 2359	
2421	1798.40	MLT		XLOKK RADIO	MLT	014E32 35N49	400	CP	2K80J3E			ND			0000 2359	
867	1798.40	MRC		DAKHLA	MRC	015W56 23N42	348	CP	2K80J3E			ND			0000 2359	
874	1798.40	MRC		SAFI RADIO	MRC	009W14 32N18	198	CP	2K80J3E			ND			0000 2359	
597	1798.40	POR		DOCA PESCA	POR	009W13 38N43	198	OT	2K80J3E			ND			0000 2359	
2441	1798.40	ROU		CONSTANTA	ROU	028E37 44N06	400	CP	2K80J3E			ND			0000 2359	
387	1798.40	S		STOCKHOLM RADIO	S	014E19 55N29	400	CP	2K80J3E			ND			0000 2359	
1188	1798.40	URS		ASTRAKHAN	URS	047E42 46N55	400	CP	2K80J3E			ND			0000 2359	
1310	1798.40	URS		MURMANSK	URS	033E10 68N58	400	CP	2K80J3E			ND			0000 2359	

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Corrigendum No. 1 au
Document No. 136-F/E/S
15 mars 1985
Original : français/
anglais/
espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

Doc./ page	Adm.	No. de série IFRB/ IFRB Serial No./ N.o de serie IFRB	Fréquence/ Frequency/ Frecuencia	MOD / SUP /ADD
			416,00	Toutes les largeurs de bandes nécessaires de 2K14 à remplacer par : 2K00/ All necessary bandwidths of 2K14 to be replaced by: 2K00/ Todas las anchuras de banda necesarias de 2K14 se reemplazarán por: 2K00
1	GHA	51070	416,00	MOD Col. 1 : 428 kHz Col. 6 : 000W54 06N09
1	MLT	50002	416,00	MOD Col. 9 : 850HA2A
1	QAT	50627 50900	416,00	ADD Col. 7 : 100
2	URS	50122	417,00	ADD
3	YUG	50291	417,00	ADD
7	URS	50157	421,00	ADD
7	BUL	50479	422,00	MOD Col. 4 : SLIVEN
8	ALG	50535	423,00	SUP
8	ALG	50964	423,00	ADD
8	BUL	50477	423,00	MOD Col. 4 : VARNA
11	GHA	51067	426,00	MOD Col. 6 : 000W10 05N37
11	QAT	50626 50899	426,00	ADD Col. 7 : 200
12	GHA	51068	428,00	MOD Col. 1 : 514 kHz
13	MLT	50661	428,00	MOD Col. 9 : 2K14A2A
13	URS	50185	428,00	ADD
15	URS	50185	431,00	ADD
15	GHA	51066	431,00	MOD Col. 6 : 000W08 05N40

Pour des raisons d'économie, ce document n'a été tiré qu'en un nombre restreint d'exemplaires. Les participants sont donc priés de bien vouloir apporter à la réunion leurs documents avec eux, car il n'y aura pas d'exemplaires supplémentaires disponibles.

Doc./ page	Adm.	No. de série IFRB/ IFRB Serial No./ N.o de serie IFRB	Fréquence/ Frequency/ Frecuencia	MOD / SUP /ADD
17/ 18			434,00	Toutes les largeurs de bandes nécessaires de 2K14 à remplacer par : 2K00/ All necessary bandwidths of 2K14 to be replaced by: 2K00/ Todas las anchuras de banda necesarias de 2K14 se reemplazarán por: 2K00
18			511,00	ADD Col. 13 : Note/Nota 1 : Pour la largeur de bande nécessaire, voir la note en bas de page ****) contenue dans le Tableau 4 de l'Annexe 3 de l'Accord/ For the necessary bandwidth, see footnote ****) in Table 4 of Annex 3 of the Agreement/ Para la anchura de banda necesaria véase la nota ****) que figura en el Cuadro 4 del Anexo 3 del Acuerdo
18	GHA	51069	515,00	MOD Col. 1 : 525 kHz Col. 4 : KUMASI Col. 6 : 001W35 06N45
19	GHA	51064	519,00	MOD Col. 6 : 000W52 09N24
19			517,00 519,00	Toutes les largeurs de bandes nécessaires de 2K14 à remplacer par : 850H/ All necessary bandwidths of 2K14 to be replaced by: 850H/ Todas las anchuras de banda necesarias de 2K14 se reemplazarán por: 850H
20			526,00	idem

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Document 136-F/E/S
12 mars 1985
Original: français
anglais
espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

PROJECT DE PLAN D'ASSIGNATIONS DE FREQUENCE AUX STATIONS DU SERVICE DE RADIONAVIGATION AERONAUTIQUE (RADIOPHARES) DE LA REGION 1 DANS LES BANDES 415 - 435 kHz et 510 - 526,5 kHz

DRAFT FREQUENCY ASSIGNMENT PLAN FOR STATIONS IN THE AERONAUTICAL RADIONAVIGATION SERVICE (RADIOBEACONS) IN REGION 1 IN THE BANDS 415 - 435 kHz and 510 - 526.5 kHz

PROYECTO DE PLAN DE ASIGNACIONES DE FRECUENCIA A ESTACIONES DEL SERVICIO DE RADIONAVEGACION AERONAUTICA (RADIOFAROS) DE LA REGION 1 EN LAS BANDAS 415 - 435 kHz y 510 - 526,5 kHz

Annexe/Annex/Anexo: 1

Pour des raisons d'économie, ce document n'a été tiré qu'en un nombre restreint d'exemplaires. Les participants sont donc priés de bien vouloir apporter à la réunion leurs documents avec eux, car il n'y aura pas d'exemplaires supplémentaires disponibles.

Renseignements inclus dans les colonnes du Plan (Région 1) pour le service de radionavigation aéronautique (radiophares) dans les bandes 415 - 435 kHz et 510 - 526,5 kHz

Colonne

0. Numéro de série de l'IFRB

1. Fréquence assignée (kHz)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude (degrés et minutes) de la station d'émission

7. Rayon (km) de la zone de service circulaire

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance apparente rayonnée nécessaire sur une antenne verticale courte (p.a.r.v.) (dBW)

    (valeur calculée sur la base du champ minimum à proteger et de la portée de service dans les conditions de propagation par onde de sol)

11. Caractéristiques de l'antenne (ND)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

ANNEX 2

Information included in the columns of the Plan (Region 1) for the aeronautical radionavigation service (radiobeacons) in the bands 415 - 435 kHz and 510 - 526.5 kHz

Column

0. IFRB Serial No.

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and necessary class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)

(value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Informaciones incluidas en las columnas del Plan (Región 1) para el servicio de radionavegación aeronáutica (radiofaros) en las bandas 415 - 435 kHz y 510 - 526,5 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6. Longitud y latitud (grados y minutos) de la estación transmisora

7. Radio (km) de la zona de servicio circular

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión necesaria

10. Potencia radiada aparente referida a una antena vertical corta p.r.a.v. (dBW)

(valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

11. Características de la antena (ND)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50529	416.00		ALG	ALGER	ALG	003E13 36N42	298	RC	2K14A2A		ND	0000 2359	
50512	416.00		ALG	INSALAH	ALG	002E31 27N15	298	RC	2K14A2A		ND	0000 2359	
50492	416.00		ARS	RAGHBA	ARS	044E35 23N55	127	RC	850HA2A		ND	0000 2359	
51095	416.00		BDI	BULINGA	BDI	029E19 03S14	38	RC	2K14A2A		ND	0000 2359	
50484	416.00		BUL	IAMBOL	BUL	026E30 42N28	29	RC	2K14A2A		ND	0000 2359	
51002	416.00		CME	TOUBORO	CME	015E40 07N40	179	RC	2K14A2A		ND	0000 2359	
50723	416.00		CPV	FOGO	CPV	024W29 14N53	92	RC	2K14A2A		ND	0000 2359	
50655	416.00		DDR	LEIPZIG-MOCKAU	DDR	012E17 51N26	18	RC	2K14A2A		ND	0000 2359	
50241	416.00		E	SANTANDER	E	003W51 43N26	92	RC	2K14A2A		ND	0000 2359	
50380	416.00		F	BORDEAUX SOUGE	F	000W48 44N51	44	RC	2K14A2A		ND	0000 2359	
50364	416.00		F	CAMBRAI NIERGNIES	F	003E16 50N08	92	RC	2K14A2A		ND	0000 2359	
50374	416.00		F	DIEUZE	F	006E45 48N47	44	RC	2K14A2A		ND	0000 2359	
50363	416.00		F	LA VERDIERE	F	006E00 43N40	92	RC	2K14A2A		ND	0000 2359	
50360	416.00		F	USSEL THALAMY	F	002E26 45N31	44	RC	2K14A2A		ND	0000 2359	
50098	416.00		FNL	RAYSKALA	FNL	024E07 60N45	88	RC	2K14A2A		ND	0000 2359	
50073	416.00		FNL	ROVANIEMI	FNL	025E58 66N38	88	RC	2K14A2A		ND	0000 2359	
50406	416.00		G	NEWCASTLE	G	001W48 55N00	46	RC	850HA2A		ND	0000 2359	
51070	416.00		GHA	KADE	GHA	005W55 06N40	24	RC	2K14A2A		ND	0000 2359	
50927	416.00		GRC	KASTELORIZO	GRC	029E34 36N08	48	RC	850HA2A		ND	0000 2359	
50925	416.00		GRC	SKYROS	GRC	024E29 38N58	59	RC	850HA2A		ND	0000 2359	
50004	416.00		HNG	BEKESCSABA	HNG	021E08 46N41	48	RC	850HA2A		ND	0500 1900	
50017	416.00		HNG	PUSZTAEGRES	HNG	018E31 46N52	48	RC	850HA2A		ND	0000 2359	
50766	416.00		HOL	LELYSTAD	HOL	005E32 52N27	29	RC	2K14A2A		ND	0000 2359	
50464	416.00		IRL	PLATFORM 1	IRL	011W00 53N00	44	RC	2K14A2A		ND	0000 2359	
51091	416.00		LBY	TAZERBO	LBY	021E06 25N40	298	RC	2K14A2A		ND	0000 2359	
50002	416.00		MLT	LUCA	MLT	014E32 35N49	298	RC	100HN0N		ND	0000 2359	
50843	416.00		MRC	BENI MELLAL	MRC	006W20 32N55	298	RC	2K14A2A		ND	0000 2359	
50852	416.00		MRC	HADUZA	MRC	011W10 27N15	198	RC	2K14A2A		ND	0000 2359	
50585	416.00		POL	POZNAN	POL	017E02 52N56	74	RC	2K14A2A		ND	0000 2359	
50382	416.00		POR	LAJES	AZR	027W06 38N46	179	RC	2K14A2A		ND	0000 2359	
50385	416.00		POR	PORTO SANTO	MDR	016W21 33N04	179	RC	2K14A2A		ND	0000 2359	
50384	416.00		POR	TANCOS	POR	008W21 39N28	179	RC	2K14A2A		ND	0000 2359	
50741	416.00		ROU	CONSTANTA	ROU	028E31 44N25	27	RC	2K14A2A		ND	0000 2359	
50037	416.00		S	BACCHUS	S	017E03 62N34	46	RC	2K14A2A		ND	0000 2359	
50038	416.00		S	BERGA	S	018E13 59N04	46	RC	850HA2A		ND	0000 2359	
50027	416.00		SUI	BERN	SUI	007E31 46N54	44	RC	2K14A2A		ND	0000 2359	
50217	416.00		TCH	KUNOVICE	TCH	017E30 49N07	44	RC	2K14A2A		ND	0000 2359	
50224	416.00		TCH	VODOCHODY	TCH	014E26 50N13	44	RC	2K14A2A		ND	0000 2359	
50934	416.00		TGO	NIAMTOUGO	TGO	001E03 09N42	398	RC	2K14A2A		ND	0000 2359	
50153	416.00		URS	BAKU	URS	049E45 40N20	48	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50124	416.00		URS	KICHINEV	URS	028E52 47N00	48	RC	2K14A2A		ND	0000 2359	
50180	416.00		URS	MAKHATCHKALA	URS	047E31 42N59	48	RC	2K14A2A		ND	0000 2359	
50123	416.00		URS	YEREVAN	URS	044E36 40N14	148	RC	2K14A2A		ND	0000 2359	
50301	416.00		YUG	POZAREVAC	YUG	021E09 44N37	29	RC	2K14A2A		ND	0000 2359	
50292	416.00		YUG	UZICE	YUG	019E52 43N46	24	RC	2K14A2A		ND	0000 2359	
50431	416.50		D	LECK	D	009E04 54N46	46	RC	2K14A2A		ND	0000 2359	
50497	417.00		ARS	SIBLI INTERSECTION	ARS	046E23 26N57	127	RC	850HA2A		ND	0000 2359	
50482	417.00		BUL	SOFIA	BUL	023E24 42N41	29	RC	2K14A2A		ND	0000 2359	
51008	417.00		CME	DJOUM	CME	012E38 02N40	179	RC	2K14A2A		ND	0000 2359	
50783	417.00		CTI	ODIENNE	CTI	007W34 09N30	198	RC	2K14A2A		ND	0000 2359	
50461	417.00		D	EINBECK	D	009E50 51N50	46	RC	2K14A2A		ND	0000 2359	
50432	417.00		D	HEIDELBERG	D	008E36 49N23	46	RC	2K14A2A		ND	0000 2359	
50645	417.00		DDR	GROSS KREUTZ	DDR	012E46 52N24	18	RC	2K14A2A		ND	0000 2359	
50254	417.00		E	ALCOBENDAS	E	003W41 40N35	55	RC	2K14A2A		ND	0000 2359	
50240	417.00		E	SANTIAGO	E	008W26 42N54	72	RC	2K14A2A		ND	0000 2359	
50462	417.00		ETH	MASSAWA	ETH	039E21 15N37	198	RC	2K14A2A		ND	0000 2359	
50346	417.00		F	AUXERRE BASSOU	F	003E30 47N55	44	RC	2K14A2A		ND	0000 2359	
50361	417.00		F	TARBES OSSUN	F	000W01 43N12	44	RC	2K14A2A		ND	0000 2359	
50097	417.00		FNL	RAUTAVAARA	FNL	028E08 63N25	88	RC	2K14A2A		ND	0000 2359	
50395	417.00		G	BOURNEMOUTH	G	001W50 50N47	92	RC	850HA2A		ND	0000 2359	
50399	417.00		G	FINNINGLEY	G	001W00 53N29	46	RC	850HA2A		ND	0000 2359	
50403	417.00		G	LEUCHARS	G	002W52 56N22	55	RC	850HA2A		ND	0000 2359	
50418	417.00		G	OIL PLT INDE J	G	002E38 53N22	35	RC	850HA2A		ND	0000 2359	
50923	417.00		GRC	PAROS	GRC	025E08 37N01	59	RC	850HA2A		ND	0000 2359	
50117	417.00		HOL	EINDHOVEN	HOL	005E27 51N27	29	RC	2K14A2A		ND	0000 2359	
50110	417.00		I	PERETOLA	I	011E12 43N48	88	RC	2K14A2A		ND	0000 2359	
50465	417.00		IRL	PLATFORM 2	IRL	011W00 53N00	44	RC	2K14A2A		ND	0000 2359	
50562	417.00		MAU	RAPHAEL ISLAND	MAU	059E33 16S26	198	RC	850HA2A		ND	0400 1100	
50540	417.00		MDG	BESALAMPY	MDG	044E29 16S45	88	RC	2K14A2A		ND	0300 1500	
50595	417.00		POL	WROCLAW	POL	017E00 51N13	44	RC	2K14A2A		ND	0000 2359	
50745	417.00		ROU	CRAIOVA	ROU	023E59 44N19	44	RC	2K14A2A		ND	0000 2359	
50034	417.00		S	AENGELHOLM	S	012E54 56N16	27	RC	850HA2A		ND	0000 2359	
50042	417.00		S	GAEVLE/SANDVIKEN	S	016E57 60N37	27	RC	850HA2A		ND	0000 2359	
50031	417.00		SUI	LUGANO	SUI	008E55 46N00	44	RC	2K14A2A		ND	0000 2359	
50818	417.00		TUR	ETIMESGUT I	TUR	032E42 39N57	138	RC	2K14A2A		ND	0000 2359	
50285	417.00		URS	BREST	BLR	023E39 52N07	148	RC	2K14A2A		ND	0000 2359	
50191	417.00		URS	TCHERNOVTSY	UKR	025E55 48N20	44	RC	2K14A2A		ND	0000 2359	
50184	417.00		URS	ZAPOROJIE	UKR	034E19 48N31	48	RC	2K14A2A		ND	0000 2359	
50169	417.00		URS	GROZNYI	URS	045E40 43N20	48	RC	2K14A2A		ND	0000 2359	
50125	417.00		URS	MURMANSK	URS	032E46 68N58	148	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50154	417.00		URS	ROSTOV NA DONU	URS	039E24 47N13	88	RC	2K14A2A		ND	0000 2359	
50293	417.00		YUG	LUCKO	YUG	016E04 45N45	24	RC	2K14A2A		ND	0000 2359	
50426	417.00		YUG	OHRID	YUG	020E49 41N20	38	RC	2K14A2A		ND	0000 2359	
50706	418.00		AFS	JAN SMUTS	AFS	028E13 26S14	98	RC	2K14A2A		ND	0000 2359	
50933	418.00		ALG	ANNABA	ALG	007E45 36N54	98	RC	2K14A2A		ND	0000 2359	
50530	418.00		ALG	DJANET	ALG	009E26 24N16	298	RC	2K14A2A		ND	0000 2359	
50968	418.00		ALG	EL GOLEA	ALG	002E52 30N35	98	RC	2K14A2A		ND	0000 2359	
51009	418.00		ALG	TLEMCEN	ALG	001W21 35N02	98	RC	2K14A2A		ND	0000 2359	
51028	418.00		ALG	TOUGGOURT	ALG	006E05 33N03	98	RC	2K14A2A		ND	0000 2359	
50494	418.00		ARS	BIR DURB	ARS	041E49 24N20	127	RC	850HA2A		ND	0000 2359	
50424	418.00		AUT	ZELTWEG	AUT	014E45 47N12	74	RC	2K14A2A		ND	0000 2359	
51016	418.00		CME	BAIKWA	CME	014E25 09N10	48	RC	2K14A2A		ND	0000 2359	
51004	418.00		CME	BETARE OYA	CME	014E07 05N36	48	RC	2K14A2A		ND	0000 2359	
51033	418.00		CME	MAMFE	CME	009E20 05N43	92	RC	2K14A2A		ND	0000 2359	
50975	418.00		CME	NGAOUNDERE	CME	013E34 07N22	48	RC	2K14A2A		ND	0000 2359	
50793	418.00		CTI	GRAND BEREBY	CTI	006W55 04N38	198	RC	2K14A2A		ND	0000 2359	
50325	418.00		CYP	NICOSIA	CYP	033E22 35N09	248	RC	2K14A2A		ND	0000 2359	
50651	418.00		DDR	KLIX	DDR	014E30 51N16	48	RC	2K14A2A		ND	0000 2359	
50252	418.00		E	BAILEN	E	003W38 38N09	100	RC	2K14A2A		ND	0000 2359	
50244	418.00		E	POLLENSA	E	003E06 39N55	72	RC	2K14A2A		ND	0000 2359	
50330	418.00		F	CALAIS OYE	F	002E03 51N00	27	RC	2K14A2A		ND	0000 2359	
50332	418.00		F	ETAIN	F	005E40 49N13	44	RC	2K14A2A		ND	0000 2359	
50371	418.00		F	VALDAHON	F	006E20 47N13	44	RC	2K14A2A		ND	0000 2359	
50340	418.00		F	VILLEFRANCHE TARARE	F	004E38 45N55	44	RC	2K14A2A		ND	0000 2359	
50095	418.00		FNL	PIIKAJARVI	FNL	022E12 61N15	18	RC	850HA2A		ND	0000 2359	
50099	418.00		FNL	SELANPAA	FNL	026E48 61N04	29	RC	850HA2A		ND	0000 2359	
50823	418.00		G	PLATFORM DP5	G	003W31 53N59	27	RC	850HA2A		ND	0000 2359	
50621	418.00		GAB	MOUILA	GAB	010E52 01S49	138	RC	2K14A2A		ND	0000 2359	
50274	418.00		GRC	ATHINAI/ELEFSIS	GRC	023E33 38N04	44	RC	850HA2A		ND	0000 2359	
50261	418.00		IRL	ABBEYSHRULE	IRL	007W39 53N35	44	RC	2K14A2A		ND	0000 2359	
50909	418.00		KEN	NAROK	KEN	035E51 01S06	359	RC	2K14A2A		ND	0000 2359	
51090	418.00		LBY	AL ZAWARA	LBY	012E10 31N10	92	RC	2K14A2A		ND	0000 2359	
50851	418.00		MRC	ESSAOUIRA	MRC	009W46 31N38	98	RC	2K14A2A		ND	0000 2359	
50577	418.00		POL	GRUDZIADZ	POL	018E45 53N28	48	RC	850HA2A		ND	0000 2359	
50746	418.00		ROU	FOCSANI	ROU	027E12 45N41	146	RC	2K14A2A		ND	0000 2359	
50040	418.00		S	BODEN	S	021E43 65N50	46	RC	850HA2A		ND	0000 2359	
50043	418.00		S	GREBBESTAD	S	011E15 58N42	92	RC	2K14A2A		ND	0000 2359	
50223	418.00		TCH	TATRY	TCH	020E05 49N05	88	RC	2K14A2A		ND	0000 2359	
50935	418.00		TGO	NIAMTOUGOU	TGO	001E03 09N42	398	RC	2K14A2A		ND	0000 2359	
50639	418.00		TUN	SFAX EL MAOU	TUN	010E41 34N43	59	RC	2K14A2A		ND	0000 2359	

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50815	418.00		TUR	BIGA	TUR	027E22 40N17	138	RC	2K14A2A		ND	0000 2359	
50389	418.00		URS	GOMEL	BLR	031E01 52N25	48	RC	2K14A2A		ND	0000 2359	
50160	418.00		URS	KURSK	URS	036E12 51N46	46	RC	2K14A2A		ND	0000 2359	
50126	418.00		URS	TALLIN	URS	024E47 59N27	48	RC	2K14A2A		ND	0000 2359	
50166	418.00		URS	VELIKIE LUKI	URS	030E12 56N22	148	RC	2K14A2A		ND	0000 2359	
50294	418.00		YUG	DRVENIK	YUG	016E09 43N27	48	RC	2K14A2A		ND	0000 2359	
50305	418.00		YUG	KRUSEVAC	YUG	021E20 43N36	88	RC	2K14A2A		ND	0000 2359	
50678	418.00		ZAI	KANIAMAIKAS	ZAI	024E03 07S42	94	RC	2K14A2A		ND	0000 2359	
50690	418.00		ZAI	KWILU-NGONGO	ZAI	014E42 05S30	94	RC	2K14A2A		ND	0500 1600	
50691	418.00		ZAI	LIKASI	ZAI	026E45 10S50	94	RC	2K14A2A		ND	0500 1600	
50702	418.00		ZAI	MONKOTO	ZAI	020E39 01S36	94	RC	2K14A2A		ND	0500 1600	
50698	418.00		ZAI	PWETO	ZAI	028E53 08S28	94	RC	2K14A2A		ND	0500 1600	
50713	419.00		AFS	LOUIS TRICHARDT	AFS	029E52 23S03	148	RC	2K14A2A		ND	0000 2359	
50500	419.00		ARS	FARZAN ISLAND	ARS	042E50 16N45	127	RC	850HA2A		ND	0000 2359	
50999	419.00		CME	KOURCUI	CME	014E07 11N05	48	RC	2K14A2A		ND	0000 2359	
51005	419.00		CME	LOLO	CME	014E55 04N17	48	RC	2K14A2A		ND	0000 2359	
50433	419.00		D	BORKUM	D	006E43 53N36	46	RC	2K14A2A		ND	0000 2359	
50434	419.00		D	WUNSTORF	D	009E27 52N28	46	RC	2K14A2A		ND	0000 2359	
50226	419.00		DNK	HERNING	DNK	009E08 56N10	48	RC	850HA2A		ND	0000 2359	
50760	419.00		F	BOURGES	F	002E23 47N04	44	RC	2K14A2A		ND	0000 2359	
50347	419.00		F	MIRECOURT	F	006E04 48N19	46	RC	2K14A2A		ND	0000 2359	
50082	419.00		FNL	HAAPAVESI	FNL	025E30 64N05	88	RC	2K14A2A		ND	0000 2359	
50104	419.00		FNL	VUOTSO	FNL	027E07 68N05	88	RC	2K14A2A		ND	0000 2359	
50414	419.00		G	WITTERING	G	000W28 52N37	55	RC	850HA2A		ND	0000 2359	
50922	419.00		GRC	LEROS	GRC	026E48 37N11	59	RC	850HA2A		ND	0000 2359	
50767	419.00		HOL	MIDDELBURG	HOL	003E44 51N31	29	RC	2K14A2A		ND	0000 2359	
50466	419.00		IRL	PLATFORM 3	IRL	011W00 53N00	44	RC	2K14A2A		ND	0000 2359	
51058	419.00		KWT	KUWAIT INTL AEROPORT	KWT	047E59 29N23	205	RC	2K14A2A		ND	0000 2359	
51093	419.00		LBY	WARE HOUSE 59A	LBY	019E56 28N18	98	RC	2K14A2A		ND	0000 2359	
50842	419.00		MRC	BOUARFA	MRC	001W45 32N30	98	RC	2K14A2A		ND	0000 2359	
50554	419.00		OMA	AYDIM	OMA	053E22 16N59	148	RC	850HA2A		ND	0000 2359	
50573	419.00		POL	CHRCYNNO	POL	020E50 52N30	44	RC	2K14A2A		ND	0000 2359	
50582	419.00		POL	MOSTKOWO	POL	015E03 53N00	74	RC	850HA2A		ND	0000 2359	
50268	419.00		POR	SINES	POR	008W48 37N06	48	RC	2K14A2A		ND	0000 2359	
50035	419.00		S	ANDERSTORP	S	013E38 57N17	27	RC	850HA2A		ND	0000 2359	
50056	419.00		S	VAESTERAAS/HAESSLOE	S	016E36 59N31	27	RC	850HA2A		ND	0000 2359	
50632	419.00		TUN	TUNIS CARTHAGE AEROP	TUN	010E19 36N49	24	RC	850HA2A		ND	0000 2359	
50571	419.00		UAE	MUBARRAZ ISL	UAE	053E13 24N17	98	RC	2K14A2A		ND	0000 2359	
50186	419.00		URS	JITOMIR	UKR	028E20 50N16	148	RC	2K14A2A		ND	0000 2359	
50183	419.00		URS	MELITOPOL	UKR	035E22 46N50	148	RC	2K14A2A		ND	0000 2359	

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50147	419.00		URS	KALININGRAD	URS	020E30 54N42	44	RC	2K14A2A		ND	0000 2359	
50127	419.00		URS	LENINAKAN	URS	043E51 40N49	148	RC	2K14A2A		ND	0000 2359	
50307	419.00		YUG	SKOPJE	YUG	021E42 41N44	29	RC	2K14A2A		ND	0000 2359	
50710	420.00		AFS	JAN SMUTS	AFS	028E13 26S14	98	RC	2K14A2A		ND	0000 2359	
50711	420.00		AFS	JAN SMUTS	AFS	028E13 26S14	98	RC	2K14A2A		ND	0000 2359	
50954	420.00		ALG	BISKRA	ALG	005E44 34N48	98	RC	2K14A2A		ND	0000 2359	
50537	420.00		ALG	TLEMCEN	ALG	001W21 35N02	98	RC	2K14A2A		ND	0000 2359	
50493	420.00		ARS	AL JOUF AIRPORT	ARS	040E05 29N47	127	RC	850HA2A		ND	0000 2359	
50495	420.00		ARS	HOFUF	ARS	049E29 25N24	127	RC	850HA2A		ND	0000 2359	
50425	420.00		AUT	INNSBRUCK	AUT	011E24 47N14	74	RC	2K14A2A		ND	0000 2359	
50481	420.00		BUL	PLOVDIV	BUL	024E41 42N04	29	RC	2K14A2A		ND	0000 2359	
50480	420.00		BUL	SILISTRA	BUL	027E16 44N07	48	RC	2K14A2A		ND	0000 2359	
50951	420.00		CME	EDEA	CME	010E08 03N47	98	RC	2K14A2A		ND	0000 2359	
51023	420.00		CME	MAKARI	CME	014E27 12N33	48	RC	2K14A2A		ND	0000 2359	
51030	420.00		CME	YOKO	CME	012E20 05N31	92	RC	2K14A2A		ND	0000 2359	
50773	420.00		CTI	BOUAKE	CTI	004W58 07N42	198	RC	2K14A2A		ND	0000 2359	
50436	420.00		D	BAYREUTH	D	011E34 49N58	46	RC	2K14A2A		ND	0000 2359	
50435	420.00		D	BUECHEL	D	007E08 50N16	92	RC	2K14A2A		ND	0000 2359	
50455	420.00		D	ST MICHAELISDONN	D	009E09 53N59	46	RC	2K14A2A		ND	0000 2359	
50026	420.00		DDR	LEIPZIG	DDR	012E07 51N26	14	RC	2K14A2A		ND	0000 2359	
50234	420.00		E	TENERIFE	CNR	016W22 28N29	44	RC	2K14A2A		ND	0000 2359	
50237	420.00		E	SEVILLA	E	005W48 37N25	72	RC	2K14A2A		ND	0000 2359	
50344	420.00		F	AUCH	F	000E37 43N38	44	RC	2K14A2A		ND	0000 2359	
50326	420.00		F	AUTUN	F	004E16 46N48	44	RC	2K14A2A		ND	0000 2359	
50327	420.00		F	BELFORT FONTAINE	F	007E01 47N39	44	RC	2K14A2A		ND	0000 2359	
50091	420.00		FNL	NUMMELA	FNL	024E18 60N20	29	RC	850HA2A		ND	0000 2359	
50102	420.00		FNL	TERVOLA	FNL	024E51 66N06	29	RC	850HA2A		ND	0000 2359	
50391	420.00		G	BELFAST HARBOUR	G	005W53 54N37	27	RC	850HA2A		ND	0000 2359	
50393	420.00		G	BLACKPOOL	G	002W59 53N46	27	RC	850HA2A		ND	0000 2359	
50416	420.00		G	OIL PLT AMOCO 49/27D	G	002E20 53N01	35	RC	850HA2A		ND	0000 2359	
50625	420.00		GAB	LASTOURVILLE	GAB	012E43 00S50	138	RC	2K14A2A		ND	0000 2359	
50270	420.00		GRC	STEFANOVIKION	GRC	022E45 39N28	48	RC	850HA2A		ND	0000 2359	
50005	420.00		HNG	BUDAPEST FERIHEGY	HNG	019E18 47N24	38	RC	2K14A2A		ND	0000 2359	
50107	420.00		I	ALBENGA	I	008E13 44N03	88	RC	2K14A2A		ND	0000 2359	
50904	420.00		KEN	MARSABIT	KEN	037E59 02N21	98	RC	2K14A2A		ND	0000 2359	
50912	420.00		LBY	ZUARA	LBY	012E07 32N56	137	RC	2K14A2A		ND	0000 2359	
50476	420.00		MRC	BEN SLIMANE	MRC	007W07 34N00	98	RC	2K14A2A		ND	0000 2359	
50556	420.00		OMA	IBRI	OMA	056E30 23N14	148	RC	850HA2A		ND	0000 2359	
50320	420.00		POR	PICO	AZR	028W27 38N33	48	RC	2K14A2A		ND	0000 2359	
50837	420.00		POR	ALVERCA	POR	009W02 38N54	64	RC	2K14A2A		ND	0000 2359	

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50751	420.00		ROU	SUCEAVA	ROU	026E22 47N42	44	RC	2K14A2A		ND	0000 2359	
50045	420.00		S	KARLSKOGA	S	014E29 59N19	27	RC	850HA2A		ND	0000 2359	
50050	420.00		S	MALMOE/STURUP	S	013E24 55N28	27	RC	850HA2A		ND	0000 2359	
50873	420.00		TCH	KUNOVICE	TCH	017E27 49N03	44	RC	2K14A2A		ND	0000 2359	
50813	420.00		TUR	ESKISEHIR	TUR	030E45 39N47	138	RC	2K14A2A		ND	0000 2359	
50201	420.00		URS	SEMENOVKA	UKR	032E33 52N12	46	RC	2K14A2A		ND	0000 2359	
50128	420.00		URS	BAKU	URS	049E45 40N20	148	RC	2K14A2A		ND	0000 2359	
50177	420.00		URS	GROZNYI	URS	045E40 43N20	44	RC	2K14A2A		ND	0000 2359	
50131	420.00		URS	KRASNODAR	URS	038E39 45N02	148	RC	2K14A2A		ND	0000 2359	
50129	420.00		URS	VILNIUS	URS	025E18 54N40	148	RC	2K14A2A		ND	0000 2359	
50130	420.00		URS	YEREVAN	URS	044E36 40N14	48	RC	2K14A2A		ND	0000 2359	
50296	420.00		YUG	KARLOVCI	YUG	019E57 45N12	48	RC	2K14A2A		ND	0000 2359	
50798	420.00		YUG	PRISTINA	YUG	021E02 42N36	24	RC	2K14A2A		ND	0000 2359	
50799	420.00		YUG	PULA	YUG	013E52 44N54	24	RC	2K14A2A		ND	0000 2359	
50701	420.00		ZAI	MOBA	ZAI	029E44 07S06	94	RC	2K14A2A		ND	0500 1600	
50491	421.00		ARS	HALAIFA	ARS	039E16 26N26	127	RC	850HA2A		ND	0000 2359	
51027	421.00		CME	BOURRAH	CME	013E28 10N11	48	RC	2K14A2A		ND	0000 2359	
50437	421.00		D	OSNABR ATTERHEIDE	D	007E58 52N17	46	RC	2K14A2A		ND	0000 2359	
50650	421.00		DDR	KOENIGSBERG	DDR	012E27 53N05	79	RC	2K14A2A		ND	0000 2359	
50246	421.00		E	MADRID/GETAFE	E	003W51 40N12	55	RC	2K14A2A		ND	0000 2359	
50342	421.00		F	VALENCE	F	004E58 44N55	92	RC	2K14A2A		ND	0000 2359	
50079	421.00		FNL	ALAVUS	FNL	023E35 62N33	88	RC	2K14A2A		ND	0000 2359	
50101	421.00		FNL	SUOMUSSALMI	FNL	028E43 64N49	88	RC	2K14A2A		ND	0000 2359	
50105	421.00		FNL	WREDEBY	FNL	026E45 60N40	29	RC	850HA2A		ND	0000 2359	
50400	421.00		G	HENTON	G	000W47 51N46	55	RC	850HA2A		ND	0000 2359	
50018	421.00		HNG	NAGYKORPAD	HNG	017E28 46N25	48	RC	850HA2A		ND	0000 2359	
50768	421.00		HOL	HOEVEN	HOL	004E33 51N33	29	RC	2K14A2A		ND	0000 2359	
50112	421.00		I	ROMA FIUMICINO	I	012E21 41N50	44	RC	2K14A2A		ND	0000 2359	
50258	421.00		IRL	GALWAY	IRL	009W04 53N15	44	RC	2K14A2A		ND	0000 2359	
50908	421.00		KEN	MOMBASA	KEN	039E36 04S02	359	RC	2K14A2A		ND	0000 2359	
50279	421.00		MRC	DAKHLA	MRC	015W56 23N42	98	RC	2K14A2A		ND	0000 2359	
50280	421.00		MRC	LAAYOUNE	MRC	013W13 27N10	98	RC	2K14A2A		ND	0000 2359	
50590	421.00		POL	SLUPSK	POL	017E05 54N28	79	RC	2K14A2A		ND	0000 2359	
50269	421.00		POR	VISEU	POR	007W53 40N43	48	RC	2K14A2A		ND	0000 2359	
50041	421.00		S	BORLAENGE	S	015E25 60N28	27	RC	850HA2A		ND	0000 2359	
50044	421.00		S	HALMSTAD	S	012E49 56N40	27	RC	850HA2A		ND	0000 2359	
50047	421.00		S	LINKOEPING/SAAB	S	015E44 58N24	27	RC	850HA2A		ND	0000 2359	
50053	421.00		S	TRUNDOEN	S	021E47 65N23	27	RC	850HA2A		ND	0000 2359	
50212	421.00		TCH	HOSIN	TCH	014E29 49N02	44	RC	2K14A2A		ND	0000 2359	
50672	421.00		TUR	ERHAC	TUR	038E08 38N30	138	RC	2K14A2A		ND	0000 2359	

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50187	421.00		URS	LVOV	UKR	024E00 49N50	148	RC	2K14A2A		ND	0000 2359	
50188	421.00		URS	POLTAVA	UKR	034E36 49N36	148	RC	2K14A2A		ND	0000 2359	
50804	421.00		YUG	SALI	YUG	015E10 43N56	59	RC	2K14A2A		ND	0000 2359	
50800	421.00		YUG	VRSAC	YUG	021E35 45N15	24	RC	2K14A2A		ND	0000 2359	
50931	422.00		ALG	BEJAIA	ALG	005E02 36N43	98	RC	2K14A2A		ND	0000 2359	
50499	422.00		ARS	KAMIS MUSHAYT	ARS	042E25 18N18	127	RC	850HA2A		ND	0000 2359	
50496	422.00		ARS	MAGALA	ARS	047E16 26N52	127	RC	850HA2A		ND	0000 2359	
51042	422.00		BEN	PARAKOU AEROPORT	BEN	002E38 09N20	48	RC	2K14A2A		ND	0000 2359	
50479	422.00		BUL	SLIVAN	BUL	026E12 42N35	48	RC	2K14A2A		ND	0000 2359	
50967	422.00		CME	AMBAM	CME	011E16 02N22	98	RC	2K14A2A		ND	0000 2359	
50985	422.00		CME	BERTOUA	CME	013E44 04N32	48	RC	2K14A2A		ND	0000 2359	
51032	422.00		CME	NKAMBE	CME	010E40 06N12	98	RC	2K14A2A		ND	0000 2359	
50722	422.00		CPV	S. ANTAO	CPV	025W06 17N22	92	RC	2K14A2A		ND	0000 2359	
50784	422.00		CTI	ODIENNE	CTI	007W34 09N30	198	RC	2K14A2A		ND	0000 2359	
50438	422.00		D	TANGO	D	009E16 48N37	92	RC	2K14A2A		ND	0000 2359	
50463	422.00		ETH	ASSAB	ETH	042E45 13N01	198	RC	2K14A2A		ND	0000 2359	
50331	422.00		F	COETQUIDAN	F	002W08 47N58	44	RC	2K14A2A		ND	0000 2359	
50381	422.00		F	CREIL	F	002E32 49N15	138	RC	2K14A2A		ND	0000 2359	
50833	422.00		G	KNIGHTON	G	003W14 52N31	55	RC	850HA2A		ND	0000 2359	
51063	422.00		GHA	KUMASI	GHA	001W37 06N43	248	RC	2K14A2A		ND	0000 2359	
50926	422.00		GRC	ASTIPALEA	GRC	026E21 36N32	59	RC	850HA2A		ND	0000 2359	
50275	422.00		GRC	ATHINAI	GRC	023E46 37N49	44	RC	850HA2A		ND	0000 2359	
50006	422.00		HNG	SZOLNOK	HNG	020E11 47N08	48	RC	850HA2A		ND	0000 2359	
50118	422.00		HOL	OILRIG	HOL	004E20 53N25	48	RC	2K14A2A		ND	0000 2359	
51092	422.00		LBY	SABHA A2A	LBY	018E07 28N13	148	RC	2K14A2A		ND	0000 2359	
50546	422.00		MDG	MANDABE	MDG	044E57 21S02	88	RC	2K14A2A		ND	0300 1500	
50550	422.00		MDG	TAMBOHORANO	MDG	043E58 17S29	105	RC	2K14A2A		ND	0300 1500	
50841	422.00		MRC	HOCEIMA	MRC	003W58 35N10	98	RC	2K14A2A		ND	0000 2359	
50856	422.00		MRC	TATA	MRC	007W50 29N30	298	RC	2K14A2A		ND	0000 2359	
50726	422.00		ROU	BACAU	ROU	026E54 46N31	44	RC	2K14A2A		ND	0000 2359	
50759	422.00		ROU	TULCEA	ROU	028E43 45N04	27	RC	2K14A2A		ND	0000 2359	
50033	422.00		SUI	SION	SUI	007E20 46N13	44	RC	2K14A2A		ND	0000 2359	
50213	422.00		TCH	JAROMER	TCH	015E56 50N19	88	RC	2K14A2A		ND	0000 2359	
50643	422.00		TUN	PLATE FORME ASTHART	TUN	011E17 36N17	168	RC	850HA2A		ND	0000 2359	
50808	422.00		TUR	CANAKKALE	TUR	026E25 40N10	48	RC	2K14A2A		ND	0000 2359	
50132	422.00		URS	ARKHANGHELSK	URS	040E12 64N33	148	RC	2K14A2A		ND	0000 2359	
50150	422.00		URS	KUTAISI	URS	042E42 42N16	148	RC	2K14A2A		ND	0000 2359	
50133	422.00		URS	MONTCHEGORSK	URS	032E57 67N59	148	RC	2K14A2A		ND	0000 2359	
50173	422.00		URS	PSKOV	URS	028E00 57N43	148	RC	2K14A2A		ND	0000 2359	
50317	422.00		YUG	OSIJEK	YUG	018E59 45N25	48	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50316	422.00		YUG	SLOVENJGRADEC	YUG	015E05 46N30	24	RC	2K14A2A		ND	0000 2359	
51078	423.00		AGL	DONDO	AGL	014E28 09S41	90	RC	2K14A2A		ND	0000 2359	
50939	423.00		ALG	ADRAR	ALG	000W14 27N46	98	RC	2K14A2A		ND	0000 2359	
50943	423.00		ALG	BECHAR	ALG	002W14 31N38	98	RC	2K14A2A		ND	0000 2359	
50535	423.00		ALG	HASSI MESSAOUD	ALG	006E08 31N39	298	RC	2K14A2A		ND	0000 2359	
51022	423.00		ALG	MASCARA	ALG	000E11 35N13	98	RC	2K14A2A		ND	0000 2359	
50477	423.00		BUL	BARNA	BUL	027E52 43N13	48	RC	2K14A2A		ND	0000 2359	
50459	423.00		D	BRILON	D	008E35 51N25	46	RC	2K14A2A		ND	0000 2359	
50439	423.00		D	EMDEN	D	007E14 53N24	46	RC	2K14A2A		ND	0000 2359	
50647	423.00		DDR	COTTBUS	DDR	013E32 52N22	46	RC	2K14A2A		ND	0000 2359	
50654	423.00		DDR	ZWICKAU	DDR	012E30 50N43	38	RC	2K14A2A		ND	0000 2359	
50230	423.00		DNK	ODENSE	DNK	010E13 55N26	48	RC	850HA2A		ND	0000 2359	
50242	423.00		E	SALAMANCA	E	005W38 40N56	72	RC	2K14A2A		ND	0000 2359	
50239	423.00		E	SEVILLA	E	006W19 36N39	72	RC	2K14A2A		ND	0000 2359	
50348	423.00		F	BOURG	F	005E18 46N12	44	RC	2K14A2A		ND	0000 2359	
50337	423.00		F	S MANDRIER	F	005E57 43N04	92	RC	2K14A2A		ND	0000 2359	
50358	423.00		F	TOULOUSE MERVILLA	F	001E29 43N30	44	RC	850HA2A		ND	0000 2359	
50080	423.00		FNL	EURA	FNL	022E12 61N07	88	RC	2K14A2A		ND	0000 2359	
50106	423.00		FNL	YLIVIESKA	FNL	024E44 64N03	88	RC	2K14A2A		ND	0000 2359	
50834	423.00		G	COTTESMORE	G	000W59 52N44	35	RC	850HA2A		ND	0000 2359	
50401	423.00		G	HETHEL	G	001E11 52N34	18	RC	850HA2A		ND	0000 2359	
50412	423.00		G	WALNEY ISLAND	G	003W16 54N08	27	RC	850HA2A		ND	0000 2359	
50109	423.00		I	FORLI	I	011E55 44N15	44	RC	2K14A2A		ND	0000 2359	
50903	423.00		KEN	NAIROBI	KEN	036E54 01S20	98	RC	2K14A2A		ND	0000 2359	
51085	423.00		LBY	GHAT	LBY	010E01 25N11	248	RC	2K14A2A		ND	0000 2359	
50576	423.00		POL	ELBLAG	POL	019E25 54N08	79	RC	2K14A2A		ND	0000 2359	
50579	423.00		POL	KRAKOW	POL	020E12 50N05	74	RC	2K14A2A		ND	0000 2359	
50057	423.00		POR	TANCOS	POR	008W16 39N29	64	RC	2K14A2A		ND	0000 2359	
50733	423.00		ROU	BUCURESTI/OTOPENI	ROU	025E59 44N33	44	RC	2K14A2A		ND	0000 2359	
50032	423.00		SUI	SAMEDAN	SUI	009E53 46N32	44	RC	2K14A2A		ND	0000 2359	
50286	423.00		URS	VITEBSK	BLR	030E11 55N13	48	RC	2K14A2A		ND	0000 2359	
50189	423.00		URS	PERVOMAISK	UKR	030E13 50N27	148	RC	2K14A2A		ND	0000 2359	
50202	423.00		URS	TCHISTIAKOVO	UKR	038E16 48N03	148	RC	2K14A2A		ND	0000 2359	
50802	423.00		YUG	ZITORADJE	YUG	021E44 43N11	48	RC	2K14A2A		ND	0000 2359	
51077	424.00		AGL	GAGO COUTINHO	AGL	021E26 14S06	01	RC	2K14A2A		ND	0000 2359	
51075	424.00		AGL	JAMBA	AGL	016E02 14S42	90	RC	2K14A2A		ND	0000 2359	
50618	424.00		BEL	BRUXELLES-GRINBERGEN	BEL	004E23 50N57	44	RC	2K14A2A		ND	0000 2359	
51048	424.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	98	RC	2K14A2A		ND	0000 2359	
51047	424.00		BEN	NATITINGOU AEROPORT	BEN	001E35 09N47	98	RC	2K14A2A		ND	0000 2359	
51035	424.00		CME	ABONG MBANG	CME	013E12 04N00	48	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50774	424.00		CTI	BOUAKE	CTI	004W58 07N42	198	RC	2K14A2A		ND	0000 2359	
50860	424.00		D	BONAMES	D	008E40 50N11	27	RC	2K14A2A		ND	0000 2359	
50243	424.00		E	REUS	E	001E09 41N09	92	RC	2K14A2A		ND	0000 2359	
50349	424.00		F	PHALSBOURG	F	007E12 48N46	44	RC	2K14A2A		ND	0000 2359	
50336	424.00		F	S FLOUR	F	003E00 45N05	44	RC	2K14A2A		ND	0000 2359	
50094	424.00		FNL	PELLO	FNL	023E58 66N46	88	RC	2K14A2A		ND	0000 2359	
50096	424.00		FNL	RANTASALMI	FNL	028E22 62N04	88	RC	2K14A2A		ND	0000 2359	
50276	424.00		GRC	AGRINION	GRC	021E21 38N36	148	RC	850HA2A		ND	0000 2359	
50921	424.00		HNG	GYOR	HNG	017E44 47N40	98	RC	2K14A2A		ND	0000 2359	
50113	424.00		I	RONCHI LEGIONARI	I	013E22 45N50	44	RC	2K14A2A		ND	0000 2359	
50467	424.00		IRL	PLATFORM 4	IRL	011W00 53N00	44	RC	2K14A2A		ND	0000 2359	
51083	424.00		LBY	AL SARIR	LBY	022E30 27N39	298	RC	2K14A2A		ND	0000 2359	
51088	424.00		LBY	TRIPOLI	LBY	013E07 32N00	98	RC	2K14A2A		ND	0000 2359	
50854	424.00		MRC	KHOURIBGA	MRC	006W52 32N45	98	RC	2K14A2A		ND	0000 2359	
50557	424.00		OMA	SALIYA	OMA	053E25 17N53	148	RC	850HA2A		ND	0000 2359	
50322	424.00		POR	CORVO	AZR	031W07 39N40	48	RC	2K14A2A		ND	0000 2359	
50321	424.00		POR	S JORGE	AZR	028W10 38N40	48	RC	2K14A2A		ND	0000 2359	
50029	424.00		SUI	LES EPLATURES	SUI	006E48 47N05	44	RC	2K14A2A		ND	0000 2359	
50885	424.00		TCH	PRAHA/NORTH	TCH	014E18 50N07	27	RC	2K14A2A		ND	0000 2359	
50190	424.00		URS	ODESSA	UKR	030E44 46N28	148	RC	2K14A2A		ND	0000 2359	
50167	424.00		URS	LENINAKAN	URS	043E51 40N49	48	RC	2K14A2A		ND	0000 2359	
50134	424.00		URS	TUAPSE	URS	039E05 44N06	148	RC	2K14A2A		ND	0000 2359	
50315	424.00		YUG	VRLIKA	YUG	016E26 43N56	48	RC	2K14A2A		ND	0000 2359	
50314	424.00		YUG	ZAGREB	YUG	015E51 45N36	24	RC	2K14A2A		ND	0000 2359	
50679	424.00		ZAI	DILOLO	ZAI	022E21 10S43	94		2K14A2A		ND	0500 1600	
50703	424.00		ZAI	YUKI	ZAI	019E25 04S50	94	RC	2K14A2A		ND	0500 1600	
50712	425.00		AFS	LOUIS TRICHARDT	AFS	029E52 23S03	148	RC	2K14A2A		ND	0000 2359	
50716	425.00		AFS	VEREENIGING	AFS	027E57 26S32	48	RC	2K14A2A		ND	0000 2359	
50427	425.00		ALB	RINAS	ALB	019E43 41N25	79	RC	2K14A2A		ND	0000 2359	
50940	425.00		ALG	BATNA	ALG	006E09 35N32	98	RC	2K14A2A		ND	0000 2359	
50485	425.00		BUL	BOURGAS	BUL	027E30 42N33	29	RC	2K14A2A		ND	0000 2359	
50488	425.00		BUL	PLEVEN	BUL	024E35 43N24	29	RC	2K14A2A		ND	0000 2359	
50947	425.00		CME	BAGANTE	CME	010E33 05N07	48	RC	2K14A2A		ND	0000 2359	
51015	425.00		CME	MADINGRIN	CME	014E55 08N25	179	RC	2K14A2A		ND	0000 2359	
50441	425.00		D	IGELSBACH	D	010E52 49N09	27	RC	2K14A2A		ND	0000 2359	
50440	425.00		D	MUENSTER TELGTE	D	007E46 51N57	46	RC	2K14A2A		ND	0000 2359	
50021	425.00		DDR	LEIPZIG	DDR	012E16 51N25	18	RC	2K14A2A		ND	0000 2359	
50022	425.00		DDR	LEIPZIG	DDR	012E12 51N25	18	RC	2K14A2A		ND	0000 2359	
50235	425.00		E	TENERIFE NORTE	CNR	016W15 28N27	44	RC	2K14A2A		ND	0000 2359	
50369	425.00		F	SUIPPES	F	004E38 49N13	44	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50092	425.00		FNL	ORITKARI	FNL	025E28 64N59	29	RC	850HA2A		ND	0000 2359	
50836	425.00		G	FAIR OAKS	G	000W33 51N21	18	RC	850HA2A		ND	0000 2359	
50415	425.00		G	OIL PLT AMOCO 49/27A	G	002E19 53N02	35	RC	850HA2A		ND	0000 2359	
51062	425.00		GHA	ADA	GHA	000E32 05N52	24	RC	2K14A2A		ND	0000 2359	
50765	425.00		HOL	HILVERSUM	HOL	005E09 52N12	29	RC	2K14A2A		ND	0000 2359	
50111	425.00		I	PIACENZA	I	009E43 44N55	88	RC	2K14A2A		ND	0000 2359	
50262	425.00		IRL	KNOCK	IRL	008W27 53N57	44	RC	2K14A2A		ND	0000 2359	
50907	425.00		KEN	LODWAR	KEN	035E37 03N07	359	RC	2K14A2A		ND	0000 2359	
51089	425.00		LBY	SABNA	LBY	014E28 27N01	298	RC	2K14A2A		ND	0000 2359	
50281	425.00		MRC	TAN TAN	MRC	011W07 28N35	103	RC	2K14A2A		ND	0000 2359	
50575	425.00		POL	CZERWIENSK	POL	015E25 52N02	59	RC	850HA2A		ND	0000 2359	
50587	425.00		POL	RADOM	POL	021E06 51N30	53	RC	850HA2A		ND	0000 2359	
50263	425.00		POR	BRAGA	POR	008W27 41N35	48	RC	2K14A2A		ND	0000 2359	
50265	425.00		POR	EVORA	POR	007W53 38N31	48	RC	2K14A2A		ND	0000 2359	
50051	425.00		S	ORUST	S	011E34 58N13	55	RC	850HA2A		ND	0000 2359	
50054	425.00		S	UMEAA	S	020E11 63N51	27	RC	850HA2A		ND	0000 2359	
50216	425.00		TCH	KOSICE	TCH	021E13 48N36	88	RC	2K14A2A		ND	0000 2359	
50630	425.00		TUN	GABES AEROPHARE	TUN	010E06 33N53	59	RC	2K14A2A		ND	0000 2359	
50814	425.00		TUR	ANKARA/CUBUK	TUR	033E06 40N14	138	RC	2K14A2A		ND	0000 2359	
50182	425.00		URS	PII	UKR	031E08 49N52	148	RC	2K14A2A		ND	0000 2359	
50181	425.00		URS	SIMFEROPOL	UKR	034E06 44N56	48	RC	2K14A2A		ND	0000 2359	
50135	425.00		URS	ASTRAKHAN	URS	048E00 46N22	148	RC	2K14A2A		ND	0000 2359	
50142	425.00		URS	KAUNAS	URS	024E00 54N55	148	RC	2K14A2A		ND	0000 2359	
50137	425.00		URS	TALLIN	URS	024E47 59N27	148	RC	2K14A2A		ND	0000 2359	
50136	425.00		URS	VELIKIE LUKI	URS	030E12 56N22	48	RC	2K14A2A		ND	0000 2359	
50311	425.00		YUG	CACAK	YUG	020E10 43N53	48	RC	2K14A2A		ND	0000 2359	
50683	425.00		ZAI	BENI	ZAI	029E28 00N35	94	RC	2K14A2A		ND	0500 1600	
50660	425.00		ZAI	LUENA	ZAI	025E45 09S28	94	RC	2K14A2A		ND	0500 1600	
50971	426.00		ALG	HASSI MESSAOUD	ALG	006E08 31N39	98	RC	2K14A2A		ND	0000 2359	
50422	426.00		AUT	GLEICHENBERG	AUT	015E48 46N53	74	RC	2K14A2A		ND	0000 2359	
51044	426.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	98	RC	2K14A2A		ND	0000 2359	
51045	426.00		BEN	NATITINGOU AEROPORT	BEN	001E35 09N47	98	RC	2K14A2A		ND	0000 2359	
51014	426.00		CME	YOKADOUMA	CME	015E11 03N25	148	RC	2K14A2A		ND	0000 2359	
50460	426.00		D	AACHEN-MERZBRUCK	D	006E11 50N50	46	RC	2K14A2A		ND	0000 2359	
50255	426.00		E	TORREJON	E	003W22 40N24	148	RC	2K14A2A		ND	0000 2359	
50669	426.00		EGY	EL DABAA	EGY	028E27 31N02	368	RC	2K14A2A		ND	0000 2359	
50761	426.00		F	CASTETS	F	001W09 43N55	44	RC	2K14A2A		ND	0000 2359	
50366	426.00		F	GRENOBLE	F	005E52 45N13	44	RC	2K14A2A		ND	0000 2359	
50088	426.00		FNL	KUHMO	FNL	029E27 64N07	88	RC	2K14A2A		ND	0000 2359	
50392	426.00		G	BEMBRIDGE	G	001W07 50N41	27	RC	850HA2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50404	426.00		G	LONGSIDE	G	001W52 57N31	35	RC	850HA2A			ND 0000 2359	
50405	426.00		G	MILDENHALL	G	000E29 52N22	35	RC	850HA2A			ND 0000 2359	
50408	426.00		G	PRESTWICK	G	004W41 55N33	27	RC	850HA2A			ND 0000 2359	
50420	426.00		G	PUMP STATION 1	G	001E37 55N54	35	RC	850HA2A			ND 0000 2359	
50410	426.00		G	SHOBDON	G	002W53 52N14	18	RC	850HA2A			ND 0000 2359	
51067	426.00		GHA	ACCRA	GHA	000W11 05N34	24	RC	2K14A2A			ND 0000 2359	
50114	426.00		I	SORRENTO	I	014E20 40N35	179	RC	2K14A2A			ND 0000 2359	
50468	426.00		IRL	PLATFORM 5	IRL	011W00 53N00	44	RC	2K14A2A			ND 0000 2359	
50548	426.00		MDG	AMBATOMAINTY	MDG	045E40 17S42	88	RC	2K14A2A			ND 0300 1500	
50845	426.00		MRC	SAFI	MRC	009W14 32N18	98	RC	2K14A2A			ND 0000 2359	
50284	426.00		MRC	TOUAHAR	MRC	004W10 34N12	98	RC	2K14A2A			ND 0000 2359	
50555	426.00		OMA	ADAM	OMA	057E33 22N22	148	RC	850HA2A			ND 0000 2359	
50589	426.00		POL	RYBNIK	POL	018E38 50N04	44	RC	2K14A2A			ND 0000 2359	
50264	426.00		POR	COIMBRA	POR	008W28 40N09	48	RC	2K14A2A			ND 0000 2359	
50266	426.00		POR	PORTIMAO	POR	008W35 37N09	48	RC	2K14A2A			ND 0000 2359	
50724	426.00		ROU	BACAU	ROU	026E54 46N31	224	RC	2K14A2A			ND 0000 2359	
50039	426.00		S	BERGA	S	018E07 59N04	46	RC	850HA2A			ND 0000 2359	
50215	426.00		TCH	KOLIN	TCH	015E11 50N01	44	RC	2K14A2A			ND 0000 2359	
50874	426.00		TCH	LUCENEC	TCH	019E49 45N18	44	RC	2K14A2A			ND 0000 2359	
50633	426.00		TUN	BIZERTE	TUN	009E48 37N15	48	RC	850HA2A			ND 0000 2359	
50192	426.00		URS	ZAPOROJIE	UKR	034E19 48N31	148	RC	2K14A2A			ND 0000 2359	
50138	426.00		URS	GELENDJIK	URS	038E03 44N33	148	RC	2K14A2A			ND 0000 2359	
50139	426.00		URS	KUTAISI	URS	042E42 42N16	148	RC	2K14A2A			ND 0000 2359	
50140	426.00		URS	NOVGOROD	URS	031E18 58N32	148	RC	2K14A2A			ND 0000 2359	
50170	426.00		URS	NUKHA	URS	047E10 41N12	44	RC	2K14A2A			ND 0000 2359	
50178	426.00		URS	PETROZAVODSK	URS	034E04 61N47	48	RC	2K14A2A			ND 0000 2359	
50442	426.50		D	MIKE	D	011E36 48N34	46	RC	2K14A2A			ND 0000 2359	
51074	427.00		AGL	LUANDA	AGL	013E18 08S47	461	RC	2K14A2A			ND 0000 2359	
50533	427.00		ALG	BOU SAADA	ALG	004E12 35N20	98	RC	2K14A2A			ND 0000 2359	
51010	427.00		ALG	TEBESSA	ALG	008E03 35N27	98	RC	2K14A2A			ND 0000 2359	
50527	427.00		ALG	TINDOUF	ALG	008W10 27N42	198	RC	2K14A2A			ND 0000 2359	
50486	427.00		BUL	BOURGAS	BUL	027E30 42N33	29	RC	2K14A2A			ND 0000 2359	
51012	427.00		CME	EBOLOWA	CME	011E11 02N51	179	RC	2K14A2A			ND 0000 2359	
50444	427.00		D	ALLENDORF-EDER	D	008E41 51N02	46	RC	2K14A2A			ND 0000 2359	
50443	427.00		D	BRAUNSCHWEIG	D	010E36 52N19	37	RC	2K14A2A			ND 0000 2359	
50649	427.00		DDR	WORMLAGE	DDR	013E54 51N37	77	RC	2K14A2A			ND 0000 2359	
50228	427.00		DNK	KASTRUP	DNK	012E41 55N36	48	RC	850HA2A			ND 0000 2359	
50249	427.00		E	FUERTEVENTURA	CNR	013W52 28N27	109	RC	2K14A2A			ND 0000 2359	
50354	427.00		F	AUBENAS RUOMS	F	004E22 44N27	44	RC	2K14A2A			ND 0000 2359	
50350	427.00		F	BROYES LES PESMES	F	005E32 47N20	92	RC	2K14A2A			ND 0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50341	427.00		F	FLERS	F	000W36 48N45	44	RC	2K14A2A		ND	0000 2359	
50362	427.00		F	ROYAN	F	000W58 45N38	44	RC	2K14A2A		ND	0000 2359	
50351	427.00		F	S SIMON	F	003E12 49N45	92	RC	2K14A2A		ND	0000 2359	
50343	427.00		F	TARBES RICAUD	F	000E17 43N09	44	RC	2K14A2A		ND	0000 2359	
50087	427.00		FNL	KEMIJARVI	FNL	027E10 66N43	88	RC	2K14A2A		ND	0000 2359	
50396	427.00		G	BRAWDY	G	005W07 51N53	46	RC	850HA2A		ND	0000 2359	
50824	427.00		G	PLATFORM DP4	G	003W34 53N53	35	RC	850HA2A		ND	0000 2359	
50272	427.00		GRC	KERKIRA	GRC	019E55 39N35	44	RC	850HA2A		ND	0000 2359	
50770	427.00		HOL	TEXEL	HOL	004E50 53N07	29	RC	2K14A2A		ND	0000 2359	
50108	427.00		I	FERRARA	I	011E37 44N49	88	RC	2K14A2A		ND	0000 2359	
50260	427.00		IRL	DUNDALK	IRL	006W25 54N00	44	RC	2K14A2A		ND	0000 2359	
50542	427.00		MDG	MANANARA	MDG	049E46 16S10	88	RC	2K14A2A		ND	0300 1500	
50552	427.00		MDG	MANJA	MDG	044E19 21S25	88	RC	2K14A2A		ND	0300 1500	
50574	427.00		POL	CIECHANOW	POL	020E38 52N51	74	RC	2K14A2A		ND	0000 2359	
50583	427.00		POL	NOWY SACZ	POL	020E38 49N45	74	RC	2K14A2A		ND	0000 2359	
50049	427.00		S	LUNDE	S	017E50 62N53	46	RC	850HA2A		ND	0000 2359	
50287	427.00		URS	MOGILEV	BLR	030E17 53N55	148	RC	2K14A2A		ND	0000 2359	
50141	427.00		URS	EISK	URS	038E16 46N40	148	RC	2K14A2A		ND	0000 2359	
50295	427.00		YUG	SKOPJE	YUG	021E30 41N55	24	RC	2K14A2A		ND	0000 2359	
50686	427.00		ZAI	ILEBO	ZAI	020E36 04S19	94	RC	2K14A2A		ND	0500 1600	
50949	428.00		ALG	ORAN ES SENIA	ALG	000W35 35N39	98	RC	2K14A2A		ND	0000 2359	
50953	428.00		CME	BANYO	CME	011E50 06N44	98	RC	2K14A2A		ND	0000 2359	
50782	428.00		CTI	MAN	CTI	007W32 07N23	198	RC	2K14A2A		ND	0000 2359	
51097	428.00		CYP	NICOSIA	CYP	033E33 34N49	29	RC	2K14A2A		ND	0000 2359	
50447	428.00		D	SEMBACH	D	008E03 49N34	46	RC	2K14A2A		ND	0000 2359	
50446	428.00		D	STEUTZEN	D	012E03 49N40	46	RC	2K14A2A		ND	0000 2359	
50445	428.00		D	WITTMUNDHAVEN	D	007E48 53N34	92	RC	2K14A2A		ND	0000 2359	
50238	428.00		E	SEVILLA/MORON	E	005W34 37N18	72	RC	2K14A2A		ND	0000 2359	
50236	428.00		E	SORIA	E	002W28 41N49	44	RC	2K14A2A		ND	0000 2359	
50355	428.00		F	CHATEAUROUX	F	001E48 46N56	92	RC	850HA2A		ND	0000 2359	
50333	428.00		F	FREJUS	F	006E44 43N25	46	RC	2K14A2A		ND	0000 2359	
50335	428.00		F	LANVEOC	F	004W24 48N16	92	RC	2K14A2A		ND	0000 2359	
50085	428.00		FNL	IISALMI	FNL	027E08 63N38	88	RC	2K14A2A		ND	0000 2359	
50089	428.00		FNL	KUMLINGE	FNL	020E48 60N15	88	RC	2K14A2A		ND	0000 2359	
50820	428.00		G	PLATFORM MESA	G	003W05 58N07	35	RC	850HA2A		ND	0000 2359	
50409	428.00		G	SAINT ABBS	G	002W12 55N56	74	RC	850HA2A		ND	0000 2359	
50413	428.00		G	WESTCOTT	G	000W58 51N51	55	RC	850HA2A		ND	0000 2359	
51068	428.00		GHA	ACCRA	GHA	000W11 05N34	24	RC	2K14A2A		ND	0000 2359	
50007	428.00		HNG	PECS	HNG	018E15 45N58	98	RC	850HA2A		ND	0600 2000	
50763	428.00		HOL	BUDEL	HOL	005E30 51N15	29	RC	2K14A2A		ND	0000 2359	

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50257	428.00		IRL	CORK	IRL	008W30 51N50	44	RC	2K14A2A		ND	0000 2359	
50905	428.00		KEN	MANDERA	KEN	045E03 01N50	359	RC	2K14A2A		ND	0000 2359	
50902	428.00		KEN	NAIROBI	KEN	036E52 01S16	359	RC	2K14A2A		ND	0000 2359	
50545	428.00		MDG	ANTSALOVA	MDG	044E37 18S42	88	RC	2K14A2A		ND	0300 1500	
50661	428.00		MLT	LUCA	MLT	014E10 35N05	298	RC	100HN0N		ND	0000 2359	
50849	428.00		MRC	AZILAL	MRC	006W35 31N50	98	RC	2K14A2A		ND	0000 2359	
50750	428.00		ROU	SATU MARE	ROU	022E53 47N41	27	RC	2K14A2A		ND	0000 2359	
50052	428.00		S	SAATENAES	S	012E43 58N23	46	RC	850HA2A		ND	0000 2359	
50891	428.00		TCH	SLIAC	TCH	019E08 48N37	44	RC	2K14A2A		ND	0000 2359	
50932	428.00		TGO	SANSANNE MANGO	TGO	029E00 10N22	88	RC	2K14A2A		ND	0020 2359	
50193	428.00		URS	IVANOFRANKOVSK	UKR	024E42 48N56	48	RC	2K14A2A		ND	0000 2359	
50164	428.00		URS	MAKHATCHKALA	URS	047E31 42N59	148	RC	2K14A2A		ND	0000 2359	
50143	428.00		URS	MURMANSK	URS	032E46 68N58	48	RC	2K14A2A		ND	0000 2359	
50161	428.00		URS	VYBORG	URS	028E46 60N42	44	RC	2K14A2A		ND	0000 2359	
50302	428.00		YUG	DOMANOVICI	YUG	017E51 43N08	14	RC	2K14A2A		ND	0000 2359	
50521	429.00		ALG	EL GOLEA	ALG	002E52 30N35	298	RC	2K14A2A		ND	0000 2359	
50519	429.00		ALG	IN GUEZZAN	ALG	005E46 19N34	298	RC	2K14A2A		ND	0000 2359	
50503	429.00		ALG	SETIF	ALG	005E25 36N36	98	RC	2K14A2A		ND	0000 2359	
51050	429.00		BEN	SAVE AEROPORT	BEN	002E31 08N47	98	RC	2K14A2A		ND	0000 2359	
51017	429.00		CME	WAZA	CME	014E32 11N21	48	RC	2K14A2A		ND	0000 2359	
50456	429.00		D	GIEBELSTADT	D	009E59 49N39	27	RC	2K14A2A		ND	0000 2359	
50448	429.00		D	OBERPFAFFENHOFEN	D	011E17 48N05	46	RC	2K14A2A		ND	0000 2359	
50025	429.00		DDR	REINSDORF	DDR	012E36 51N55	24	RC	2K14A2A		ND	0000 2359	
50229	429.00		DNK	KIRSTINESMINDE	DNK	010E10 56N12	48	RC	850HA2A		ND	0000 2359	
50253	429.00		E	ALICANTE	E	000W33 38N18	94	RC	2K14A2A		ND	0000 2359	
50251	429.00		E	PLATFORM CASABLANCA	E	001E21 40N43	44	RC	2K14A2A		ND	0000 2359	
50328	429.00		F	BIVILLE	F	001W49 49N37	44	RC	2K14A2A		ND	0000 2359	
50359	429.00		F	VILLENEUVE SUR LOT	F	000E46 44N24	44	RC	2K14A2A		ND	0000 2359	
50077	429.00		FNL	AAVAHELUKKA	FNL	023E59 67N36	88	RC	2K14A2A		ND	0000 2359	
50090	429.00		FNL	MENKIJARVI	FNL	023E31 62N57	48	RC	850HA2A		ND	0000 2359	
50271	429.00		GRC	LIMNOS	GRC	024E15 39N55	279	RC	850HA2A		ND	0000 2359	
50259	429.00		IRL	BALDONNEL	IRL	006W27 53N18	44	RC	2K14A2A		ND	0000 2359	
50470	429.00		IRL	MOB 1	IRL	011W00 53N00	88	RC	2K14A2A		ND	0000 2359	
50671	429.00		LBY	HAMADA	LBY	012E50 29N32	148	RC	2K14A2A		ND	0000 2359	
50911	429.00		LBY	TOBRUK	LBY	023E59 32N06	137	RC	2K14A2A		ND	0000 2359	
50561	429.00		MAU	AGALEGA N ISLAND	MAU	056E36 10S22	448	RC	850HA2A		ND	0400 1100	
50474	429.00		MAU	FLIC EN FLAC	MAU	057E22 20S17	198	RC	850HA2A		ND	0000 2359	
50586	429.00		POL	POZNAN LAWICA	POL	016E57 52N24	79	RC	2K14A2A		ND	0000 2359	
50591	429.00		POL	STALOWA WOLA	POL	022E00 50N38	88	RC	2K14A2A		ND	0000 2359	
50739	429.00		ROU	CONSTANTA	ROU	028E29 44N20	44	RC	2K14A2A		ND	0000 2359	

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50030	429.00		SUI	LOCARNO	SUI	008E53 46N10	44	RC	2K14A2A		ND	0000 2359	
51080	429.00		TCD	SARH	TCD	018E23 09N09	198	RC	2K14A2A		ND	0000 2359	
50205	429.00		TCH	BRATISLAVA	TCH	017E14 48N11	44	RC	2K14A2A		ND	0000 2359	
50206	429.00		TCH	BRNO	TCH	016E46 49N09	44	RC	2K14A2A		ND	0000 2359	
50219	429.00		TCH	PRAHA/MIDDLE	TCH	014E18 50N05	44	RC	2K14A2A		ND	0000 2359	
50194	429.00		URS	DONETSK	UKR	037E48 47N56	148	RC	2K14A2A		ND	0000 2359	
50144	429.00		URS	GALI	URS	041E45 42N38	148	RC	2K14A2A		ND	0000 2359	
50304	429.00		YUG	MALI LOSINJ	YUG	014E28 44N32	98	RC	2K14A2A		ND	0000 2359	
51021	429.50		CME	NGOILA	CME	014E00 02N37	98	RC	2K14A2A		ND	0000 2359	
50708	430.00		AFS	GIYANI	AFS	030E40 23S22	98	RC	2K14A2A		ND	0000 2359	
50709	430.00		AFS	GIYANI	AFS	030E40 23S22	98	RC	2K14A2A		ND	0000 2359	
50707	430.00		AFS	JAN SMUTS	AFS	028E13 26S14	98	RC	2K14A2A		ND	0000 2359	
51026	430.00		ALG	TIARET	ALG	001E28 35N21	98	RC	2K14A2A		ND	0000 2359	
50619	430.00		BEL	ANTWERPEN	BEL	004E24 51N11	44	RC	2K14A2A		ND	0000 2359	
50721	430.00		CPV	SAL	CPV	022W54 16N42	500	RC	2K14A2A		ND	0000 2359	
50797	430.00		CTI	BOUNA	CTI	005W02 09N16	198	RC	2K14A2A		ND	0000 2359	
50449	430.00		D	BREMGARTEN	D	007E38 47N55	92	RC	2K14A2A		ND	0000 2359	
50023	430.00		DDR	BERLIN SCHOENEFELD	DDR	013E33 52N23	18	RC	2K14A2A		ND	0000 2359	
50024	430.00		DDR	BERLIN SCHOENEFELD	DDR	013E28 52N22	18	RC	2K14A2A		ND	0000 2359	
50368	430.00		F	AIX LES MILLES	F	005E22 43N31	44	RC	2K14A2A		ND	0000 2359	
50356	430.00		F	PARIS ORLY CHEVANNES	F	002E28 48N33	44	RC	850HA2A		ND	0000 2359	
50357	430.00		F	S YAN BRIANT	F	004E07 46N18	44	RC	2K14A2A		ND	0000 2359	
50081	430.00		FNL	FORSSA	FNL	023E39 60N48	88	RC	2K14A2A		ND	0000 2359	
50083	430.00		FNL	HAILUOTO	FNL	024E42 64N58	88	RC	2K14A2A		ND	0000 2359	
50394	430.00		G	BOSCOMBE DOWN	G	001W46 51N11	46	RC	850HA2A		ND	0000 2359	
50407	430.00		G	NOTTINGHAM	G	001W05 52N55	18	RC	850HA2A		ND	0000 2359	
50419	430.00		G	OIL PLAT MCP 01	G	000W17 58N50	55	RC	850HA2A		ND	0000 2359	
50417	430.00		G	OIL PLT AMOCO 49/27F	G	002E19 53N02	35	RC	850HA2A		ND	0000 2359	
50623	430.00		GAB	LAMBARENE	GAB	010E14 00S43	48	RC	2K14A2A		ND	0000 2359	
50008	430.00		HNG	BUGAC	HNG	019E41 46N41	98	RC	2K14A2A		ND	0000 2359	
50764	430.00		HOL	HOOGEVEEN	HOL	006E31 52N44	29	RC	2K14A2A		ND	0000 2359	
50551	430.00		MDG	MALAIMBANDY	MDG	045E33 20S21	88	RC	2K14A2A		ND	0300 1500	
50543	430.00		MDG	MANDRITSARA	MDG	048E50 15S50	88	RC	2K14A2A		ND	0300 1500	
50840	430.00		MRC	GUELMIM	MRC	005W40 33N52	98	RC	2K14A2A		ND	0000 2359	
50855	430.00		MRC	GUELTAT ZEMMOUR	MRC	012W25 25N10	298	RC	2K14A2A		ND	0000 2359	
50278	430.00		MRC	MARRAKECH	MRC	008W15 31N05	98	RC	2K14A2A		ND	0000 2359	
50853	430.00		POR	ALVERCA	POR	009W02 38N54	298	RC	2K14A2A		ND	0000 2359	
50731	430.00		ROU	BUCURESTI/BANEASA	ROU	026E08 44N30	27	RC	2K14A2A		ND	0000 2359	
50936	430.00		TGO	SANSANNE MANGO	TGO	029E00 10N22	88	RC	2K14A2A		ND	0020 2359	
50638	430.00		TUN	MONASTIR SKANES	TUN	010E47 37N46	88	RC	850HA2A		ND	0000 2359	

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50809	430.00		TUR	ERZINCAN	TUR	039E31 39N43	74	RC	2K14A2A		ND	0000 2359	
50288	430.00		URS	GOMEL	BLR	031E01 52N25	148	RC	2K14A2A		ND	0000 2359	
50195	430.00		URS	JITOMIR	UKR	028E20 50N16	48	RC	2K14A2A		ND	0000 2359	
50152	430.00		URS	ARKHANGHELSK	URS	040E12 64N33	48	RC	2K14A2A		ND	0000 2359	
50176	430.00		URS	NOVGOROD	URS	031E18 58N32	48	RC	2K14A2A		ND	0000 2359	
50145	430.00		URS	PETROZAVODSK	URS	034E04 61N47	148	RC	2K14A2A		ND	0000 2359	
50525	431.00		ALG	CHENACHENE	ALG	004W13 26N03	198	RC	2K14A2A		ND	0000 2359	
50423	431.00		AUT	VILLACH	AUT	013E55 46N42	109	RC	2K14A2A		ND	0000 2359	
50483	431.00		BUL	TOLBOUHIN	BUL	027E50 43N35	29	RC	2K14A2A		ND	0000 2359	
50997	431.00		CME	DOUALA	CME	009E43 04N01	179	RC	2K14A2A		ND	0000 2359	
50974	431.00		CME	NGAOUNDERE	CME	013E34 07N22	179	RC	2K14A2A		ND	0000 2359	
50778	431.00		CTI	SAN-PEDRO	CTI	006W39 04N44	198	RC	2K14A2A		ND	0000 2359	
50450	431.00		D	BARMEN	D	007E11 51N20	55	RC	2K14A2A		ND	0000 2359	
50451	431.00		D	DEINING	D	011E33 49N13	46	RC	2K14A2A		ND	0000 2359	
50657	431.00		DDR	LANDSBERG	DDR	011E42 52N30	46	RC	2K14A2A		ND	0000 2359	
50231	431.00		DNK	ROSKILDE	DNK	012E11 55N38	48	RC	850HA2A		ND	0000 2359	
50329	431.00		F	CASTRES	F	002E17 43N33	44	RC	2K14A2A		ND	0000 2359	
50825	431.00		G	PLATFORM DP3	G	003W28 53N48	35	RC	850HA2A		ND	0000 2359	
50411	431.00		G	UNST	G	000W51 60N45	35	RC	850HA2A		ND	0000 2359	
51066	431.00		GHA	ACCRA	GHA	000W11 05N34	248	RC	2K14A2A		ND	0000 2359	
50273	431.00		GRC	IRAKLION	GRC	025E11 35N20	279	RC	850HA2A		ND	0000 2359	
50910	431.00		LBY	MESURATA	LBY	015E13 32N22	35	RC	2K14A2A		ND	0000 2359	
50549	431.00		MDG	MORAFENOBE	MDG	045E55 17S51	88	RC	2K14A2A		ND	0300 1500	
50592	431.00		POL	STRZELIN	POL	016E55 51N18	46	RC	850HA2A		ND	0000 2359	
50593	431.00		POL	WAPNICA	POL	015E28 53N17	53	RC	850HA2A		ND	0000 2359	
50748	431.00		ROU	IASI	ROU	027E35 47N14	92	RC	2K14A2A		ND	0000 2359	
50631	431.00		TUN	JERBA MELITA AEROPOR	TUN	010E45 33N52	183	RC	850HA2A		ND	0000 2359	
50807	431.00		TUR	KARS	TUR	043E06 40N37	74	RC	2K14A2A		ND	0000 2359	
50196	431.00		URS	PERVOMAISK	UKR	030E13 50N27	48	RC	2K14A2A		ND	0000 2359	
50146	431.00		URS	SOTCHI	URS	039E42 43N35	148	RC	2K14A2A		ND	0000 2359	
50506	432.00		ALG	ADRAR	ALG	000W14 27N46	98	RC	2K14A2A		ND	0000 2359	
50507	432.00		ALG	ORAN ES SENIA	ALG	000W38 35N39	98	RC	2K14A2A		ND	0000 2359	
50959	432.00		ALG	TINDOUF	ALG	008W10 35N02	98	RC	2K14A2A		ND	0000 2359	
51055	432.00		BEN	DJOUGOU AEROPORT	BEN	001E40 09N42	98	RC	2K14A2A		ND	0000 2359	
50324	432.00		CYP	LARNACA	CYP	033E33 34N49	148	RC	2K14A2A		ND	0000 2359	
50453	432.00		D	HANAU	D	008E57 50N10	46	RC	2K14A2A		ND	0000 2359	
50452	432.00		D	LEMWERDER	D	008E37 53N08	46	RC	2K14A2A		ND	0000 2359	
50658	432.00		DDR	BRONKOW	DDR	013E58 51N40	48	RC	2K14A2A		ND	0000 2359	
50227	432.00		DNK	KARUP	DNK	008E59 56N18	48	RC	850HA2A		ND	0000 2359	
50247	432.00		E	LAS PALMAS	CNR	015W24 27N58	183	RC	2K14A2A		ND	0000 2359	

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50245	432.00		E	NAVAS DEL REY	E	004W15 40N22	55	RC	2K14A2A		ND	0000 2359	
50501	432.00		E	PROTECCION CIVIL	E	003W42 40N25	198	RC	2K14A2A		ND	0000 2359	
50338	432.00		F	ROCROI	F	004E25 49N55	92	RC	2K14A2A		ND	0000 2359	
50339	432.00		F	SISTERON	F	005E56 44N17	44	RC	2K14A2A		ND	0000 2359	
50375	432.00		F	USSEL THALAMY	F	002E25 45N33	90	RC	2K14A2A		ND	0000 2359	
50100	432.00		FNL	SODANKYLA	FNL	026E37 67N24	88	RC	2K14A2A		ND	0000 2359	
50402	432.00		G	LEE ON SOLENT	G	001W12 50N49	18	RC	850HA2A		ND	0000 2359	
51057	432.00		GHA	TAMALE	GHA	000W53 09N26	24	RC	2K14A2A		ND	0000 2359	
50119	432.00		HOL	OILRIG	HOL	004E20 53N25	48	RC	2K14A2A		ND	0000 2359	
50115	432.00		I	VILLAFRANCA	I	010E47 45N19	88	RC	2K14A2A		ND	0000 2359	
50469	432.00		IRL	PLATFORM 6	IRL	011W00 53N00	44	RC	2K14A2A		ND	0000 2359	
51059	432.00		KEN	NAIROBI	KEN	036E49 01S17	148	RC	2K14A2A		ND	0000 2359	
51082	432.00		LBY	GIALLO	LBY	021E26 28N42	298	RC	2K14A2A		ND	0000 2359	
50541	432.00		MDG	BEALANANA	MDG	048E42 14S33	88	RC	2K14A2A		ND	0300 1500	
50839	432.00		MRC	ERRACHIDIA	MRC	004W25 31N45	198	RC	2K14A2A		ND	0000 2359	
50584	432.00		POL	OSIELCINY	POL	018E43 52N38	48	RC	850HA2A		ND	0000 2359	
50743	432.00		ROU	CRAIOVA	ROU	023E53 44N19	146	RC	2K14A2A		ND	0000 2359	
50863	432.00		TCH	BRATISLAVA-IVANKA	TCH	017E10 48N08	44	RC	2K14A2A		ND	0000 2359	
50930	432.00		TGO	SANSANNE MANGO	TGO	029E00 10N22	88	RC	2K14A2A		ND	0020 2359	
50816	432.00		TUR	BEYKOZ	TUR	029E10 41N10	138	RC	2K14A2A		ND	0000 2359	
50810	432.00		TUR	GAZIANTEP	TUR	037E28 36N57	74	RC	2K14A2A		ND	0000 2359	
50290	432.00		URS	VITEBSK	BLR	030E11 55N13	148	RC	2K14A2A		ND	0000 2359	
50197	432.00		URS	BOBRKA	UKR	024E16 49N39	148	RC	2K14A2A		ND	0000 2359	
50198	432.00		URS	MELITOPOL	UKR	035E22 46N50	48	RC	2K14A2A		ND	0000 2359	
50303	432.00		YUG	OHRID	YUG	020E40 41N13	48	RC	2K14A2A		ND	0000 2359	
50306	432.00		YUG	SARAJEVO	YUG	018E27 43N56	88	RC	2K14A2A		ND	0000 2359	
50704	433.00		AFS	WELCOM	AFS	026E42 27S58	183	RC	2K14A2A		ND	0000 2359	
50524	433.00		ALG	CONSTANTINE	ALG	006E47 36N11	298	RC	2K14A2A		ND	0000 2359	
50523	433.00		ALG	ILLIZI	ALG	008E29 26N30	298	RC	2K14A2A		ND	0000 2359	
51043	433.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	48	RC	2K14A2A		ND	0000 2359	
50487	433.00		BUL	HASKOVO	BUL	025E23 41N56	29	RC	2K14A2A		ND	0000 2359	
50955	433.00		CME	AKWAYA	CME	009E34 06N24	98	RC	2K14A2A		ND	0000 2359	
50984	433.00		CME	BERTOUA	CME	013E44 04N32	179	RC	2K14A2A		ND	0000 2359	
50976	433.00		CME	MAROUA	CME	014E15 10N27	198	RC	2K14A2A		ND	0000 2359	
50788	433.00		CTI	ABENGOUROU	CTI	003W29 06N44	198	RC	2K14A2A		ND	0000 2359	
50648	433.00		DDR	HAMMERSTEDT	DDR	011E29 50N57	38	RC	2K14A2A		ND	0000 2359	
50248	433.00		E	JEREZ	E	006W01 36N50	92	RC	2K14A2A		ND	0000 2359	
50250	433.00		E	PLATFORM CASTELLON	E	001E19 40N41	44	RC	2K14A2A		ND	0000 2359	
50233	433.00		E	VIGO	E	008W45 42N16	92	RC	2K14A2A		ND	0000 2359	
50334	433.00		F	HAGUENAU	F	007E49 48N48	44	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50377	433.00		F	S SYMPHORIEN	F	004E56 45N39	44	RC	2K14A2A		ND	0000 2359	
50353	433.00		F	VALDAHON	F	006E20 47N10	44	RC	2K14A2A		ND	0000 2359	
50084	433.00		FNL	HANKO	FNL	023E05 59N51	88	RC	2K14A2A		ND	0000 2359	
50103	433.00		FNL	VAALA	FNL	026E46 64N30	88	RC	2K14A2A		ND	0000 2359	
50398	433.00		G	CRANFIELD	G	000W33 52N08	27	RC	850HA2A		ND	0000 2359	
50829	433.00		G	PLATFORM SHELL DD	G	002E11 53N01	35	RC	850HA2A		ND	0000 2359	
50924	433.00		GRC	ALONISSOS	GRC	023E55 39N15	59	RC	850HA2A		ND	0000 2359	
50769	433.00		HOL	TEUGE	HOL	006E03 52N15	29	RC	2K14A2A		ND	0000 2359	
50473	433.00		MAU	NOUVELLE FRANCE	MAU	057E44 20S21	198	RC	850HA2A		ND	0000 2359	
50593	433.00		MDG	IHOSY	MDG	046E10 22S24	88	RC	2K14A2A		ND	0300 1500	
50846	433.00		MRC	MAHBES	MRC	009W05 27N15	298	RC	2K14A2A		ND	0000 2359	
50578	433.00		POL	KETRZYN	POL	021E25 54N02	98	RC	850HA2A		ND	0000 2359	
50742	433.00		ROU	CONSTANTA	ROU	028E37 44N28	92	RC	2K14A2A		ND	0000 2359	
50208	433.00		TCH	CHOCEN	TCH	016E08 50N00	88	RC	2K14A2A		ND	0000 2359	
50811	433.00		TUR	DENIZLI/CARDAK	TUR	029E41 37N52	74	RC	2K14A2A		ND	0000 2359	
50199	433.00		URS	SIMFEROPOL	UKR	034E06 44N56	148	RC	2K14A2A		ND	0000 2359	
50148	433.00		URS	MINERALNYE VODY	URS	043E09 44N13	48	RC	2K14A2A		ND	0000 2359	
50165	433.00		URS	PSKOV	URS	028E00 57N43	48	RC	2K14A2A		ND	0000 2359	
50175	433.00		URS	ZAKATALY	URS	046E40 41N38	148	RC	2K14A2A		ND	0000 2359	
50801	433.00		YUG	CRES	YUG	014E25 44N54	98	RC	2K14A2A		ND	0000 2359	
50684	433.00		ZAI	BOSONDJO	ZAI	021E47 01N15	94	RC	2K14A2A		ND	0500 1600	
50693	433.00		ZAI	LUEBO	ZAI	021E30 05S21	94	RC	2K14A2A		ND	0500 1600	
51073	434.00		AGL	PORTO AMBOIM	AGL	013E46 10S43	137	RC	2K14A2A		ND	0000 2359	
50528	434.00		ALG	EL BAYAD	ALG	001E01 33N41	98	RC	2K14A2A		ND	0000 2359	
51056	434.00		BEN	KANDI AEROPORT	BEN	002E56 11N08	98	RC	2K14A2A		ND	0000 2359	
51052	434.00		BEN	SAVE AEROPORT	BEN	002E31 07N47	46	RC	2K14A2A		ND	0000 2359	
50478	434.00		BUL	SOFIA	BUL	023E24 42N41	48	RC	2K14A2A		ND	0000 2359	
50457	434.00		D	SCHWAEBISCH GMUEND	D	009E48 48N50	27	RC	2K14A2A		ND	0000 2359	
50656	434.00		DDR	BARNEWITZ	DDR	012E37 52N29	46	RC	2K14A2A		ND	0000 2359	
50232	434.00		DNK	TIRSTRUP	DNK	010E29 56N19	48	RC	850HA2A		ND	0000 2359	
50352	434.00		F	MELUN VILLAROCHE	F	002E38 48N37	44	RC	2K14A2A		ND	0000 2359	
50826	434.00		G	PLATFORM DP1	G	003W35 53N51	35	RC	850HA2A		ND	0000 2359	
50011	434.00		HNG	KISKUNFELEGYHAZA	HNG	019E53 46N43	98	RC	850HA2A		ND	0500 1900	
50120	434.00		HOL	THORN	HOL	005E50 51N11	27	RC	2K14A2A		ND	0000 2359	
51087	434.00		LBY	NALUT	LBY	010E59 31N52	135	RC	2K14A2A		ND	0000 2359	
50547	434.00		MDG	ANKAVANDRA	MDG	045E17 18S48	88	RC	2K14A2A		ND	0300 1500	
50475	434.00		MRC	CASABLANCA NOUASSER	MRC	007W34 32N00	98	RC	2K14A2A		ND	0000 2359	
50847	434.00		MRC	TAZA	MRC	004W10 34N08	92	RC	2K14A2A		ND	0000 2359	
50580	434.00		POL	KROSNO	POL	021E44 49N41	44	RC	2K14A2A		ND	0000 2359	
50588	434.00		POL	REPLINO	POL	016E56 52N24	68	RC	850HA2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50730	434.00		ROU	BUCURESTI/BANEASA	ROU	026E04 44N30	27	RC	2K14A2A		ND	0000 2359	
50737	434.00		ROU	CLUJ-NAPOCA	ROU	023E43 46N46	27	RC	2K14A2A		ND	0000 2359	
50028	434.00		SUI	BIRRFELD	SUI	008E14 47N27	44	RC	2K14A2A		ND	0000 2359	
50875	434.00		TCH	MARIANSKE LAZNE	TCH	012E43 49N56	44	RC	2K14A2A		ND	0000 2359	
50817	434.00		TUR	ERZURUM/MUDURGE	TUR	041E20 39N58	124	RC	2K14A2A		ND	0000 2359	
50812	434.00		TUR	ISKENDERUN	TUR	036E05 36N35	74	RC	2K14A2A		ND	0000 2359	
50289	434.00		URS	MINSK	BLR	027E31 53N53	88	RC	2K14A2A		ND	0000 2359	
50200	434.00		URS	DNEPROPETROVSK	UKR	035E00 48N29	88	RC	2K14A2A		ND	0000 2359	
50203	434.00		URS	TCHERNIAKHOV	UKR	028E42 50N27	46	RC	2K14A2A		ND	0000 2359	
50163	434.00		URS	ARMAVIR	URS	040E49 45N00	46	RC	2K14A2A		ND	0000 2359	
50149	434.00		URS	GORKA	URS	032E22 59N48	148	RC	2K14A2A		ND	0000 2359	
50151	434.00		URS	SHAULAY	URS	023E15 55N56	48	RC	2K14A2A		ND	0000 2359	
51006	511.00		ALG	HASSI EL KHEBI	ALG	005W16 29N11	98	RC	2K14A2A		ND	0000 2359	
50509	511.00		ALG	IN AMENAS	ALG	009E37 28N03	298	RC	2K14A2A		ND	0000 2359	
50086	511.00		FNL	JAKALAPAA	FNL	025E45 68N43	88	RC	2K14A2A		ND	0000 2359	
51086	511.00		LBY	WARE HOUSE 59E	LBY	021E26 28N40	98	RC	2K14A2A		ND	0000 2359	
50727	511.00		ROU	BAIA MARE	ROU	023E26 47N40	44	RC	2K14A2A		ND	0000 2359	
50744	511.00		ROU	CRAIOVA	ROU	023E55 44N19	44	RC	2K14A2A		ND	0000 2359	
51081	511.00		TCD	PALA	TCD	014E56 09N23	179	RC	2K14A2A		ND	0000 2359	
50162	511.00		URS	ORIOL	URS	035E45 53N00	148	RC	2K14A2A		ND	0000 2359	
50688	511.00		ZAI	KAPANGA	ZAI	022E39 08S21	94	RC	2K14A2A		ND	0500 1600	
50700	511.00		ZAI	WATSA	ZAI	021E33 03N00	94	RC	2K14A2A		ND	0500 1600	
50514	513.00		ALG	GARADJEBILET	ALG	007W11 26N53	198	RC	2K14A2A		ND	0000 2359	
51000	513.00		CME	TIGNERE	CME	012E36 07N22	98	RC	2K14A2A		ND	0000 2359	
51061	513.00		KEN	NAIROBI	KEN	036E49 01S17	148	RC	2K14A2A		ND	0000 2359	
50539	513.00		MAU	FLIC EN FLAC	MAU	057E22 20S17	48	RC	850HA2A		ND	0000 2359	
50738	513.00		ROU	CLUJ-NAPOCA	ROU	023E48 46N47	44	RC	2K14A2A		ND	0000 2359	
50697	513.00		ZAI	MWENE DITU	ZAI	023E05 06S59	94	RC	2K14A2A		ND	0500 1600	
51054	514.00		BEN	DJOUGOU AEROPORT	BEN	001E40 09N42	92	RC	2K14A2A		ND	0000 2359	
50942	514.00		CME	BAMENDA	CME	010E07 06N02	98	RC	2K14A2A		ND	0000 2359	
50790	514.00		CTI	BONDOUKOU	CTI	002W42 08N01	198	RC	2K14A2A		ND	0000 2359	
50622	514.00		GAB	BITAM	GAB	011E37 02N05	138	RC	2K14A2A		ND	0000 2359	
50544	514.00		MDG	BEFANDRIANA	MDG	048E29 15S12	88	RC	2K14A2A		ND	0300 1500	
50681	514.00		ZAI	AKETI	ZAI	023E50 02N42	94	RC	2K14A2A		ND	0500 1600	
50682	514.00		ZAI	BINGA	ZAI	020E30 02N26	94	RC	2K14A2A		ND	0500 1600	
50692	514.00		ZAI	LUBERO	ZAI	029E15 00S08	94	RC	2K14A2A		ND	0500 1600	
50973	515.00		ALG	IN GEZZAM	ALG	005E46 19N34	98	RC	2K14A2A		ND	0000 2359	
51024	515.00		ALG	TAMANRASSET	ALG	005E25 22N48	98	RC	2K14A2A		ND	0000 2359	
51038	515.00		BEN	KANDI AEROPORT	BEN	002E56 11N08	46	RC	2K14A2A		ND	0000 2359	
51069	515.00		GHA	KIMASI	GHA	000W20 05N52	24	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50749	515.00		ROU	SATU MARE	ROU	022E52 47N38	44	RC	2K14A2A		ND	0000 2359	
50155	515.00		URS	BALACHOV	URS	043E10 51N35	148	RC	2K14A2A		ND	0000 2359	
50938	516.00		ALG	TIMIMOUN	ALG	000E17 29N14	98	RC	2K14A2A		ND	0000 2359	
50950	516.00		CME	BAFIA	CME	011E16 04N46	48	RC	2K14A2A		ND	0000 2359	
50970	516.00		CME	KRIBI	CME	009E43 02N53	46	RC	2K14A2A		ND	0000 2359	
51029	516.00		CME	MEIGANGA	CME	014E16 06N33	98	RC	2K14A2A		ND	0000 2359	
50780	516.00		CTI	DALOA	CTI	006W28 06N52	198	RC	2K14A2A		ND	0000 2359	
50752	516.00		ROU	SUCEAVA	ROU	026E24 47N45	44	RC	2K14A2A		ND	0000 2359	
50168	516.00		URS	BRIANSK	URS	034E02 53N14	148	RC	2K14A2A		ND	0000 2359	
50680	516.00		ZAI	FUNGURUME	ZAI	026E19 10S32	94	RC	2K14A2A		ND	0500 1600	
51046	517.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	48	RC	2K14A2A		ND	0000 2359	
51039	517.00		BEN	PARAKOU AEROPORT	BEN	002E38 09N20	98	RC	2K14A2A		ND	0000 2359	
50489	517.00		BUL	PLEVEN	BUL	024E35 43N24	29	RC	2K14A2A		ND	0000 2359	
50960	517.00		CME	MUDEMBA	CME	008E53 05N01	98	RC	2K14A2A		ND	0000 2359	
51071	517.00		GHA	NSAWAM	GHA	000W20 05N52	24	RC	2K14A2A		ND	0000 2359	
50010	517.00		HNG	JASZBERENY	HNG	019E54 47N30	48	RC	2K14A2A		ND	0000 2359	
50906	517.00		KEN	NAIROBI	KEN	036E52 01S22	98	RC	2K14A2A		ND	0000 2359	
50729	517.00		ROU	BUCURESTI/BANEASA	ROU	026E02 44N29	27	RC	2K14A2A		ND	0000 2359	
50755	517.00		ROU	TIMISOARA	ROU	021E24 45N48	44	RC	2K14A2A		ND	0000 2359	
50220	517.00		TCH	PROSTEJOV	TCH	017E06 49N30	46	RC	2K14A2A		ND	0000 2359	
50689	517.00		ZAI	KODORO	ZAI	020E20 01N17	94	RC	2K14A2A		ND	0500 1600	
50958	519.00		ALG	CHENACHENE	ALG	004W13 26N03	98	RC	2K14A2A		ND	0000 2359	
50532	519.00		ALG	TAMANRASSET	ALG	005E25 22N48	298	RC	2K14A2A		ND	0000 2359	
50982	519.00		CME	BAFOUSSAM	CME	010E25 05N27	98	RC	2K14A2A		ND	0000 2359	
51034	519.00		CME	BATOURI	CME	014E22 04N28	179	RC	2K14A2A		ND	0000 2359	
51064	519.00		GHA	TAMALE	GHA	000W53 09N26	248	RC	2K14A2A		ND	0000 2359	
50883	519.00		TCH	POPRAD TATRY/WEST	TCH	020E16 49N04	44	RC	2K14A2A		ND	0000 2359	
50699	519.00		ZAI	SANDOA	ZAI	022E56 09S42	94	RC	2K14A2A		ND	0500 1600	
51076	520.00		AGL	CAFUNFO	AGL	018E00 08S46	183	RC	2K14A2A		ND	0000 2359	
50937	520.00		ALG	GARA DJEBILET	ALG	007W11 26N53	98	RC	2K14A2A		ND	0000 2359	
51049	520.00		BEN	COTONOU AEROPORT	BEN	002E25 06N23	98	RC	2K14A2A		ND	0000 2359	
50019	520.00		HNG	BUDAORS	HNG	018E59 47N27	38	RC	2K14A2A		ND	0000 2359	
50171	520.00		URS	MUKHRANI	URS	044E34 41N55	88	RC	2K14A2A		ND	0000 2359	
50156	520.00		URS	ORIOL	URS	035E45 53N00	48	RC	2K14A2A		ND	0000 2359	
50694	520.00		ZAI	LUIZA	ZAI	022E04 07S11	94	RC	2K14A2A		ND	0500 1600	
50696	520.00		ZAI	N'SANGI	ZAI	015E19 05S36	94	RC	2K14A2A		ND	0500 1600	
50695	520.00		ZAI	NWADINGUSHA	ZAI	027E12 10S45	94	RC	2K14A2A		ND	0500 1600	
51041	521.00		BEN	PARAKOU AEROPORT	BEN	002E38 09N20	98	RC	2K14A2A		ND	0000 2359	
50998	521.00		CME	YAGOUA	CME	015E14 10N22	98	RC	2K14A2A		ND	0000 2359	
50991	521.00		CME	YAOUNDE	CME	011E31 03N50	98	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
51065	521.00		GHA	TAKORADI	GHA	001W45 04N54	248	RC	2K14A2A		ND	0000 2359	
51060	521.00		KEN	NAIROBI	KEN	036E49 01S17	148	RC	2K14A2A		ND	0000 2359	
50158	521.00		URS	KALATCH	URS	040E40 50N26	48	RC	2K14A2A		ND	0000 2359	
50172	521.00		URS	MITCHURINSK	URS	040E11 52N54	48	RC	2K14A2A		ND	0000 2359	
51079	522.00		AGL	CABINDA	AGL	012E12 05S37	183	RC	2K14A2A		ND	0000 2359	
50952	522.00		ALG	BORDJ OMAR DRISS	ALG	006E50 28N08	98	RC	2K14A2A		ND	0000 2359	
50965	522.00		CME	CAMPO	CME	009E56 02N22	48	RC	2K14A2A		ND	0000 2359	
51001	522.00		CME	NGAOUNDAL	CME	013E23 06N24	98	RC	2K14A2A		ND	0000 2359	
50961	522.00		CME	NGUTI	CME	009E25 05N20	48	RC	2K14A2A		ND	0000 2359	
50009	522.00		HNG	NYIREGYHAZA	HNG	021E42 48N00	24	RC	2K14A2A		ND	0000 2359	
50987	522.50		CME	GAROUA	CME	013E25 09N20	98	RC	2K14A2A		ND	0000 2359	
50715	523.00		AFS	SAINT LUCIA	AFS	032E20 28S00	98	RC	2K14A2A		ND	0000 2359	
50966	523.00		ALG	DJANET	ALG	009E26 24N16	98	RC	2K14A2A		ND	0000 2359	
51007	523.00		CME	MOULOUNDOU	CME	015E13 02N02	179	RC	2K14A2A		ND	0000 2359	
50776	523.00		CTI	YAMOUSSOUKRO	CTI	005W20 06N55	198	RC	2K14A2A		ND	0000 2359	
50277	523.00		MRC	AGADIR	MRC	009W40 30N25	98	RC	2K14A2A		ND	0000 2359	
50838	523.00		MRC	TARFAYA	MRC	012W55 27N57	98	RC	2K14A2A		ND	0000 2359	
50685	523.00		ZAI	IKELA	ZAI	023E17 01S12	94	RC	2K14A2A		ND	0500 1600	
50687	523.00		ZAI	KABINDA	ZAI	024E20 06S07	94	RC	2K14A2A		ND	0500 1600	
50990	524.00		CME	YAOUNDE	CME	011E31 03N50	179	RC	2K14A2A		ND	0000 2359	
50159	524.00		URS	MITCHURINSK	URS	040E11 52N54	148	RC	2K14A2A		ND	0000 2359	
50714	525.00		AFS	SAINT LUCIA	AFS	032E20 28S00	98	RC	2K14A2A		ND	0000 2359	
50978	526.00		CME	KOUTABA	CME	010E45 05N39	46	RC	2K14A2A		ND	0000 2359	
50756	526.00		ROU	TIMISOARA	ROU	021E18 45N49	27	RC	2K14A2A		ND	0000 2359	
50928	526.00		TGO	NIAMTOUGOU	TGO	001E03 09N42	88	RC	2K14A2A		ND	0000 2359	
50179	526.00		URS	KURSK	URS	036E12 51N46	48	RC	2K14A2A		ND	0000 2359	

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Document 137-F/E/S
12 mars 1985
Original: français
anglais
espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

SERVICE MOBILE MARITIME DE LA REGION 1
DANS LES BANDES 415 - 435 kHz, 435 - 526,5 kHz,
1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz et 2 045 - 2 160 kHz

Liste des besoins non satisfaits

MARITIME MOBILE SERVICE IN REGION 1 IN THE BANDS
415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz,
1 635 - 1 800 kHz and 2 045 - 2 160 kHz

List of non-satisfied requirements

SERVICIO MOVIL MARITIMO DE LA REGION 1
EN LAS BANDAS 415 - 435 kHz, 435 - 526,5 kHz,
1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Lista de necesidades no satisfechas

Annexe/Annex/Anexo: 1

Pour des raisons d'économie, ce document n'a été tiré qu'en un nombre restreint d'exemplaires. Les participants sont donc priés de bien vouloir apporter à la réunion leurs documents avec eux, car il n'y aura pas d'exemplaires supplémentaires disponibles.

Renseignements inclus dans les colonnes de la liste des besoins non satisfaits pour le service mobile maritime de la Région 1 dans les bandes 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz et 2 045 - 2 160 kHz

Colonne

0. Numéro de série de l'IFRB

1. Fréquence assignée (kHz)/(fréquence porteuse (kHz) pour J3E)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station côtière d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude de la station d'émission (en degrés et minutes)

7. Rayon (km) de la zone de service circulaire

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance d'émission nécessaire

10A: puissance apparente rayonnée sur une antenne verticale courte (p.a.r.v.) (dBW)

(valeur calculée sur la base du champ minimum à protéger et de la portée de service dans les conditions de propagation par onde de sol)

10B: puissance fournie à la ligne d'alimentation de l'antenne (dBW)

(valeur calculée: p.a.r.v. + 7 dB (pour la bande des 500 kHz)
p.a.r.v. + 4 dB (pour la bande des 2 MHz))

11. Caractéristiques de l'antenne

11A: azimut du rayonnement maximum (ND pour les antennes non directives) (degrés)

11B: gain maximum de l'antenne (dB)

11C: angle d'ouverture du lobe principal (degrés)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

Information included in the columns of the list of non-satisfied requirements for the maritime mobile service in Region 1 in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Column

0. IFRB serial number

1. Assigned frequency (kHz)/(carrier frequency (kHz) for J3E)

2. Channel number

3. Country symbol

4. Transmitting coast station name

5. Symbol of the geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and class of emission

10. Necessary transmitting power:

10A: effective monopole radiated power (e.m.r.p.) (dBW)

(calculated value on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

10B: power supplied to the antenna transmission line (dBW)

(calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
e.m.r.p. + 4 dB (for the 2 MHz band)

11. Antenna characteristics

11A: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

11B: maximum antenna gain (dB)

11C: angular width of the main lobe (degrees)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Información incluida en las columnas de la lista de necesidades no satisfechas para el servicio móvil marítimo de la Región 1 en las bandas 415 - 435 kHz, 435 - 526,5 kHz, 1 606,5 - 1 625 kHz,1 635 - 1 800 kHz y 2 045 - 2 160 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)/(frecuencia portadora (kHz) para emisión J3E)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación costera transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6 Longitud y latitud (grados y minutos) de la estación transmisora

7. Radio (km) de la zona de servicio circular

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión

10. Potencia de transmisión necesaria

10A: potencia radiada aparente referida a una antena vertical corta (p.r.a.v.) (dBW)

(valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

10B: potencia suministrada a la línea de transmisión de la antena (dBW)

(valor calculado: p.r.a.v. + 7 dB (para bandas de 500 kHz)
p.r.a.v. + 4 dB (para bandas de 2 MHz))

11. Características de la antena

11A: azimut de radiación máxima (ND para antena no direccional) (grados)

11B: ganancia máxima de la antena (dB)

11C: anchura angular del lóbulo principal (grados)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2844				AFS LUDERITZ	AFS	015E04 26S38	400	CP	2K80J3E			ND			0000 2359	
2848				AFS LUDERITZ	AFS	015E04 26S38	400	CP	2K80J3E			ND			0000 2359	
2850				AFS LUDERITZ	AFS	015E04 26S38	400	CP	2K80J3E			ND			0000 2359	
2851				AFS LUDERITZ	AFS	015E04 26S38	400	CP	2K80J3E			ND			0000 2359	
2111				ALG ALGER RADIO	ALG	003E18 36N40	500	CP	100HA1A			ND			0000 2359	
2167				ALG ALGER RADIO	ALG	003E18 36N40	500	CP	100HA1A			ND			0000 2359	
2133				ALG ANNABA RADIO	ALG	007E45 36N54	400	CP	304HF1B			ND			0000 2359	
2134				ALG ANNABA RADIO	ALG	007E45 36N54	500	CP	304HF1B			ND			0000 2359	
2135				ALG ANNABA RADIO	ALG	007E45 36N54	500	CP	304HF1B			ND			0000 2359	
2136				ALG ANNABA RADIO	ALG	007E45 36N54	500	CP	100HA1A			ND			0000 2359	
2137				ALG ANNABA RADIO	ALG	007E45 36N54	500	CP	100HA1A			ND			0000 2359	
2164				ALG ANNABA RADIO	ALG	007E45 36N54	400	CP	304HF1B			ND			0000 2359	
2722				ALG ARZEW RADIO	ALG	000W17 35N50	100		2K80J3E			ND			0000 2359	
2716				ALG AZZEFOUN RADIO	ALG	004E25 36N51	100		2K80J3E			ND			0000 2359	
2152				ALG BEJAIA RADIO	ALG	005E05 36N45	500	CP	304HF1B			ND			0000 2359	
2155				ALG BEJAIA RADIO	ALG	005E05 36N45	400	CP	304HF1B			ND			0000 2359	
2158				ALG BEJAIA RADIO	ALG	005E05 36N45	500	CP	304HF1B			ND			0000 2359	
2185				ALG BEJAIA RADIO	ALG	005E05 36N45	400	CP	2K80J3E			ND			0000 2359	
2186				ALG BEJAIA RADIO	ALG	005E05 36N45	400	CP	2K80J3E			ND			0000 2359	
2710				ALG BENI SAF RADIO	ALG	001W24 35N11	100		2K80J3E			ND			0000 2359	
2713				ALG CHERCHELL RADIO	ALG	002E09 36N32	100		2K80J3E			ND			0000 2359	
2718				ALG COLLO RADIO	ALG	006E36 37N00	100		2K80J3E			ND			0000 2359	
2715				ALG DELLYS RADIO	ALG	003E56 36N53	100		2K80J3E			ND			0000 2359	
2717				ALG JIJEL	ALG	005E16 36N40	100		2K80J3E			ND			0000 2359	
2712				ALG MOSTAGANEM RADIO	ALG	000E05 35N54	100		2K80J3E			ND			0000 2359	
2714				ALG TIPAZA RADIO	ALG	002E27 36N33	100		2K80J3E			ND			0000 2359	
2196				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2197				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2206				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2207				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2210				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2211				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	2K80J3E			ND			0000 2359	
2222				BEL ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	304HF1B			ND			0000 2359	
2198				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2199				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2202				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2203				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2204				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2205				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2208				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2209				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2212				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2213				BEL OOSTENDE RADIO	BEL	002E48 51N11	400	CP	2K80J3E			ND			0000 2359	
2219				BEL OOSTENDE RADIO	BEL	002E48 51N11	300	CP	304HF1B			ND			0000 2359	
2776				BEN COTONOU	BEN	002E28 06N22	500	CP	100HA1A			ND			0800 2200	
2777				BEN COTONOU	BEN	002E28 06N22	300	CP	100HA1A			ND			0800 2359	
2231				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0600 1900	
2232				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0600 1900	
2233				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0600 1900	
2234				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0000 2359	
2235				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0000 2359	
2236				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0000 2359	
2237				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0000 2359	
2238				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0000 2359	
2239				COG POINTE NOIRE RADIO	COG	011E52 04S47	500	CP	304HF1B			ND			0000 2359	
2862				COG POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	304HF1B			ND			0000 2359	
2864				COG POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	2K80J3E			ND			0000 2359	
1780				D FLENSBURG	D	009E41 54N48	400	CO	2K80J3E			ND			0000 2359	
1770				D KIEL RADIO	D	010E08 54N26	400	CP	2K80J3E			ND			0000 2359	
1765				D NORDDEICH RADIO	D	007E12 53N38	400	CP	2K80J3E			ND			0000 2359	
1766				D NORDDEICH RADIO	D	007E12 53N38	400	CP	2K80J3E			ND			0000 2359	
1767				D NORDDEICH RADIO	D	007E12 53N38	400	CP	2K80J3E			ND			0000 2359	
1768				D NORDDEICH RADIO	D	007E12 53N38	400	CP	2K80J3E			ND			0000 2359	
1769				D NORDDEICH RADIO	D	007E12 53N38	400	CP	2K80J3E			ND			0000 2359	
1772				D NORDDEICH RADIO	D	007E12 53N38	400	CP	304HF1B			ND			0000 2359	
1782				D WILHELMSHAVEN	D	007E37 53N41	400	CO	2K80J3E			ND			0000 2359	
342				DDR RUEGEN	DDR	013E37 54N35	400	CP	304HF1B			ND			0000 2359	
347				DDR RUEGEN	DDR	013E37 54N35	400	CP	304HF1B			ND			0000 2359	
352				DDR RUEGEN	DDR	013E37 54N35	400	CP	2K80J3E			ND			0000 2359	
353				DDR RUEGEN	DDR	013E37 54N35	400	CP	304HF1B			ND			0000 2359	
2800				DJI DJIBOUTI	DJI	043E08 11N36	500	CO	100HA1A			ND			0000 2359	
2040				DNK BLAAVAND	DNK	008E07 55N33	350	CP	304HF1B			ND			0000 2359	
2041				DNK BLAAVAND	DNK	008E07 55N33	350	CP	304HF1B			ND			0000 2359	
2060				DNK BLAAVAND	DNK	008E07 55N33	350	CP	2K80J3E			ND			0000 2359	
2051				DNK ROENNE	DNK	015E07 55N03	350	CP	2K80J3E			ND			0000 2359	
466				E CHIPIONA RADIO	E	006W25 36N42	370	CP	2K80J3E			ND			0000 2359	
2700				E SADA	E	008W15 43N21	400	CP	2K80J3E			ND			0000 2359	
2698				E SANCTI PETRI	E	006W13 36N23	370	CV	2K80J3E			ND			0000 2359	
2688				E VIGO	E	008W44 42N14	370	CP	2K80J3E			ND			0000 2359	
2555				EGY ALEXANDRIA RADIO	EGY	029E52 31N12	500	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2556			EGY	KOSSEIR RADIO	EGY	034E17 26N06	500	CP	304HF1B			ND			0400 2200	
1838			F	AJACCIO	F	008E46 41N56	400	CO	2K80J3E			ND			0000 2359	
1839			F	AJACCIO	F	008E46 41N56	400	CO	2K80J3E			ND			0000 2359	
1885			F	ARCACHON	F	001W10 44N39	400	CP	2K80J3E			ND			0000 2359	
1842			F	BAYONNE	F	001W24 43N16	300	CO	2K80J3E			ND			0000 2359	
1895			F	BOULOGNE MER	F	001E38 50N43	400	CP	2K80J3E			ND			0000 2359	
1844			F	BREST	F	004W14 48N26	350	CO	2K80J3E			ND			0000 2359	
1845			F	BREST	F	004W14 48N26	350	CO	2K80J3E			ND			0000 2359	
1847			F	CHERBOURG	F	001W37 49N35	350	CO	2K80J3E			ND			0000 2359	
1848			F	CHERBOURG	F	001W37 49N35	350	CO	2K80J3E			ND			0000 2359	
1850			F	DUNKERQUE	F	002E20 51N03	150	CO	2K80J3E			ND			0000 2359	
1892			F	GRASSE	F	006E55 43N40	400	CP	2K80J3E			ND			0000 2359	
1852			F	LA PALLICE	F	000W59 45N56	300	CO	2K80J3E			ND			0000 2359	
1870			F	LE CONQUET	F	004W44 48N20	400	CP	2K80J3E			ND			0000 2359	
1871			F	LE CONQUET	F	004W44 48N20	400	CP	2K80J3E			ND			0000 2359	
1854			F	LE HAVRE	F	000E06 49N29	350	CO	2K80J3E			ND			0000 2359	
1856			F	LORIENT	F	003W27 47N44	300	CO	2K80J3E			ND			0000 2359	
1857			F	LORIENT	F	003W27 47N44	300	CO	2K80J3E			ND			0000 2359	
1859			F	MARSEILLE	F	005E21 43N14	400	CO	2K80J3E			ND			0000 2359	
1886			F	MARSEILLE	F	005E21 43N19	400	CP	2K80J3E			ND			0000 2359	
1887			F	MARSEILLE	F	005E21 43N19	400	CP	2K80J3E			ND			0000 2359	
1875			F	S MALO	F	002W02 48N38	400	CP	2K80J3E			ND			0000 2359	
1882			F	S NAZAIRE	F	002W06 47N20	400	CP	2K80J3E			ND			0000 2359	
1861			F	SETE	F	003E41 43N24	400	CO	2K80J3E			ND			0000 2359	
1862			F	TOULON	F	006E04 43N08	400	CO	2K80J3E			ND			0000 2359	
1863			F	TOULON	F	006E04 43N08	400	CO	2K80J3E			ND			0000 2359	
1864			F	TOULON	F	006E04 43N08	400	CO	2K80J3E			ND			0000 2359	
413			FNL	MARIEHAMN	FNL	019E57 60N07	300	CP	2K80J3E			ND			0000 2359	
414			FNL	MARIEHAMN	FNL	019E57 60N07	300	CP	2K80J3E			ND			0000 2359	
295			G	ABERDEEN COASTGUARD	G	002W03 57N08	360	OT	2K80J3E			ND			0000 2359	
236			G	CAPE WRATH LTSN	G	005W00 58N38	150	OT	2K80J3E			ND			0000 2359	
300			G	DOVER COASTGUARD	G	001E22 51N10	180	OT	2K80J3E			ND			0000 2359	
245			G	FALLS LSTN	G	001E48 51N18	150	OT	2K80J3E			ND			0000 2359	
308			G	HARTLAND COASTGUARD	G	004W28 50N59	180	OT	2K80J3E			ND			0000 2359	
309			G	HOLYHEAD COASTGUARD	G	004W38 53N19	180	OT	2K80J3E			ND			0000 2359	
310			G	HUMBER COASTGUARD	G	000W06 54N07	180	OT	2K80J3E			ND			0000 2359	
145			G	HUMBER RADIO	G	000E17 53N20	160	CP	2K80J3E			ND			0000 2359	
313			G	LANDS END COASTGUARD	G	005W41 50N02	360	OT	2K80J3E			ND			0000 2359	
254			G	LANGNESS LTSN	G	004W37 54N04	150	OT	2K80J3E			ND			0000 2359	
314			G	LIVERPOOL COASTGUARD	G	003W03 53N30	180	OT	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
317			G	MILFORD HAVEN CGUARD	G	005W16 51N41	180	OT	2K80J3E			ND			0000 2359	
152			G	MILLTOWN	G	003W14 57N40	275	CO	2K80J3E			ND			0000 2359	
153			G	MILLTOWN	G	003W14 57N40	275	CO	2K80J3E			ND			0000 2359	
154			G	MILLTOWN	G	003W14 57N40	275	CO	2K80J3E			ND			0000 2359	
321			G	PORTLAND COASTGUARD	G	002W25 50N33	180	OT	2K80J3E			ND			0000 2359	
324			G	SHETLAND COASTGUARD	G	001W08 60N09	360	OT	2K80J3E			ND			0000 2359	
165			G	ST EVAL	G	005W00 50N28	275	CO	2K80J3E			ND			0000 2359	
166			G	ST EVAL	G	005W00 50N28	275	CO	2K80J3E			ND			0000 2359	
167			G	ST EVAL	G	005W00 50N28	275	CO	2K80J3E			ND			0000 2359	
168			G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	2K80J3E			ND			0000 2359	
329			G	SWANSEA COASTGUARD	G	003W58 51N34	180	OT	2K80J3E			ND			0000 2359	
330			G	THAMES COASTGUARD	G	001E17 51N51	180	OT	2K80J3E			ND			0000 2359	
331			G	TYNE TEES COASTGUARD	G	001W33 55N19	360	OT	2K80J3E			ND			0000 2359	
56			G	GIBRALTAR	GIB	005W21 36N07	200	CP	2K80J3E			ND			0000 2359	
913			I	ANCONA	I	013E28 43N36	500	CP	304HF1B			ND			0000 2359	
723			I	ANCONA RADIO	I	013E28 43N36	200	CP	2K80J3E			ND			0000 2359	
729			I	AUGUSTA RADIO	I	015E13 37N13	200	CP	2K80J3E			ND			0000 2359	
736			I	BARI RADIO	I	016E59 41N05	200	CP	2K80J3E			ND			0000 2359	
737			I	BARI RADIO	I	016E59 41N05	200	CP	2K80J3E			ND			0000 2359	
743			I	CAGLIARI RADIO	I	009E07 39N15	200	CP	2K80J3E			ND			0000 2359	
746			I	CAGLIARI RADIO	I	009E07 39N15	200	CP	2K80J3E			ND			0000 2359	
714			I	LA MADDALENA	I	009E20 41N13	220	CO	2K80J3E			ND			0000 2359	
771			I	LIVORNO RADIO	I	010E11 43N29	200	CP	2K80J3E			ND			0000 2359	
774			I	MAZARA VALLO RADIO	I	012E34 37N38	400	CP	2K80J3E			ND			0000 2359	
778			I	MAZARA VALLO RADIO	I	012E34 37N38	200	CP	2K80J3E			ND			0000 2359	
785			I	MESSINA RADIO	I	015E33 38N11	200	CP	2K80J3E			ND			0000 2359	
788			I	NAPOLI RADIO	I	014E14 40N50	200	CP	2K80J3E			ND			0000 2359	
790			I	NAPOLI RADIO	I	014E14 40N50	400	CP	2K80J3E			ND			0000 2359	
803			I	PORTO TORRES RADIO	I	008E23 40N50	200	CP	2K80J3E			ND			0000 2359	
652			I	ROMA	I	012E22 41N59	380	CO	304HF1B			ND			0000 2359	
653			I	ROMA	I	012E22 41N59	380	CO	304HF1B			ND			0000 2359	
675			I	ROMA	I	012E31 41N48	250	CP	304HF1B			ND			0000 2359	
677			I	ROMA	I	012E31 41N48	250	CP	304HF1B			ND			0000 2359	
678			I	ROMA	I	012E31 41N48	250	CP	304HF1B			ND			0000 2359	
683			I	ROMA	I	012E22 41N59	400	CO	304HF1B			ND			0000 2359	
807			I	S BENEDETTO TRONTO	I	013E52 42N57	200	CP	2K80J3E			ND			0000 2359	
809			I	S BENEDETTO TRONTO	I	013E52 42N57	200	CP	2K80J3E			ND			0000 2359	
713			I	TARANTO	I	017E25 40N26	220	CO	2K80J3E			ND			0000 2359	
812			I	TRAPANI RADIO	I	012E30 38N01	200	CP	2K80J3E			ND			0000 2359	
818			I	TRAPANI RADIO	I	012E30 38N01	400	CP	2K80J3E			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2078				ISL HORNAFJOERDUR RADIO	ISL	015W13 64N15	400	CP	2K80J3E			ND			0000 2359	
2460				ISR ELAT RADIO	ISR	034E56 29N30	400	CP	2K80J3E			ND			0000 2359	
2287				ISR HAIFA RADIO	ISR	035E00 32N48	400	CP	2K80J3E			ND			0000 2359	
2289				ISR HAIFA RADIO	ISR	035E00 32N48	400	CP	2K80J3E			ND			0000 2359	
2818				KWT HUBAN	KWT	047E41 29N31	400	CP	2K80J3E			ND			0300 2100	
2838				LBN BEYROUTH KHALD	LBN	035E29 33N48	400	CP	2K80J3E			ND			0000 2359	
2422				MLT XLOKK RADIO	MLT	014E32 35N49	400	CP	2K80J3E			ND			0000 2359	
2571				MRC AGADIR RADIO	MRC	009W33 30N22	400	CP	304HF1B			ND				
2545				MRC MDIQ RADIO	MRC	005W20 35N40	100	CP	304HF1B			ND			0000 2359	
1714				NOR BERGEN	NOR	005E22 60N25	370	CP	2K80J3E			ND			0800 1800	
1715				NOR BERGEN	NOR	005E22 60N25	370	CP	2K80J3E			ND			0800 1800	
1721				NOR FARSUND	NOR	006E45 58N04	370	CP	2K80J3E			ND			0800 1800	
1722				NOR FARSUND	NOR	006E45 58N04	370	CP	2K80J3E			ND			0800 1800	
1723				NOR FARSUND	NOR	007E59 58N04	370	CP	2K80J3E			ND			0800 1800	
1691				NOR FLOROE	NOR	005E00 61N36	370	CP	2K80J3E			ND			0000 2359	
1716				NOR FLOROE	NOR	005E00 61N36	370	CP	2K80J3E			ND			0800 1800	
1719				NOR FLOROE	NOR	005E00 61N36	370	CP	2K80J3E			ND			0800 1800	
1724				NOR ROGALAND	NOR	005E34 58N48	180	CP	2K80J3E			ND			0800 1800	
1725				NOR ROGALAND	NOR	005E34 58N48	180	CP	2K80J3E			ND			0800 1800	
1726				NOR ROGALAND	NOR	005E34 58N48	180	CP	2K80J3E			ND			0800 1800	
1727				NOR ROGALAND	NOR	005E05 59N26	180	CP	2K80J3E			ND			0800 1800	
2294				POL DABKI	POL	016E19 54N23	400	OT	2K80J3E			ND			0000 2359	
2296				POL DARLOWO	POL	016E25 54N24	400	CV	2K80J3E			ND			0000 2359	
2299				POL GDANSK	POL	018E40 54N22	400	CV	2K80J3E			ND			0000 2359	
2307				POL IZBICA	POL	017E25 54N41	400	OT	2K80J3E			ND			0000 2359	
2308				POL JAROSLAWIEC	POL	016E34 54N33	400	OT	2K80J3E			ND			0000 2359	
2309				POL KARWIA	POL	018E14 54N50	400	OT	2K80J3E			ND			0000 2359	
2312				POL KOLOBRZEG	POL	015E33 54N10	350	CV	2K80J3E			ND			0000 2359	
2314				POL KRYNICA MORSKA	POL	019E26 54N23	400	OT	2K80J3E			ND			0000 2359	
2316				POL LAZY	POL	016E12 54N18	400	OT	2K80J3E			ND			0000 2359	
2323				POL MRZEZYNO	POL	015E19 54N09	400	OT	2K80J3E			ND			0000 2359	
2329				POL SOBIESZEWO	POL	018E51 54N21	400	OT	2K80J3E			ND			0000 2359	
2336				POL SWINOUJSCIE	POL	014E15 53N52	400	CR	2K80J3E			ND			0000 2359	
2344				POL USTKA	POL	016E52 54N34	350	CV	2K80J3E			ND			0000 2359	
2824				SRL FREETOWN	SRL	013W15 08N29	500	CP	100HA1A			ND			0700 2359	
2406				TUN BIZERTE RADIO	TUN	009E53 37N16	400	CP	2K80J3E			ND			0600 1900	
2407				TUN BIZERTE RADIO	TUN	009E53 37N16	400	CP	2K80J3E			ND			0600 1900	
2408				TUN BIZERTE RADIO	TUN	009E53 37N16	400	CP	2K80J3E			ND			0600 1900	
2741				TUN BIZERTE RADIO	TUN	009E53 37N16	300	CP	2K80J3E			ND			0600 1900	
2743				TUN BIZERTE RADIO	TUN	009E53 37N16	300	CP	2K80J3E			ND			0600 1900	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
2877				TUN C BLANC	TUN	009E50 37N20	50	CO	2K80J3E			ND			0000 2359	
2748				TUN GABES RADIO	TUN	007E45 33N53	300	CP	2K80J3E			ND			0600 1900	
2749				TUN GABES RADIO	TUN	007E45 33N53	300	CP	2K80J3E			ND			0600 1900	
2394				TUN KELIBIA RADIO	TUN	008E46 36N50	400	CP	2K80J3E			ND			0600 1900	
2740				TUN KELIBIA RADIO	TUN	008E46 36N50	300	CP	100HA1A			ND			0600 1900	
2742				TUN KELIBIA RADIO	TUN	008E46 36N50	300	CP	2K80J3E			ND			0600 1900	
2744				TUN KELIBIA RADIO	TUN	008E46 36N50	300	CP	2K80J3E			ND			0600 1900	
2881				TUN LA GOULETTE	TUN	010E11 36N48	200	CO	2K80J3E			ND			0000 2359	
2395				TUN MAHDIA RADIO	TUN	011E04 35N30	400	CP	2K80J3E			ND			0600 1900	
2746				TUN MAHDIA RADIO	TUN	011E04 35N30	300	CP	2K80J3E			ND			0600 1900	
2747				TUN MAHDIA RADIO	TUN	011E04 35N30	300	CP	2K80J3E			ND			0600 1900	
2752				TUN MAHDIA RADIO	TUN	011E04 35N30	300	CP	2K80J3E			ND			0600 1900	
2754				TUN MAHDIA RADIO	TUN	011E04 35N30	300	CP	2K80J3E			ND			0600 1900	
2397				TUN MAHDIA RADIO PORT	TUN	011E04 35N30	400	CR	2K80J3E			ND			0600 1900	
2878				TUN SFAX	TUN	010E46 34N44	50	CO	2K80J3E			ND			0000 2359	
2402				TUN SFAX RADIO	TUN	010E44 34N44	400	CP	2K80J3E			ND			0600 2359	
2403				TUN SFAX RADIO	TUN	010E44 34N44	400	CP	2K80J3E			ND			0600 2359	
2760				TUN SFAX RADIO	TUN	010E44 34N44	300	CP	2K80J3E			ND			0600 2359	
2761				TUN SFAX RADIO	TUN	010E44 34N44	300	CP	2K80J3E			ND			0600 2359	
2763				TUN SFAX RADIO	TUN	010E44 34N44	300	CP	2K80J3E			ND			0600 2359	
2765				TUN SFAX RADIO	TUN	010E44 34N44	300	CP	2K80J3E			ND			0600 2359	
2879				TUN SOUSSE	TUN	010E38 35N49	200	CO	2K80J3E			ND			0000 2359	
2411				TUN TABARKA RADIO	TUN	006E25 36N57	400	CP	2K80J3E			ND			0600 1900	
2753				TUN TABARKA RADIO	TUN	006E25 36N57	300	CP	2K80J3E			ND			0600 1900	
2756				TUN TABARKA RADIO	TUN	006E25 36N57	300	CP	2K80J3E			ND			0600 1900	
2418				TUN TUNIS RADIO	TUN	010E11 36N53	400	CP	2K80J3E			ND			0000 2359	
2685				TUN TUNIS RADIO	TUN	010E11 36N53	400	CP	2K80J3E							
2767				TUN TUNIS RADIO	TUN	010E11 36N53	300	CP	2K80J3E			ND			0000 2359	
2768				TUN TUNIS RADIO	TUN	010E11 36N53	300	CP	304HF1B			ND			0000 2359	
2769				TUN TUNIS RADIO	TUN	010E11 36N53	300	CP	2K80J3E			ND			0000 2359	
2770				TUN TUNIS RADIO	TUN	010E11 36N53	300	CP	2K80J3E			ND			0000 2359	
2417				TUN TUNIS RADIO PORT	TUN	010E11 36N53	400	CR	2K80J3E			ND			0000 2359	
937				URS IALTA	UKR	034E10 44N39	200	CP	100HA1A			ND			0000 2359	
1030				URS IZMAIL	UKR	028E51 45N20	350	CO	304HF1B			ND			0000 2359	
1073				URS JDANOV	UKR	037E31 47N08	350	CO	304HF1B			ND			0000 2359	
923				URS KERTCH	UKR	036E28 45N22	350	CO	304HF1B			ND			0000 2359	
924				URS KERTCH	UKR	036E28 45N22	350	CO	100HA1A			ND			0000 2359	
928				URS KERTCH	UKR	036E28 45N22	200	CP	304HF1B			ND			0000 2359	
929				URS KERTCH	UKR	036E28 45N22	200	CP	100HA1A			ND			0000 2359	
930				URS KERTCH	UKR	036E28 45N22	200	CP	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
931				URS KERTCH	UKR	036E28 45N22	200	CP	100HA1A			ND			0000 2359	
1044				URS KERTCH	UKR	036E28 45N22	200	CO	100HA1A			ND			0000 2359	
1045				URS KERTCH	UKR	036E28 45N22	200	CO	304HF1B			ND			0000 2359	
1048				URS KERTCH	UKR	036E28 45N22	200	CO	304HF1B			ND			0000 2359	
1049				URS KERTCH	UKR	036E28 45N22	200	CO	100HA1A			ND			0000 2359	
983				URS KHERSON	UKR	032E34 46N39	200	CO	304HF1B			ND			0000 2359	
984				URS KHERSON	UKR	032E34 46N39	200	CO	100HA1A			ND			0000 2359	
1036				URS KILIIA	UKR	029E15 45N26	200	CP	304HF1B			ND			0000 2359	
1037				URS KILIIA	UKR	029E15 45N26	200	CP	100HA1A			ND			0000 2359	
970				URS NIKOLAEV	UKR	032E00 46N57	200	CO	304HF1B			ND			0000 2359	
971				URS NIKOLAEV	UKR	032E00 46N57	200	CO	100HA1A			ND			0000 2359	
1008				URS ODESSA	UKR	030E45 46N29	400	CP	2K80J3E			ND			0000 2359	
1020				URS RENI	UKR	028E18 45N29	200	CO	304HF1B			ND			0000 2359	
1021				URS RENI	UKR	028E18 45N29	200	CO	100HA1A			ND			0000 2359	
954				URS SEVASTOPOL	UKR	033E32 44N34	350	OT	304HF1B			ND			0000 2359	
955				URS SEVASTOPOL	UKR	033E32 44N34	350	OT	100HA1A			ND			0000 2359	
960				URS SEVASTOPOL	UKR	033E32 44N34	200	CO	304HF1B			ND			0000 2359	
961				URS SEVASTOPOL	UKR	033E32 44N34	200	CO	100HA1A			ND			0000 2359	
987				URS SKADOVSK	UKR	032E56 46N07	200	CO	304HF1B			ND			0000 2359	
988				URS SKADOVSK	UKR	032E56 46N07	200	CO	100HA1A			ND			0000 2359	
977				URS TCHERNOMORSKOE	UKR	032E43 45N30	200	CO	304HF1B			ND			0000 2359	
978				URS TCHERNOMORSKOE	UKR	032E43 45N30	200	CO	100HA1A			ND			0000 2359	
1184				URS ASTRAKHAN	URS	047E42 46N55	350	CO	100HA1A			ND			0000 2359	
1185				URS ASTRAKHAN	URS	047E42 46N55	350	CO	304HF1B			ND			0000 2359	
1100				URS BAKU	URS	049E45 40N20	400	CO	2K80J3E			ND			0000 2359	
1199				URS EISK	URS	038E15 46N41	200	CO	304HF1B			ND			0000 2359	
1200				URS EISK	URS	038E15 46N41	200	CO	100HA1A			ND			0000 2359	
1136				URS GELENDJIK	URS	038E06 44N35	400	CO	2K80J3E			ND			0000 2359	
1260				URS GURIEV	URS	051E55 47N03	200	CP	304HF1B			ND			0000 2359	
1522				URS HAAPSALU	URS	023E21 58N34	400	CO	2K80J3E			ND			0000 2359	
1107				URS KALININGRAD	URS	020E30 54N45	400	OT	2K80J3E			ND			0000 2359	
1418				URS KALININGRAD	URS	020E30 54N45	400	CO	2K80J3E			ND			0000 2359	
1424				URS KALININGRAD	URS	020E30 54N45	350	CO	304HF1B			ND			0000 2359	
1425				URS KALININGRAD	URS	020E30 54N45	350	CO	100HA1A			ND			0000 2359	
1433				URS KALININGRAD	URS	020E30 54N45	400	CP	2K80J3E			ND			0000 2359	
1434				URS KALININGRAD	URS	020E30 54N45	400	CO	2K80J3E			ND			0000 2359	
1381				URS KLAIPEDA	URS	021E12 55N46	350	CP	304HF1B			ND			0000 2359	
1382				URS KLAIPEDA	URS	021E12 55N46	350	CP	100HA1A			ND			0000 2359	
1560				URS KLAIPEDA	URS	021E12 55N46	400	CO	2K80J3E			ND			0000 2359	
1563				URS KLAIPEDA	URS	021E12 55N46	200	CO	304HF1B			ND			0000 2359	

0	1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1577			URS	KLAIPEDA	URS	021E12 55N46	200	CP	100HA1A			ND			0000 2359	
1098			URS	MUMRA	URS	047E41 45N45	400	CO	2K80J3E			ND			0000 2359	
1447			URS	NARVA-IESSU	URS	028E12 59N22	400	CO	2K80J3E			ND			0000 2359	
1142			URS	NOVOROSSIISK	URS	037E42 44N42	350	OT	304HF1B			ND			0000 2359	
1143			URS	NOVOROSSIISK	URS	037E42 44N42	350	OT	100HA1A			ND			0000 2359	
1469			URS	PIARNU	URS	024E33 58N23	400	CO	2K80J3E			ND			0000 2359	
1470			URS	PIARNU	URS	024E33 58N23	400	CO	2K80J3E			ND			0000 2359	
1134			URS	SOTCHI	URS	039E45 43N36	200	CP	304HF1B			ND			0000 2359	
1135			URS	SOTCHI	URS	039E45 43N36	200	CP	100HA1A			ND			0000 2359	
1296			URS	TAGANROG	URS	038E53 47N13	200	OT	304HF1B			ND			0000 2359	
1297			URS	TAGANROG	URS	038E53 47N13	200	OT	100HA1A			ND			0000 2359	
1542			URS	TALLIN	URS	024E46 59N24	350	CO	304HF1B			ND			0000 2359	
1548			URS	TALLIN	URS	024E46 59N24	350	CP	304HF1B			ND			0000 2359	
1549			URS	TALLIN	URS	024E46 59N24	350	CP	100HA1A			ND			0000 2359	
1437			URS	TARAN	URS	019E59 54N58	400	CO	2K80J3E			ND			0000 2359	
1438			URS	TARAN	URS	019E59 54N58	200	CO	304HF1B			ND			0000 2359	
1439			URS	TARAN	URS	019E59 54N58	200	CO	100HA1A			ND			0000 2359	
1168			URS	TEMRIUK	URS	037E24 45N17	200	CO	100HA1A			ND			0000 2359	
1169			URS	TEMRIUK	URS	037E24 45N17	200	CO	304HF1B			ND			0000 2359	
1374			URS	UMBA	URS	034E22 66N41	200	CO	304HF1B			ND			0000 2359	
1375			URS	UMBA	URS	034E22 66N41	200	CO	100HA1A			ND			0000 2359	
1412			URS	VENTSPILS	URS	021E32 57N24	400	CO	2K80J3E			ND			0000 2359	
1163			URS	VILKOVO	URS	029E36 45N25	200	CO	304HF1B			ND			0000 2359	
1164			URS	VILKOVO	URS	029E36 45N25	200	CO	100HA1A			ND			0000 2359	

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Document 138-F/E/S
12 mars 1985
Original: français
anglais
espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

SERVICE DE RADIONAVIGATION AERONAUTIQUE (RADIOPHARES)
DE LA REGION 1 DANS LES BANDES 415 - 435 kHz et 510 - 526,5 kHz

Liste des besoins non satisfaits

AERONAUTICAL RADIONAVIGATION SERVICE (RADIOBEACONS)
IN REGION 1 IN THE BANDS 415 - 435 kHz and 510 - 526.5 kHz

List of non-satisfied requirements

SERVICIO DE RADIONAVEGACION AERONAUTICA (RADIOFAROS)
DE LA REGION 1 EN LAS BANDAS 415 - 435 kHz y 510 - 526,5 kHz

Lista de necesidades non satisfechas

Annexe/Annex/Anexo: 1

Pour des raisons d'économie, ce document n'a été tiré qu'en un nombre restreint d'exemplaires. Les participants sont donc priés de bien vouloir apporter à la réunion leurs documents avec eux, car il n'y aura pas d'exemplaires supplémentaires disponibles.

Renseignements inclus dans les colonnes de la liste des besoins non satisfaits pour le service de radionavigation aéronautique (radiophares) de la Région 1 dans les bandes 415 - 435 kHz et 510 - 526,5 kHz

Colonne

0. Numéro de serie de l'IFRB

1. Fréquence assignée (kHz)

2. Numéro de voie

3. Symbole désignant le pays

4. Nom de la station d'émission

5. Symbole désignant la zone géographique où la station est située (voir le Tableau 1 de la préface à la Liste internationale des fréquences)

6. Longitude et latitude de la station d'émission (degrés et minutes)

7. Rayon (km) de la zone de service circulaire

8. Nature du service

9. Largeur de bande nécessaire et classe d'émission

10. Puissance apparente rayonnée nécessaire sur une antenne verticale courte (p.a.r.v.) (dBW)

    (valeur calculée sur la base du champ minimum à protéger et de la portée de service dans les conditions de propagation par onde de sol)

11. Caractéristiques de l'antenne (ND)

12. Horaire normal (UTC) de fonctionnement de l'assignation de fréquence

13. Observations

Information included in the columns of the list of non-satisfied requirements for the aeronautical radionavigation service (radiobeacons) in Region 1 in the bands 415 - 435 kHz and 510 - 526.5 kHz

Column

0. IFRB serial number

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of geographical area where the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (degrees and minutes) of the transmitting station

7. Radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and necessary class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)

    (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

Informaciones incluidas en las columnas de la lista de necesidades no satisfechas para el servicio de radionavegación aeronáutica (radiofaros) de la Región 1 en las bandas 415 - 435 kHz y 510 - 526,5 kHz

Columna

0. Número de serie de la IFRB

1. Frecuencia asignada (kHz)

2. Número de canal

3. Símbolo del país

4. Nombre de la estación transmisora

5. Símbolo de la zona geográfica donde está situada la estación (véase el Cuadro 1 del Prefacio a la Lista Internacional de Frecuencias)

6. Longitud y latitud de la estación transmisora (grados y minutos)

7. Radio (km) de la zona de servicio circular

8. Naturaleza del servicio

9. Anchura de banda necesaria y clase de emisión necesaria

10. Potencia radiada aparente referida a una antena vertical corta p.r.a.v. (dBW)

    (valor calculado sobre la base de la intensidad de campo mínima que se debe proteger y del alcance de servicio para condiciones de propagación por onda de superficie)

11. Características de la antena (ND)

12. Horas normales de funcionamiento (UTC) de la asignación de frecuencia

13. Observaciones

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50718				AFS SOEKOR	AFS	E S	40	RC	2K14A2A		ND	0000 2359	
50719				AFS SOEKOR	AFS	E S	40	RC	2K14A2A		ND	0000 2359	
50717				AFS VEREENIGING	AFS	027E57 26S32	50	RC	2K14A2A		ND	0000 2359	
50705				AFS WELCOM	AFS	026E42 27S58	185	RC	2K14A2A		ND	0000 2359	
50929				ALG ALGER	ALG	003E18 36N40	100	RC	2K14A2A		ND	0000 2359	
50505				ALG ANNABA	ALG	007E47 36N50	100	RC	2K14A2A		ND	0000 2359	
50526				ALG BATNA	ALG	006E09 35N32	100	RC	2K14A2A		ND	0000 2359	
50522				ALG BECHAR	ALG	002W14 31N38	300	RC	2K14A2A		ND	0000 2359	
50534				ALG BEJAIA	ALG	005E02 36N43	100	RC	2K14A2A		ND	0000 2359	
50513				ALG BISKRA	ALG	005E44 34N48	200	RC	2K14A2A		ND	0000 2359	
50518				ALG BORDJ OMAR DOUSS	ALG	006E50 28N08	100	RC	2K14A2A		ND	0000 2359	
50944				ALG BOUSAADA	ALG	004E12 35N20	100	RC	2K14A2A		ND	0000 2359	
50956				ALG CONSTANTINE	ALG	006E47 36N11	100	RC	2K14A2A		ND	0000 2359	
50946				ALG EL BAYADH	ALG	001E01 33N41	100	RC	2K14A2A		ND	0000 2359	
50520				ALG EL OUED	ALG	006E47 33N30	100	RC	2K14A2A		ND	0000 2359	
50941				ALG EL OUED	ALG	006E47 33N30	100	RC	2K14A2A		ND	0000 2359	
50516				ALG HASSI EL KHEBI	ALG	005W16 29N11	200	RC	2K14A2A		ND	0000 2359	
51018				ALG IN AMENAS	ALG	009E37 28N03	100	RC	2K14A2A		ND	0000 2359	
51011				ALG IN SALAH	ALG	002E31 27N15	100	RC	2K14A2A		ND	0000 2359	
50511				ALG JIJEL	ALG	005E52 36N48	100	RC	2K14A2A		ND	0000 2359	
50979				ALG JIJEL	ALG	005E52 36N48	100	RC	2K14A2A		ND	0000 2359	
50517				ALG MASCARA	ALG	000E11 35N13	100	RC	2K14A2A		ND	0000 2359	
50508				ALG ORAN ES SENIA	ALG	000W38 35N39	300	RC	2K14A2A		ND	0000 2359	
51031				ALG ORAN ES SENIA	ALG	000W38 35N39	100	RC	2K14A2A		ND	0000 2359	
50504				ALG OUARGLA	ALG	005E25 31N56	100	RC	2K14A2A		ND	0000 2359	
50964				ALG OUARGLA	ALG	005E25 31N56	98	RC	2K14A2A		ND	0000 2359	
50948				ALG SETIF	ALG	005E25 36N36	100	RC	2K14A2A		ND	0000 2359	
50531				ALG TEBESSA	ALG	008E03 35N27	100	RC	2K14A2A		ND	0000 2359	
50510				ALG TIARET	ALG	001E28 35N21	100	RC	2K14A2A		ND	0000 2359	
50536				ALG TIMIMOUN	ALG	000E17 29N14	100	RC	2K14A2A		ND	0000 2359	
50515				ALG TOUGGOURT	ALG	006E05 33N03	100	RC	2K14A2A		ND	0000 2359	
50498				ARS SULAYEL	ARS	045E41 20N34	127	RC	850HA2A		ND	0000 2359	
51094				BDI RUYIGI	BDI	030E15 03S29	100	RC	2K14A2A		ND	0000 2359	
50472				BEL SINT TRUIDEN	BEL	005E11 50N46	90	RC	2K14A2A		ND	0000 2359	
51053				BEN COTONOU AEROPORT	BEN	002E25 06N23	50	RC	2K14A2A		ND	0000 2359	
50569				BOT GABARONE	BOT	025E55 24S41	238	RC	2K14A2A		ND	0000 2359	
50570				BOT GABARONE	BOT	025E55 24S41	238	RC	100HN0N		ND	0000 2359	
50490				BUL ROUSSE	BUL	026E00 43N50	48	RC	2K14A2A		ND	0000 2359	
50981				CME BAFOUSSAM	CME	010E25 05N27	200	RC	2K14A2A		ND	0000 2359	
50983				CME BAMENDA	CME	010E07 06N02	150	RC	2K14A2A		ND	0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50996			CME	DOUALA	CME	009E43 04N01	179	RC	2K14A2A			ND 0000 2359	
50957			CME	DSCHANG	CME	010E04 05N27	50	RC	2K14A2A			ND 0000 2359	
50988			CME	GAROUA	CME	013E25 09N20	180	RC	2K14A2A			ND 0000 2359	
51025			CME	KOUSSERI	CME	015E02 12N05	179	RC	2K14A2A			ND 0000 2359	
51013			CME	MINTOM	CME	015E17 02N40	148	RC	2K14A2A			ND 0000 2359	
51019			CME	NKONGSAMBA	CME	009E57 04N57	50	RC	2K14A2A			ND 0000 2359	
51020			CME	NWA	CME	011E05 06N27	100	RC	2K14A2A			ND 0000 2359	
51003			CME	TIBATI	CME	012E37 06N27	50	RC	2K14A2A			ND 0000 2359	
50785			CTI	KORHOGO	CTI	005W38 09N27	200	RC	2K14A2A			ND 0000 2359	
50786			CTI	KORHOGO	CTI	005W38 09N27	200	RC	2K14A2A			ND 0000 2359	
50791			CTI	SASSANDRA	CTI	006W05 04N57	200	RC	2K14A2A			ND 0000 2359	
50857			D	ALFELD	D	011E32 49N25	47	RC	2K14A2A			ND 0000 2359	
50454			D	COLEMAN	D	008E32 49N36	47	RC	2K14A2A			ND 0000 2359	
50430			D	FASSBERG	D	010E11 52N55	92	RC	2K14A2A			ND 0000 2359	
50429			D	NOERVENICH	D	006E40 50N50	64	RC	2K14A2A			ND 0000 2359	
50428			D	ROTHENBACH	D	011E15 49N29	92	RC	2K14A2A			ND 0000 2359	
50458			D	WEILER	D	009E57 49N01	56	RC	2K14A2A			ND 0000 2359	
50020			DDR	HENNI CKENDORF	DDR	013E06 52N10	50	RC	2K14A2A			ND 0000 2359	
50652			DDR	JAKOBSHAGEN	DDR	013E34 53N10	30	RC	2K14A2A			ND 0000 2359	
50644			DDR	LEIPZIG-MOCKAU	DDR	012E17 51N26	20	RC	2K14A2A			ND 0000 2359	
50659			DDR	NEUHAUSEN	DDR	013E28 50N41	78	RC	2K14A2A			ND 0000 2359	
50646			DDR	RIESA	DDR	013E17 51N18	58	RC	2K14A2A			ND 0000 2359	
50653			DDR	ZEHLENDORF	DDR	013E03 51N52	40	RC	2K14A2A			ND 0000 2359	
50378			F	BITCHE	F	007E30 49N02	92	RC	2K14A2A			ND 0000 2359	
50370			F	DAMBLAIN	F	005E39 48N05	92	RC	2K14A2A			ND 0000 2359	
50762			F	LAON COUVRON	F	003E33 49N38	46	RC	2K14A2A			ND 0000 2359	
50373			F	LURE	F	006E32 47N42	96	RC	2K14A2A			ND 0000 2359	
50367			F	MOURMELON	F	004E23 49N07	46	RC	2K14A2A			ND 0000 2359	
50372			F	SISSONNE	F	003E58 49N39	46	RC	2K14A2A			ND 0000 2359	
50376			F	TOUL ROSIERES	F	005E53 48N41	139	RC	2K14A2A			ND 0000 2359	
50345			F	TOULOUSE LABASTIDE	F	001E41 43N29	92	RC	2K14A2A			ND 0000 2359	
50068			FNL	KITTILA	FNL	024E54 67N37	90	RC	2K14A2A			ND 0000 2359	
50093			FNL	PATTIJOKI	FNL	024E42 64N41	48	RC	850HA2A			ND 0000 2359	
50075			FNL	TAMPERE-PIRKKALA	FNL	023E27 61N23	90	RC	2K14A2A			ND 0000 2359	
50076			FNL	TAMPERE-PIRKKALA	FNL	023E40 61N26	50	RC	850HA2A			ND 0000 2359	
50078			FNL	TAMPERE-PIRKKALA	FNL	023E33 61N24	50	RC	850HA2A			ND 0000 2359	
50390			G	BARTON	G	002W27 53N28	46	RC	850HA2A			ND 0000 2359	
50835			G	BOVINGDON	G	000W33 51N44	56	RC	850HA2A			ND 0000 2359	
50397			G	CHILTERN	G	000W31 51N37	46	RC	850HA2A			ND 0000 2359	
50827			G	PLAT PHILLIPS 48/29A	G	001E48 53N01	37	RC	850HA2A			ND 0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50828			G	PLAT PHILLIPS 48/29C	G	001E46 53N06	37	RC	850HA2A			ND 0000 2359	
50822			G	PLATFORM DP6	G	003W31 53N52	37	RC	850HA2A			ND 0000 2359	
50821			G	PLATFORM DP8	G	003W33 53N45	37	RC	850HA2A			ND 0000 2359	
50832			G	PLATFORM SHELL AD	G	002E08 53N05	37	RC	850HA2A			ND 0000 2359	
50831			G	PLATFORM SHELL BD	G	002E11 53N05	37	RC	850HA2A			ND 0000 2359	
50830			G	PLATFORM SHELL CD	G	002E10 53N06	37	RC	850HA2A			ND 0000 2359	
50421			G	PUMP STATION 2	G	000E12 55N17	35	RC	850HA2A			ND 0000 2359	
50624			GAB	LIBREVILLE	GAB	009E26 00N24	500	RC	2K14A2A			ND 0000 2359	
51072			GHA	TAMALE	GHA	000W53 09N26	25	RC	2K14A2A			ND 0000 2359	
50674			GUI	KAMSAR	GUI	015W36 11N40	500		2K14A2A			ND 0000 2359	
50675			GUI	KONAKRY	GUI	013W37 09N30	500		2K14A2A			ND 0000 2359	
50676			GUI	KONAKRY	GUI	013W37 09N30	500		2K14A2A			ND 0000 2359	
50677			GUI	KONAKRY	GUI	013W37 09N30	500		2K14A2A			ND 0000 2359	
50016			HNG	BUDAORS	HNG	018E59 47N27	100	RC	2K14A2A			ND 0000 2359	
50913			HNG	IHAROS	HNG	017E06 46N20	100	RC	2K14A2A			ND 0000 2359	
50013			HNG	NAGYKANIZSA	HNG	016E58 46N26	50	RC	850HA2A			ND 0500 1900	
50920			HNG	SAGVAR	HNG	018E07 46N50	50	RC	2K14A2A			ND 0000 2359	
50014			HNG	SZOLNOK	HNG	020E11 47N08	100	RC	850HA2A			ND 0000 2359	
50012			HNG	ZALAEGERSZEG	HNG	016E52 46N52	50	RC	850HA2A			ND 0500 1900	
50116			HOL	OILRIG	HOL	004E20 53N25	48	RC	2K14A2A			ND 0000 2359	
50901			I	KIOFI	BDI	030E08 04S03	35	RC	2K14A2A			ND 0600 1800	
50471			IRL	MOB 2	IRL	011W00 53N00	90	RC	2K14A2A			ND 0000 2359	
51084			LBY	EL ZAWIA	LBY	012E38 32N46	100	RC	2K14A2A			ND 0000 2359	
50538			MAU	PLAISANCE	MAU	057E41 20S26	500	RC	850HA2A			ND 0000 2359	
50282			MRC	CASABLANCA ANFA	MRC	007W41 33N31	100	RC	2K14A2A			ND 0000 2359	
50283			MRC	CASABLANCA NOUASSER	MRC	007W33 32N17	100	RC	2K14A2A			ND 0000 2359	
50850			MRC	EL JADIDA	MRC	008W40 33N07	150	RC	2K14A2A			ND 0000 2359	
50848			MRC	NADOR	MRC	002W56 35N10	200	RC	2K14A2A			ND 0000 2359	
50844			MRC	OUARZAZATE	MRC	007W00 30N50	150	RC	2K14A2A			ND 0000 2359	
51037			OMA	SALALAH	OMA	054E06 17N01	400	CR	304HF1B			ND 0000 2359	
50572			POL	BELCHATOW	POL	019E20 51N22	74	RC	850HA2A			ND 0000 2359	
50581			POL	MANIECZKI	POL	016E56 52N07	120	RC	850HA2A			ND 0000 2359	
50596			POL	ZAMOSC	POL	023E12 50N42	75	RC	2K14A2A			ND 0000 2359	
50267			POR	SANTA CRUZ	POR	009W22 39N07	50	RC	2K14A2A			ND 0000 2359	
50626			QAT	DOHA	QAT	051E34 25N16	500	RC	2K14A2A			ND 0000 2359	
50627			QAT	DOHA	QAT	051E34 25N16	500	RC	2K14A2A			ND 0000 2359	
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50900			QAT	DOHA	QAT	051E34 25N16	500	RC	2K14A2A			ND 0000 2359	
51036			ROU	ARAD	ROU	021E12 46N11	93	RC	2K14A2A			ND 0000 2359	
50725			ROU	BACAU	ROU	026E55 46N29	93	RC	2K14A2A			ND 0000 2359	

0	1	2	3	4	5	6	7	8	9	10	11	12	13
50732			ROU	BUCURESTI/BANEASA	ROU	026E09 44N31	28	RC	2K14A2A		ND	0000 2359	
50734			ROU	CLUJ-NAPOCA	ROU	023E37 46N47	148	RC	2K14A2A		ND	0000 2359	
50736			ROU	CLUJ-NAPOCA	ROU	023E41 46N47	148	RC	2K14A2A		ND	0000 2359	
50740			ROU	CONSTANTA	ROU	028E29 44N23	148	RC	2K14A2A		ND	0000 2359	
50754			ROU	TIMISOARA	ROU	021E14 45N50	93	RC	2K14A2A		ND	0000 2359	
50757			ROU	TULCEA	ROU	028E42 45N07	93	RC	2K14A2A		ND	0000 2359	
50758			ROU	TULCEA	ROU	028E44 44N59	96	RC	2K14A2A		ND	0000 2359	
50036			S	ARVIKA	S	012E38 59N40	27	RC	850HA2A		ND	0000 2359	
50046			S	LINKOEPING/SAAB	S	015E48 58N23	27	RC	850HA2A		ND	0000 2359	
50048			S	LUDVIKA	S	015E06 60N06	27	RC	850HA2A		ND	0000 2359	
50055			S	VAARGAARDA	S	012E49 58N03	27	RC	850HA2A		ND	0000 2359	
50207			TCH	BRNO-MEDLANKY	TCH	016E35 49N13	90	RC	2K14A2A		ND	0000 2359	
50210			TCH	DESNA	TCH	015E33 48N58	90	RC	2K14A2A		ND	0000 2359	
50211			TCH	FRYDLANT	TCH	015E02 50N54	90	RC	2K14A2A		ND	0000 2359	
50218			TCH	MLADA BOLESLAV	TCH	014E59 50N21	90	RC	2K14A2A		ND	0000 2359	
50886			TCH	PRAHA/NORTH	TCH	014E17 50N06	45	RC	2K14A2A		ND	0000 2359	
50896			TCH	VODOCHODY	TCH	014E29 50N12	90	RC	2K14A2A		ND	0000 2359	
50225			TCH	ZILINA	TCH	018E36 49N14	45	RC	2K14A2A		ND	0000 2359	
50634			TUN	CAP BLANC	TUN	009E50 37N20	60	RC	850HA2A		ND	0000 2359	
50628			TUN	CAP BON PHARE	TUN	011E03 37N04	100	RC	2K14A2A		ND	0000 2359	
51096			TUN	DJEDEIDA	TUN	009E56 36N50	100	RC	850HA2A		ND	0000 2359	
50629			TUN	EL ATTAYA PHARE	TUN	011E18 34N44	60	RC	850HA2A		ND	0000 2359	
50635			TUN	EL BORMA	TUN	009E14 31N42	185	RC	850HA2A		ND	0000 2359	
50641			TUN	GAFSA	TUN	008E48 34N25	60	RC	850HA2A		ND	0000 2359	
50636			TUN	KHARROUBA	TUN	009E49 37N17	45	RC	850HA2A		ND	0000 2359	
50637			TUN	M'SAKEN	TUN	010E37 35N43	45	RC	850HA2A		ND	0000 2359	
50640			TUN	SFAX VILLE	TUN	010E48 34N46	90	RC	850HA2A		ND	0000 2359	
50806			TUR	URFA	TUR	038E45 37N08	74	RC	2K14A2A		ND	0000 2359	
50185			URS	VINNITSA	UKR	028E30 49N15	148	RC	2K14A2A		ND	0000 2359	
50121			URS	RIGA	URS	024E07 56N58	48	RC	2K14A2A		ND	0000 2359	
50157			URS	SMOLENSK	URS	031E43 54N48	148	RC	2K14A2A		ND	0000 2359	
50122			URS	SUKHUMI	URS	041E00 43N00	148	RC	2K14A2A		ND	0000 2359	
50291			YUG	OSIJEK	YUG	018E51 45N27	24	RC	2K14A2A		ND	0000 2359	
50803			YUG	PRISTINA	YUG	021E02 42N36	25	RC	2K14A2A		ND	0000 2359	
50720			ZAI	KILIBA	ZAI		500	RC	2K14A2A		ND	0500 1600	

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 139-E
13 March 1985
Original: English

COMMITTEE 6

SUMMARY RECORD

OF THE

SIXTH MEETING OF COMMITTEE 6

(AGREEMENT AND PROCEDURES)

Saturday, 9 March 1985, at 0900 hrs

Chairman: Mr. S. CHALLO (Kenya)

Subjects discussed:	Documents
1. Consideration of draft Recommendation No. COM 6/D	DT/21
2. Revised texts of technical annexes	88, 98
3. Draft Resolution concerning a procedure to permit compatibility of assignments of the permitted services with the Plan (COM 6/4)	DT/20

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1. Consideration of draft Recommendation No. COM 6/D
(Document DT/21)

1.1 The Chairman invited comments on draft Recommendation No. COM 6/D, relating to the deletion from the Plan of assignments which were no longer required.

1.2 The delegate of the Netherlands wondered why in the operative paragraph there was no follow-up of sub-paragraph ebis) of the Preamble:

("That the Conference identified those of the requirements submitted by administrations which could not be met").

As it stood, sub-paragraph ebis) seemed to have no connection with the rest of the Recommendation.

1.3 The delegate of the Federal Republic of Germany said he had understood that the Committee had already decided that the list of unsatisfied requirements would not be included in the Plan, but would form a separate document to be distributed to all administrations after the Conference.

1.4 The delegate of the USSR proposed that sub-paragraph ebis) be amended to read:

"The Conference was unable to satisfy in the Plan all the requirements submitted by administrations".

1.5 The delegate of the United Kingdom proposed the addition to that text of the phrase ...

"and has identified those requirements which could not be met."

The Recommendation, as thus amended, was approved.

2. Revised texts of technical annexes (Documents 88, 98)

2.1 The Chairman called for comments on Document 98, which incorporated amendments agreed earlier to Document 88.

ANNEX A

It was agreed to delete the footnote to paragraph 1.1 (Designations of emission).

After discussion, it was agreed to delete the values 2.4 and 2.8 in paragraph 1.1.3 and to retain the value 2.7 within square brackets.

2.2 The delegate of the Netherlands, referring to paragraph 2.1, pointed out that the band 505 - 510 kHz was not at present available for the aeronautical radionavigation service; that was something that would have to be decided at the 1987 Conference.

It was agreed to amend paragraph 2.1, and the title of the Annex, accordingly.

ANNEX B

2.3 The delegate of Finland thought that the words "the wanted-to-unwanted signal ratio at any point of the service area" in paragraph 1.1 might cause difficulties for administrations and the IFRB. It was normal to make such a calculation at the edge of the service area and not within it.

2.4 The delegate of the Federal Republic of Germany said that the location with the highest degree of interference was not necessarily at the edge of the service area and, for that reason, reference was made to any point of the service area.

2.5 The delegate of Finland said that he was still convinced that the wording might lead to unnecessarily complicated coordinating procedures.

2.6 The representative of the IFRB said that the matter under discussion was very important. It was only when the protection ratio was not reached in 25% of the service area that the IFRB considered that there was harmful interference. The Conference might wish to decide the extent to which it wished to modify the conditions required for an administration to be affected. In any case, the IFRB would need to develop new computer software to implement the Conference decisions.

2.7 The delegate of Italy, supported by the delegate of France, said that he preferred the text of the paragraph to remain unchanged.

After further discussion on a proposed addition by the delegate of the Federal Republic of Germany, it was agreed to retain paragraph 1.1 as it stood.

ANNEX C

2.8 The delegate of the Netherlands said that it might be preferable to include Annex C in Article 6.

2.9 The delegate of France, supported by the delegates of the Federal Republic of Germany and of Italy, said that since the criteria were technical in nature it was more appropriate to include them in an annex.

It was so agreed.

Annexes A, B and C were approved, subject to the above amendments.

3. Draft Resolution concerning a procedure to permit compatibility of assignments of the permitted services with the Plan
(Document DT/20)

3.1 The Convenor of ad hoc Group 6A, introducing the document, said that the draft Resolution was intended to enable the Board and administrations to eliminate incompatibilities between assignments in the Master Register regarding the fixed and mobile permitted services. It was in essence similar to Resolution No. COM 6/2 approved the previous day.

3.2 The delegate of the Netherlands said that the reference to the provisions of Nos. 1445-1449 of the Radio Regulations would be better contained in resolves 3. In addition, the Resolution only tackled the question of what was to happen when the replacement assignments were in the same band, and he felt it necessary to have the same procedure applied when the replacement was found outside the band. Lastly, it should be made clear in resolves 6 that once the Plan was established, the permitted and primary services had equal rights to protection against other assignments.

3.3 The delegate of the Federal Republic of Germany said that the draft Resolution was not fully in line with the Radio Regulations or with the Conference agenda. His delegation shared the view expressed by the IFRB in Document 22, namely that before and after the planning of a primary service, the other primary or permitted services had the same rights. The Resolution therefore had to deal with all services on an equal basis. However, as it stood, the present assignments of the permitted services were downgraded to the equivalent of secondary services. Since the aim of the Administrative Council had been to ensure that the unplanned primary and permitted services were dealt with on an equal basis, he suggested that the Committee should draft a Recommendation urging administrations with assignments in the unplanned primary or permitted services to take all possible measures to facilitate the proper implementation of the maritime mobile services plan by, for example, looking for replacement frequencies, deleting frequencies whenever possible, using directional antennas or reducing power. Such a Recommendation should also contain measures regarding assignments in the permitted services, although such measures should not be mandatory.

3.4 The delegate of Austria endorsed the suggestion for a Resolution which would enable the services concerned to operate within a legal framework in the future. As the draft Resolution stood, resolves 6 implied both deletion of frequencies and loss of rights.

3.5 The Convenor of ad hoc Group 6A said that in drafting the Resolution the ad hoc Group had borne in mind the need to identify the problem, to transfer assignments to a replacement assignment within the same band or to another band, and the need to take appropriate measures in cases where administrations failed to do so. It addressed all those three aspects and was therefore within the Conference agenda. Resolves 6 was derived from the draft Resolution concerning the updating of the Master Register with regard to assignments in the maritime radionavigation service. The Group had therefore attempted to deal with both primary and permitted services on an equal basis, and without such a Resolution, the Plan would be inapplicable.

3.6 The delegate of the Netherlands said that while he appreciated the points made by the Convenor of the ad hoc Group, those raised by the delegate of the Federal Republic of Germany were equally valid and had to be taken into account. Since the right to protection could not be denied, he proposed that resolves 6 be replaced by:

> "urges administrations for whose assignments no replacement frequencies have been found to take all necessary steps to hamper the implementation of the Plan."

3.7 The representative of the IFRB reminded the Committee of the Board's views in Document 22 namely that the Conference had been instructed by the Administrative Council to give assignments in the permitted services appropriate protection, but the Board could not indicate to the Conference what was appropriate or not. However, if resolves 6 were adopted as it stood, the Resolution would in effect lead to a down-grading of the permitted services and would give rise to a number of problems, where alternative solutions could not be found.

After the delegates of Greece and Finland had put forward specific problems, the representative of the IFRB said that as he saw it three specific cases should be considered: 1) that referred to by the delegate of Greece, where an administration had a given number of assignments already in use, only some of which could be included in the Plan (leaving a number still in the Master Register without a corresponding assignment in the Plan); 2) that referred to by the delegate of Finland, where an assignment in the maritime mobile service had a favourable finding in the Master Register but was authoritatively moved by the Conference to another frequency where it caused interference to a permitted service; 3) the case of assignments in the Plan which were not yet in use and which might cause harmful interference to permitted services. As far as the first case was concerned, nothing could be done in view of the decision already taken by Committee 5, unless the delegation concerned could find ways of solving the problem in that Committee. As far as the other two cases were concerned, the problem was very complex and might better be dealt with by a small working group.

3.8 In the course of further discussion the delegate of Greece said that he considered that the problem fell within the competence of Committee 6, the deletate of the Netherlands pointed out that Committee 5 have achieved almost complete success in accommodating existing assignments and the delegate of the Ivory Coast said that if Committee 5 had failed to implement resolves 2 of the Conference agenda, it was up to Committee 6 to find replacement frequencies.

It was finally decided to establish a small group comprising the delegates of Austria, the Federal Republic of Germany, Finland, Greece and the Netherlands, with the delegate of Spain as convenor, and with the assistance of the IFRB, to revise Resolution No. COM 6/4 in the light of the comments made and report back to the next meeting of Committee 6.

The meeting rose at 1215 hours.

The Secretary: The Chairman:

J. BALFROID S. CHALLO

INTERNATIONAL TELECOMMUNICATION UNION
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GENEVA, FEBRUARY/MARCH 1985

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12 March 1985
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COMMITTEE 7

FIRST SERIES OF TEXTS SUBMITTED BY THE AD HOC GROUP OF COMMITTEE 6 TO THE EDITORIAL COMMITTEE

At its last meeting on 11 March 1985, Committee 6 instructed an ad hoc Group to finalize the text of a Recommendation based on the proposal submitted by France in Document 16.

The text adopted by the ad hoc Group is annexed hereto. In accordance with the instructions received from Committee 6, it is submitted directly to the Editorial Committee.

G. BALESTIBEAU
Chairman of the ad hoc Group of Committee 6

Annex: 1

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX

RECOMMENDATION No. COM 6/E

Relating to the Modification of the Provisions of the Radio Regulations Concerning the Use of Frequencies 2 047.4 kHz, 2 050.4 kHz, 2 054.4 kHz and 2 057.4 kHz by the Maritime Mobile Service

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that under the terms of Nos. 4358 to 4366 of the Radio Regulations, in Region 1 stations on ships making international voyages should be able to use, if required by their service for international communications:

- the following ship-to-shore working frequencies:

  carrier frequency 2 046 kHz (assigned frequency 2 047.4 kHz) and carrier frequency 2 049 kHz (assigned frequency 2 050.4 kHz) for class R3E and J3E emissions;

- the following intership frequencies:

  carrier frequency 2 053 kHz (assigned frequency 2 054.4 kHz) and carrier frequency 2 056 kHz (assigned frequency 2 057.4 kHz) for class R3E and J3E emissions;

that under the terms of No. 4365 of the Radio Regulations the two intership frequencies may be used as additional ship-to-shore frequencies;

b) that the four frequencies above are in the bands mentioned in paragraph c) of Appendix 2 to Resolution No. 704 (MOB-83) for ship radiotelephone stations but are not in conformity with the List of assignable frequencies mentioned in the afore-mentioned appendix to Resolution No. 704;

c) that, consequently, only 27 frequencies in the band 2 045 - 2 160 kHz could be used by ship stations in the establishment of the Plan for radiotelephony;

d) that it would be desirable to have additional ship frequencies available in that band to alleviate sharing problems;

e) that additional ship frequencies could be found by reducing the present number of frequnecies for international communciations by ships making international voyages;

f) that by aligning the frequencies mentioned in a) above with the List of assignable frequencies one additional ship frequency would become available;

g) that this Conference is not empowered to revise Nos. 4358 to 4365 of the Radio Regulations;

recommends

1. that the conference for the mobile services planned for 1987 should revise Nos. 4358 to 4366:

- in order to align the frequencies mentioned in these provisions with the List of assignable frequencies in Appendix 2 of Resolution No. 704;

- to study the possibility of reducing the number of ship frequencies for international communications;

2. to take appropriate action with regard to the use of the additional ship frequencies following the revision of Nos. 4358 to 4366 of the Radio Regulations;

invites the Administrative Council

to take appropriate steps to ensure that this Recommendation is placed on the agenda of the World Administrative Conference scheduled for 1987;

requests the Secretary-General

1. to draw the attention of administrations to this Recommendation;

2. to communicate this Recommendation to the International Maritime Organization (IMO).

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 141-E
12 March 1985
Original: English

Note by the Secretary-General

INFORMATION NOTE BY CANADA

At the request of the Canadian Administration, I transmit the attached document for the information of the Conference.

R.E. BUTLER
Secretary-General

Annex: 1

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

ANNEX

SHARING OF THE BAND 1605-1705 kHz BETWEEN THE MARITIME MOBILE SERVICE IN REGION 1 AND THE BROADCASTING SERVICE IN REGION 2

It is noted that the Regional Administrative Radio Conference for the Maritime Mobile Service (MM-R1) in certain parts of the MF Band in Region 1 will be convened on Feburary 25, 1985 and will be planning for the Maritime Mobile Service in most of the 1605-1705 kHz band. It is also noted that a Regional Administrative Radio Conference for the Broadcasting Service in the Band 1605-1705 kHz in Region 2 will be convened on April 14, 1986. The decisions taken by these two conferences could have considerable impact on the compatibility between the mobile and broadcasting services, in Regions 1 and 2.

The provisions of Article 7 number 56 of the ITU Convention requires the decisions taken at any Regional Administrative Radio Conference to be in conformity with the Radio Regulations and not in conflict with the interests of the two other regions. Furthermore, the recently established Joint Interim Working Party 10-3-8/1 of the CCIR has not yet reported on sharing criteria between the Broadcasting and Maritime Mobile services.

It is necessary that both conferences endeavour to minimize the potential for interregional interference and therefore some provisions must be made to ensure the efficient and compatible use of this part of the radio spectrum in both Regions 1 and 2.

BLUE PAGES

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 142-E
12 March 1985

B.5 (MM) PLENARY MEETING

FIFTH SERIES OF TEXTS SUBMITTED BY THE EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
COM.5	131	Resolution No. COM 5/1 (MM)
COM.6	128	Resolution No. COM 6/4 (MM)
COM.5	131	Recommendation No. COM 5/A (MM)
COM.5	131	Recommendation No. COM 5/B (MM)

J.-L. BLANC
Chairman of Editorial Committee

Annex: 14 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

BLUE PAGES

RESOLUTION No. COM 5/1 (MM)

Use of Channels for the Digital Selective Calling System in the Bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, according to Article 62 of the Radio Regulations, a digital selective calling system may be used if it is in full conformity with the relevant CCIR Recommendations;

b) that the CCIR has drawn up the necessary Recommendations;

c) that the effectiveness of the digital selective calling system requires agreement between administrations with respect to the use of national channels which have been designated by this Conference;

d) that the administrations at this Conference agreed to an Allotment Plan (annexed to this Resolution) for the national channels;

invites

administrations which are providing an international public correspondence service to indicate for publication in the List of Coast Stations the periods of service during which an automatic watch will be maintained on the international and national digital selective calling channels;

invites further

administrations which wish to enter into a group in the Allotment Plan, or administrations included in the Plan wishing to make a modification in the Plan, to coordinate as far as possible their proposed changes with other interested and affected administrations in the group concerned. An administration which has decided to enter into a group or change group in the Allotment Plan shall inform the Secretary-General of its decision and it shall be published in the Annex to the List of Coast Stations. Administrations shall also notify to the IFRB, in accordance with Article 5 of the Agreement, the use of the frequencies contained in the Annexes to this Resolution which are not covered by the provisions of No. 1220 of the Radio Regulations;

instructs the Secretary-General

1. to circulate this Resolution to all administrations responsible for coast stations in the countries or areas designated in the Allotment Plan in order to obtain their agreement to the Plan or to an adjustment of the Plan;

2. in the light of the foregoing, to update the Allotment Plan annexed to the List of Coast Stations;

3. in advance of the publication of any revision of the Allotment Plan in the List of Coast Stations, to notify any variation in the Plan through the Operational Bulletin.

Annexes: 2

ANNEX 1 TO RESOLUTION No. COM 5/1 (MM)

Allotment Plan for National Channels in the Digital Selective Calling System in the Band 435 - 526.5 kHz by Countries and Areas

Group 1, Channel No. 112 coast station transmitting frequency: 456.0 kHz ship station transmitting frequency : 459.0 kHz	
AZORES	MOROCCO (Mediterranean)
BELGIUM	MAURITANIA
BENIN	NIGERIA
COMORES	NORWAY
CAPE VERDE	OMAN
EGYPT	PORTUGAL
FRANCE	QATAR
FINLAND	REUNION
GIBRALTAR	ST. HELENA
GAMBIA	SWEDEN (Baltic)
GREECE	SUDAN
ICELAND	SENEGAL
JORDAN	SYRIA
KUWAIT	TUNISIA
LEBANON	UNITED ARAB EMIRATES
MAURITIUS	YEMEN ARAB REPUBLIC
MONACO	YEMEN (P.D.R. OF)
MADAGASCAR	YUGOSLAVIA
MADEIRA	ZAIRE
I. MARION	

Group 2, Channel No. 113
coast station transmitting frequency: 456.5 kHz
ship station transmitting frequency : 459.5 kHz

SOUTH AFRICA (REP.)	EQUATORIAL GUINEA
BAHRAIN	GUINEA
BYELORUSSIA	NETHERLANDS
BULGARIA	ITALY
CONGO	ISRAEL
CYPRUS	MALTA
FEDERAL REPUBLIC OF GERMANY (North Sea)	MONGOLIA
	SWEDEN (North Sea)
DJIBOUTI	SEYCHELLES
DENMARK	SOMALIA
SPAIN (Canary Islands included)	SIERRA LEONE
	SAO TOME AND PRINCIPE
ETHIOPIA	TOGO
GABON	UKRAINE
GUINEA-BISSAU	USSR

Group 3, Channel No. 114
coast station transmitting frequency: 457.0 kHz
ship station transmitting frequency : 460.0 kHz

ANGOLA	IRELAND
ALBANIA	IRAQ
ALGERIA	KENYA
SAUDI ARABIA	LIBERIA
CAMEROON	LIBYA
ARCHIPELAGO CROZET	MOZAMBIQUE
IVORY COAST	MOROCCO (Atlantic)
FEDERAL REPUBLIC OF GERMANY (Baltic)	NAMIBIA
	POLAND
GERMAN DEMOCRATIC REPUBLIC	ROMANIA
	CHAD
UNITED KINGDOM	TURKEY
GHANA	TANZANIA
	USSR

ANNEX 2 TO RESOLUTION No. COM 5/1 (MM)

Allotment Plan for National Channels in the Digital Selective Calling System in the Band 1 606.5 - 2 160 kHz by Countries and Areas

Group 1, Channel No. 229 coast station transmitting frequency: 1 621 kHz ship station transmitting frequency : 2 156 kHz	
BULGARIA	ICELAND
CAPE VERDE	JORDAN
IVORY COAST	KUWAIT
VATICAN	MOROCCO
UNITED KINGDOM (Irish Sea)	NORWAY (N.65N.)
GABON	TANZANIA
ITALY (West)	UKRAINE
	YEMEN ARAB REPUBLIC

Group 2, Channel No. 230 coast station transmitting frequency: 1 621.5 kHz ship station transmitting frequency : 2 156.5 kHz	
CAMEROON	ISRAEL
CANARIES	LIBERIA
COMORES	MAURITIUS
ETHIOPIA	NORWAY (S.65N.)
UNITED KINGDOM (Channel)	REUNION
ITALY (East)	ROMANIA
	SEYCHELLES (REPUBLIC OF)

Group 3, Channel No. 231 coast station transmitting frequency: 1 622 kHz ship station transmitting frequency : 2 157 kHz	
ALGERIA	KENYA
BYELORUSSIA	NORWAY (S.65N.)
FRANCE (Channel)	SYRIA
GHANA	UNITED ARAB EMIRATES
GREECE	USSR

Group 4, Channel No. 232 coast station transmitting frequency: 1 622.5 kHz ship station transmitting frequency : 2 157.5 kHz	
SAUDI ARABIA	IRELAND
FEDERAL REPUBLIC OF GERMANY	LIBYA
FRANCE (Mediterranean)	MOZAMBIQUE
FINLAND	MAURITANIA
EQUATORIAL GUINEA	SIERRA LEONE
	TURKEY

Group 5, Channel No. 233 coast station transmitting frequency: 1 623 kHz ship station transmitting frequency : 2 158 kHz	
ASCENSION	MALTA
DJIBOUTI	NAMIBIA
UNITED KINGDOM (North Sea)	OMAN
	SWEDEN
GIBRALTAR	ST. HELENA
GAMBIA	SAO TOME AND PRINCIPE

Group 6, Channel No. 234 coast station transmitting frequency: 1 623.5 kHz ship station transmitting frequency : 2 158.5 kHz	
ANGOLA	NETHERLANDS
ALBANIA	MONACO
BAHRAIN	NIGERIA
SPAIN (Atlantic)	POLAND
EGYPT	YEMEN (PEOPLE´S DEMO-
GUINEA	CRATIC REPUBLIC OF)

Group 7, Channel No. 235
coast station transmitting frequency: 1 624 kHz
ship station transmitting frequency : 2 159 kHz

BELGIUM	IRAQ
BENIN	MADAGASCAR
CYPRUS	SUDAN
GERMAN DEMOCRATIC REPUBLIC	SENEGAL
SPAIN (Mediterranean)	TRISTAN DA CUNHA
GREECE	USSR
	ZAIRE

Group 8, Channel No. 236
coast station transmitting frequency: 1 624.5 kHz
ship station transmitting frequency : 2 159.5 kHz

SOUTH AFRICA	PORTUGAL
AZORES	QATAR
CONGO	SOMALIA
DENMARK	TOGO
FRANCE (Atlantic)	TUNISIA
GUINEA-BISSAU	USSR
LEBANON	YUGOSLAVIA
MADEIRA	

RESOLUTION No. COM 6/4 (MM)

Compatibility Between Assignments Appearing in the Plan for the Maritime Mobile Service in the Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and Assignments in the Fixed and Land Mobile Services Recorded in the Master Register*

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that Article 8 of the Radio Regulations allocated in Region 1 the frequency bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis (primary in countries listed in No. 483 of the Radio Regulations;

b) that the Conference established a Plan for the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

c) that the Conference was unable to evaluate the incompatibilities between frequency asignments to the maritime mobile service entered in the Plan and those of the primary services recorded in the Master Register;

d) that the Conference was unable to assign alternative frequencies to the assignments to stations of permitted services after having selected the frequencies for the maritime mobile service as indicated in the provisions of No. 419 of the Radio Regulations;

e) that in accordance with No. 419 of the Radio Regulations, the primary and permitted services have equal rights except during the period of preparation of a Plan for the primary service;

f) that the evaluation of compatibility between assignments to the maritime mobile service in the Plan and the other services can be made only after the Conference;

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* This Resolution was prepared on the understanding that all assignments to coast stations in the planned bands which are presently in use have a corresponding assignment in the Plan.

g) that this evaluation may indicate the probability of harmful interference between assignments appearing in the Plan and other assignments presently recorded in the Master Register for the fixed and land mobile services;

h) that in such cases alternative frequencies should be found to the assignments causing or subject to interference;

i) that the planned bands are already congested and that alternative frequencies will have to be found generally in other bands;

j) that in general it is easier for the stations of the fixed and land mobile services to make modifications to their characteristics;

resolves

1. that, within 90 days of the end of the present Conference, the IFRB shall send to each administration the list of assignments to its stations of the fixed and land mobile services recorded in the Master Register in the bands concerned, requesting them to review these assignments with a view to cancelling those assignments which are no longer in use;

2. that administrations shall, within a period of 90 days following the receipt of the list referred to in paragraph 1 above, return the copy of the list indicating those assignments to be deleted from the Master Register as well as any modification to other assignments, which may assist in resolving any apparent incompatibility with the Plan;

3. that, having received information requested under Resolution No. COM 6/2 indicating the relation between assignments in the maritime mobile service recorded in the Master Register and those appearing in the Plan as well as the information resulting from the application of paragraphs 1 and 2 above, the IFRB shall carry out compatibility analyses between the assignments appearing in the Plan and those of the fixed and land mobile services which are recorded in the Master Register in the same band, using the IFRB Technical Standards on the basis of ground-wave propagation;

4. that the IFRB shall send to each administration concerned the list of incompatibilities that may exist between the assignments in the Plan and the assignments in the fixed and land mobile services;

5. that, when an administration finds that the level of interference caused to its fixed or land mobile station from an assignment to a station of the maritime mobile service appearing in the Plan is acceptable to it, it shall so inform the IFRB and the corresponding asignment is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

6. that, when an administration finds that the level of interference caused to its maritime mobile station for which an assignment appears in the Plan is acceptable to it, it shall so inform the IFRB and the fixed or land mobile assignment at the origin of interference is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

7. that, when an assignment in the fixed or land mobile service with a date in Column 2b of the Master Register is identified as capable of causing harmful interference to an assignment appearing in the Plan, the administration responsible for the fixed or land mobile assignment shall take appropriate measures to change the frequency or modify the characteristics in order to eliminate the probability of harmful interference;

8. that, when there exists an incompatibility between an assignment in the Plan and an assignment of the fixed or land mobile service with a date in Column 2a of the Master Register, administrations concerned should make every effort to eliminate the incompatibility by modifying the characteristics of the assignments concerned and, if this is not possible, by selecting an alternative frequency either in the planned bands or in the case of fixed and land mobile services preferably in other bands;

9. that 120 days before the date of entry into force of the Agreement, the IFRB shall request those administrations concerned with an unresolved incompatibility to find a solution to the problem. If 90 days before the entry into force of the Agreement, the Board is not informed of the resolution of such incompatibility, it shall select an alternative frequency for the assignment having the more recent date in Column 2a of the Master Register and inform the administrations concerned;

10. that an administration, for which an acceptable alternative frequency was selected in accordance with paragraph 9 above, shall modify the characteristics of its assignment in order to operate at this new frequency as soon as possible and, in any case, before the bringing into use of the assignment in the Plan;

11. that administrations may request the assistance of the Board at any stage of these proceedings;

12. that when an alternative frequency is selected in accordance with paragraphs 8 or 9 above and is compatible with the Plan and receives a favourable finding with respect to assignments recorded in the Master Register, the assignment will keep its original date in Column 2a;

urges administrations

1. having assignments in the fixed or land mobile service which are incompatible with an assignment in the Plan to take all necessary measures to eliminate the incompatibility bearing in mind that, in general, the fixed and land mobile services have more flexibility to modify their characteristics, including the frequency;

2. having assignments in the Plan which are incompatible [with assignments in the fixed or land mobile service with a date in Column 2a of the Master Register] to modify the characteristics of their assignments appearing in the Plan in order to eliminate incompatibility;

3. to cooperate to the maximum extent possible with a view to achieving the objectives of this Resolution;

requests the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

BLUE PAGES

RECOMMENDATION No. COM 5/A (MM)

Replacement of the World-wide Maritime Mobile Working Frequency 425 kHz for Ship Stations

The Regional Administrative Radio Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference, (Geneva, 1979) allocated the frequency band 415 - 435 kHz in Region 1 to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) that the World Administrative Radio Conference for the Mobile Services, (Geneva, 1983) resolved that a Regional Administrative Radio Conference for Region 1 should be convened in 1985 to prepare frequency assignment plans for the aeronautical radionavigation service in the frequency bands 415 - 435 kHz and 505 - 526.5 kHz, and for the maritime mobile service in the frequency bands 415 - 435 kHz and 435 - 526.5 kHz;

further considering

c) that this Conference established a frequency assignment plan for aeronautical radiobeacon stations in the band 415 - 435 kHz in Region 1;

d) that the possibilities for the maritime mobile service for using frequencies from this band are limited;

e) that this Conference decided that in the maritime mobile service, only coast stations should be allowed to use frequencies from this band;

f) that this would not be practicable if the frequency 425 kHz were allowed to continue on a world-wide basis as a ship working frequency for radiotelegraphy in accordance with the allocation to the maritime mobile service in this band and with No. 4237 of the Radio Regulations;

g) that this Conference decided that the frequency 458 kHz would be a suitable replacement for the frequency 425 kHz in order to avoid problems with the implementation of the Plan for the aeronautical radiobeacon stations;

h) that harmful interference in the reception of the aeronautical radiobeacon stations may have serious implications for the safety of life;

i) that the revision of No. 4237 was not on the agenda of this Conference;

recommends

that the Conference for the Mobile Services scheduled for 1987 should be authorized to review and revise No. 4237 of the Radio Regulations with a view to replacing the frequency 425 kHz by the frequency 458 kHz as a world-wide ship station working frequency in all the Regions, from the date of entry into force of the Plan for aeronautical radiobeacons in the band 415 - 435 kHz (i.e. ...);

invites

the Administrative Council to ensure that the Conference for the Mobile Services planned for 1987 will be competent to review and revise No. 4237 of the Radio Regulations;

requests

the Secretary-General to bring this Recommendation to the attention of all administrations.

RECOMMENDATION No. COM 5/B (MM)

Frequency Pairs in the Bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz to be Used for Digital Selective Calling for National and International Purposes

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference for the Mobile Services, (Geneva, 1983) could not prepare frequency assignment plans for the bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz and resolved in Resolution No. 704 (MOB-83) that a Regional Administrative Radio Conference for Region 1 be convened to prepare frequency assignment plans;

b) that this Conference designated frequency pairs in the MF band to be used for digital selective calling for national and international purposes in the band 435 - 526.5 kHz and for national purposes only in the band 1 606.5 - 2 160 kHz (Resolution No. COM 5/1);

c) that the use of frequency pairs for digital selective calling for international use is also of interest for Regions 2 and 3;

recognizing

a) that this Conference could not designate a frequency pair for digital selective calling for international use in the band 1 606.5 - 2 160 kHz;

b) that this Conference could designate frequency pairs for digital selective calling in the band 435 - 526.5 kHz with a separation of only 3 kHz between coast station and ship station frequencies;

recommends

that the World Administrative Radio Conference for the Mobile Services, scheduled for 1987, should consider

1. designating for international use in Regions 2 and 3, the frequency pairs for digital selective calling in the band 435 - 526.5 kHz designated by this Conference for international use in Region 1;

2. designating a frequency pair for digital selective calling in the band 1 606.5 - 2 850 kHz for world-wide international use;

3. making provisions in the Radio Regulations for the frequency pairs for digital selective calling for national purposes on a world-wide basis;

invites the Administrative Council

to include in the agenda of the WARC for the Mobile Services, scheduled for 1987, provisions to ensure that the Conference will be competent to review parts of Article 62 of the Radio Regulations so as to cover paragraphs 1 to 3 of "recommends" above;

invites the CCIR

1. to study the technical problems that may arise from the 3 kHz duplex separation in the digital selective calling channels in the band 435 - 526.5 kHz;

2. to review the appropriate CCIR Recommendations.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 143-E
13 March 1985
Original: French

Note by the Secretary-General

FOR INFORMATION

FINAL DAYS OF THE CONFERENCE

1. Final Acts

The copies of the Final Acts will be distributed by means of one copy per delegate, distributed in the document distribution boxes before the signing ceremony.

Note - Delegates who leave the Conference before the signing ceremony are requested to fill in a form available at the Document Distribution Service to enable the Secretariat to dispatch their copies after the Conference.

2. Declarations concerning the Final Acts

When the last text to be included in the Final Acts of the Conference has been approved in second reading by the Plenary Meeting, a time limit will be set for the deposit of declarations concerning the Final Acts.

The declarations concerning the Final Acts are to be handed in to the Executive Secretary of the Conference (office J.165) for publication in a consolidated document.

The Plenary Meeting will take note of the declarations concerning the Final Acts and fix a second deadline for the deposit of additional declarations having regard to the first set of declarations.

A subsequent Plenary Meeting will take note of the additional declarations.

3. Signing ceremony

Between the final adoption, in second reading, of the last texts of the Final Acts and the signing ceremony, a period of 18 hours is required:

- for the preparation and printing of the Final Acts, and
- for the deposit and publication of the declarations and additional declarations, as well as for the Plenary Meeting held to take note of them.

The time of the opening of the signing ceremony will therefore depend on when the last text is cleared in Plenary.

It should be noted that delegations (or members thereof) wishing to sign the Final Acts before the signing ceremony may do so by application to office J.165 (Mr. Macheret).

R.E. BUTLER
Secretary-General

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 144-E
14 March 1985
Original: English

COMMITTEE 6

SUMMARY RECORD

OF THE

SEVENTH AND LAST MEETING OF COMMITTEE 6

(AGREEMENT AND PROCEDURES)

Monday, 11 March 1985, at 1405 hrs

Chairman: Mr. S. CHALLO (Kenya)

Subjects discussed:

		Documents
1.	Report of ad hoc Group on the draft Resolution concerning a procedure to permit compatibility of assignments of the permitted services within the Plan (COM 6/4 (MM))	123
2.	Notes from the Chairman of Committee 5	109, 16, DL/8
3.	Further consideration of Articles 2 and 13 of the Regional Agreement	105 and Corr.1, 130
4.	Approval of the summary records of the second and third meetings of Committee 6	56, 78
5.	Further consideration of the date of entry into force of the Agreement	
6.	Completion of the Committee's work	

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Report of ad hoc Group on the draft Resolution concerning a procedure to permit compatibility of assignments of the permitted services within the Plan (COM 6/4 (MM)) (Document 123)

1.1 The Chairman of the ad hoc Group, introducing Document 123, drew attention to the footnote on page 2, the purpose of which was to indicate that the ad hoc Group had not yet been able to resolve the problem raised by the delegate of Greece at the previous meeting. In the second line of operative paragraph 5 the words "for which" should be replaced by "from", and the word "appears" by "of the maritime mobile service appearing".

1.2 The Chairman invited the Committee to consider the draft Resolution.

1.3 The delegate of the USSR referring to resolves 8 and 9 said that, in his view, if there was incompatibility the only way to overcome the difficulty was for the administration concerned to modify the characteristics of its assignment. He drew attention to the decision of Committee 5 in paragraph 1.2 of Document 63 which stated that compatibility calculations would be based on ground-wave propagation only. However, the IFRB's first incompatibility analysis had been carried out taking sky-wave propagation into account; he proposed to return to the question when the second analysis was completed.

1.3bis The representative of the IFRB indicated that the second analysis would not be more helpful in this respect because, due to lack of time, it had not been possible to change the software which had been used in the previous one.

1.4 The delegate of Ireland said that according to item 2.2 of its agenda the Conference was to reassign replacement frequencies for stations of the maritime mobile service in accordance with operative paragraph 2 of Resolution No. 38 of WARC-79, while under item 2.3 it was to afford appropriate protection to frequency assignments to stations of other services. It seemed therefore that resolves 9 would not meet the Conference's obligations relating to the assignment of replacement frequencies.

1.5 The delegate of Sweden said that that view implied that the reassigned replacement frequencies would have a higher status than the other assignments in the Plan.

1.6 The representative of the IFRB said it appeared that the fixed stations had more flexibility in finding alternative frequencies than the maritime mobile stations.

1.7 The delegates of the Netherlands, Denmark and Sweden said that, in the absence of incompatibility analyses during the Conference, a pragmatic approach must now be adopted to the solution of incompatibility problems. It was clearly easier for the stations of the fixed and land mobile services to modify their characteristics to accommodate assignments to the maritime mobile service, although the stations of that service would also have to make some modifications in the interests of generally improving the use of the bands concerned.

1.8 The delegate of the USSR strongly endorsed that last point. The delegate of the Netherlands supported that view and suggested that the balance of resolves 8 might be redressed by inserting a text to the effect that every effort should be made to solve incompatibility problems by modifying station characteristics before resorting to changes of frequency. The delegate of Finland supported that suggestion.

1.9 The representative of the IFRB read out a text to replace the first three lines of resolves 8 under which, when an incompatibility existed between an assignment in the Plan and an assignment in the fixed or land mobile service with a 2a date, the administrations concerned should modify the characteristics of their assignments. It would be noted, however, that the question of the service which would take the initiative in the matter was left open.

1.10 The Chairman of the ad hoc Group said that the text as read out vitiated the agreement reached in the Group that the initiative should come from the fixed or land mobile service. The delegate of the Federal Republic of Germany suggested that that point might be covered by adding a new considering j) referring to the greater flexibility of stations of the fixed and land mobile services in modifying their characteristics. The delegate of the Netherlands supported that suggestion.

1.11 Turning to urges administrations 1, the delegate of the Netherlands suggested that the words "appearing in one of the Plans" should be inserted after "assignments" in the second line.

1.12 The Chairman of the ad hoc Group and the delegates of Sweden, the USSR, Italy and Greece said they would prefer to leave the paragraph unchanged, since the proposed insertion might destroy the balance achieved by the new considering paragraph.

1.13 The delegate of Finland suggested that the Committee should continue its discussion on the basis of written texts of the new considering paragraph and revised versions of resolves 8 and urges administrations 1.

Following a suspension of the meeting, an informal paper containing the texts mentioned by the delegate of Finland was approved with a number of amendments.[1]

1.14 The delegate of the USSR suggested a small change to resolves 9 and said that the agreement of an administration for which the IFRB had selected an alternative frequency should be specified in resolves 10. The representative of the IFRB said he wished it to be recorded that, when applying resolves 9 and 10, if administrations refused repeatedly the replacement frequencies and did not propose any replacement frequency, the assignment would be maintained in the Master Register or in the Plan subject to not causing harmful interference to the assignment in the Plan or to the station of the fixed or land mobile service.

2. Note from the Chairman of Committee 5 (Documents 109, 16, DL/8)

2.1 The delegate of France introduced Recommendation No. F-A in Document DL/8.

2.2 The delegate of Norway said that, since his country, with its very long coastline, made extensive use of all the four frequencies referred to in considering a), he would prefer the first line of recommends 1) to read "to study the feasibility of ...".

2.3 In reply to a comment by the delegate of the Netherlands, who questioned the competence of the Conference to recommend action with regard to the international frequencies concerned, the delegates of Sweden and Denmark pointed out that the frequencies in question all lay in the band 2 045 kHz to 2 160 kHz and thus fell within the competence of the Conference. Moreover, since the channelling plan contained fewer assignable frequencies for ship than for coast stations, there was an urgent need to dispense with one use of frequency 2 061.4 kHz, which was currently used for three different channels. They therefore supported the draft Recommendation.

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[1] Subsequently issued in Document 128.

2.4 The delegate of Greece observed that, because of the imbalance in the number of ship and coast station assignments, there might be some advantage in reserving more international frequencies for ship stations, to be used to reduce congestion in certain areas.

In view of the pressure of time, it was agreed to set up an ad hoc Group under the chairmanship of the delegate of France, composed of delegates of the Netherlands, Norway, Sweden, Greece, Spain and the United Kingdom, to revise the draft Recommendation and to submit the results directly to the Plenary Meeting.

3. Further consideration of Articles 2 and 13 of the Regional Agreement (Documents 105 and Corr.1, 130)

3.1 The representative of the IFRB drew the attention of the Committee to the content of Document 130, relating to Article 2.

The revised and new texts were approved.

3.2 The Chairman said that the essence of Article 13 (Document 105 and Corr.1) was the abrogation of the Copenhagen Convention and the Plan annexed thereto.

The French text of Article 13 was approved.

4. Approval of the summary records of the second and third meetings of Committee 6 (Documents 56 and 78)

4.1 The summary record of the second meeting of Committee 6 (Document 56) was approved.

4.2 The summary record of the third meeting (Document 78) was approved, subject to an amendment by the delegate of Spain (see Corrigendum 1 to Document 78).

5. Further consideration of the date of entry into force of the Agreement

The Chairman elaborated on some of the factors to be considered in deciding the date of entry into force of the Agreement.

5.1 The delegate of the Federal Republic of Germany urged the need to bring the Agreement into force at an early date. The delegates of Norway and Denmark maintained their preference for 1987 or 1988, but the latter said he would accept 1990 as a compromise. The delegates of the United Kingdom and the Netherlands also preferred 1988 but would accept 1990. The delegate of Spain considered that 1990 was the latest acceptable date.

5.2 The delegate of the German Democratic Republic advocated 1992; the delegate of Greece said he was unable to agree to any date prior to 1993; the delegate of Albania suggested a date after 1993.

5.3 The delegate of the USSR, supported by the delegates of Algeria, Greece and Italy, proposed that the question be referred to the Plenary Meeting, indicating specific dates, and that a vote be taken on the matter if necessary.

5.4 The Chairman observed that the dates put forward ranged from 1987 to 1993, with some support for a compromise of 1990; he therefore proposed that those three dates be submitted to the Plenary for decision.

It was so agreed.

The Chairman asked the Committee whether there were any outstanding or new subjects that the Committee had overlooked. There was no indication from the Committee that there were any matters overlooked.

6. Completion of the Committee's work

6.1 After the customary exchange of courtesies, the Chairman announced that Committee 6 had completed its work.

The meeting rose at 1935 hours.

The Secretary: The Chairman:

J. BALFROID S. CHALLO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 145-E
15 March 1985

PLENARY MEETING

FINAL PROTOCOL

At the time of signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the undersigned delegates take note of the following statements made by signatory delegations.

1

Original: French

For Portugal:

The delegation of Portugal to the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the HF Band in Region 1 (Geneva, 1985) reserves the right of its Government to take such measures as it deems necessary to safeguard its interests should Members fail in any way to abide by the provisions of the Conference or if reservations made by other countries jeopardize the operation of its radiocommunication services.

2

Original: French

For Tunisia:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the Tunisian Delegation regrets that half of its requirements have not been taken into account because the planning process adopted in effect favours certain countries in relation to the others.

The Delegation of Tunisia reserves its Government's right to take whatever action may be necessary to protect its interests should the future application of the new plans jeopardize the operation of its radiocommunication services.

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3

Original: English

For the Republic of Kenya:

The Delegation of Kenya to the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the MF Band in Region 1, (Geneva, 1985) reserves the right of the Government of the Republic of Kenya to take any action it may deem necessary to safeguard its interest if any Member country fails in any way to comply with any provision, resolution, recommendation or contents of the annexes contained in the Final Acts of this Conference or if reservations made by other countries jeopardize the implementation or operations of the provisions contained therein.

4

Original: English

For the People's Democratic Republic of Algeria, the Kingdom of Saudi Arabia, the State of Bahrain, the Republic of Iraq, the State of Kuwait, the Socialist People's Libyan Arab Jamahiriya, the Kingdom of Morocco, the Sultanate of Oman, the State of Qatar and Tunisia:

The Delegations of the above-mentioned countries to the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the MF band in Region 1 (Geneva, 1985) declare that the signature and possible approval by their respective Governments or competent authorities of the Final Acts of this Conference are not valid with respect to the Zionist entity appearing in Annex 1 of the Convention under the name of the so-called Israel and in no way whatsoever imply its recognition.

5

Original: French

For the People's Republic of Angola:

In signing the Final Acts of this Conference, the Delegation of the People's Republic of Angola wishes to state that it reserves the right for its Government to take any action it may deem necessary to safeguard its interests, should any Members fail in any way to comply with the provisions of the Final Acts or should reservations by other delegations jeopardize the operation of its telecommunication services.

6

Original: French

For the People's Democratic Republic of Algeria:

The Algerian Delegation declares that the notices concerning the stations of the maritime mobile and aeronautical radionavigation services in the Western Sahara submitted by the Kingdom of Morocco are null and void with respect to international law and to all relevant resolutions of the United Nations and the Organization of African Unity. Therefore, they may in no event be taken into consideration so long as the Sahrawi people has not expressed itself freely and in sovereignty on its future and has not exercised its right to self-determination and independence.

7

Original: French

For the Republic of the Ivory Coast:

In signing the Final Acts of this Conference, the Delegation of the Republic of the Ivory Coast declares that it reserves for its Government the right to approve the Final Acts and to take such action as it may deem necessary to protect its maritime radiocommunication and aeronautical radionavigation services, should any administration party to the Agreement refuse or fail to comply with it.

8

Original: English

For the Republic of Malta:

In signing the Final Acts of the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the MF band in Region 1, Geneva, 1985, the Delegation of the Republic of Malta reserves its Government's right to take whatever action it may deem necessary to safeguard its interests should any Member fail in any way to comply with the provisions laid down in the Final Acts or should the reservations made by other countries jeopardize the radiocommunciation services of the Republic of Malta.

9

Original: English

For the State of Israel:

In addition to the frequencies included in the Plans, Israel operates a number of frequencies for the maritime mobile service and the aeronautical radionavigation service (radiobeacons) which have been duly registered with the IFRB but which, for technical reasons, were not included in the Plans. Israel reserves the right to continue to operate these frequencies in accordance with the regulations in force and the provisions of this Agreement.

10

Original: French

For the People's Republic of Poland:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the Delegation of the People's Republic of Poland reserves for its Government the right to take any action it may deem necessary to protect and to ensure the operation of its existing stations in the maritime mobile and aeronautical radionavigation services.

11

Original: English

For Greece:

The Delegation of the Hellenic Republic (Greece) to the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the MF band in Region 1 (Geneva, 1985) declares that its Administration views with concern the outcome of the Conference because the frequency plans established do not provide adequate protection to coast stations with heavy Morse radiotelegraphy traffic.

Greece therefore urges all Contracting Members and the IFRB to do everything possible to ensure continuation of Morse radiotelegraphy service in the planned band under satisfactory conditions.

12

Original: French

For the Republic of Guinea:

The Delegation of the Republic of Guinea to the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985) reserves for its Government the right to take any action it may deem necessary to safeguard its interests, should any Member fail to comply with the provisions of these Final Acts and their annexes.

13

Original: French

For the Kingdom of Morocco:

The towns of Sebta (Ceuta) and Melillia (Melilla), together with their areas, are an integral part of the territory of the Kingdom of Morocco.

Consequently, the Moroccan Administration firmly reserves its position concerning entries in the Frequency Assignment Plan for the Maritime and Aeronautical Mobile Services on behalf of Spain in the above-mentioned territories.

The signature and possible ratification of the Final Acts of this Conference in no way imply recognition of Spanish sovereignty over these territories.

14

Original: French

For Italy:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), the Delegation of Italy reserves for its Government the right to take any measures it might deem necessary to safeguard its interests should other countries fail to observe the provisions of the Agreement, its Annexes and Protocol or formulate reservations which jeopardize its radio services.

15

Original: French

For France:

In signing the Final Acts of this Conference, the Delegation of France declares that only a part of the requirements it submitted have been met and that implementation of the decisions adopted by the Conference in this regard are likely to raise many difficulties.

The French delegation therefore wishes to reserve its Government's right to take all appropriate action to ensure the protection and proper operation of its maritime mobile service after the date of entry into force of the Plan.

16

Original: English

For the Federal Republic of Germany, Denmark, Finland, Norway, the Kingdom of the Netherlands, the United Kingdom of Great Britain and Northern Ireland, and Sweden

Recognizing the vital contributions made by aeronautical radiobeacons and maritime communications to safety, the Delegations of the above-mentioned countries view with concern the decision of the Conference to defer the entry into force of the Agreement until 1992. There will therefore be a period of seven years before the new Frequency Plans for aeronautical radiobeacons and maritime communications can be implemented.

The Delegations of the above-mentioned countries therefore urge all administrations in Region 1 and the IFRB to do everything possible to preserve the integrity of the new Plans so that when they are brought into use, aeronautical radiobeacons and maritime communications can continue to make their vital contributions to safety.

BLUE PAGES

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 146-E
13 March 1985

B.6 (MM) PLENARY MEETING

SIXTH SERIES OF TEXTS SUBMITTED BY THE EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
GR. ad hoc 6	140	Recommendation No. COM 6/E (MM)

J.-L. BLANC
Chairman
of the Editorial Committee

Annexes: 2

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

RECOMMENDATION No. COM 6/E (MM)

Modification of the Provisions of the Radio Regulations Concerning the Use of Frequencies 2 047.4 kHz, 2 050.4 kHz, 2 054.4 kHz and 2 057.4 kHz by the Maritime Mobile Service

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), (Geneva, 1985),

considering

a) that, under the terms of Nos. 4358 to 4366 of the Radio Regulations, in Region 1 stations on ships making international voyages should be able to use, if required by their service for international communications:

- the following ship-to-shore working frequencies:

  carrier frequency 2 046 kHz (assigned frequency 2 047.4 kHz) and carrier frequency 2 049 kHz (assigned frequency 2 050.4 kHz) for class R3E and J3E emissions;

- the following intership frequencies:

  carrier frequency 2 053 kHz (assigned frequency 2 054.4 kHz) and carrier frequency 2 056 kHz (assigned frequency 2 057.4 kHz) for class R3E and J3E emissions;

that, under No. 4365 of the Radio Regulations, the two intership frequencies may be used as additional ship-to-shore frequencies;

b) that the four frequencies above are in the band [2 045 - 2 141.5 kHz] mentioned in paragraph c) of Appendix 2 to Resolution No. 704 (MOB-83) for ship radiotelephone stations but are not in conformity with the table of recommended assignable frequencies shown in the aforementioned appendix to Resolution No. 704;

c) that, consequently, only 27 frequencies of the table referred to in considering b) above could be used by ship stations for radiotelephony;

d) that it would be desirable to have additional ship frequencies available in that band to alleviate sharing problems;

e) that additional ship frequencies could be found by reducing the present number of frequencies for international communication by ships making international voyages;

f) that by aligning the frequencies mentioned in considering a) with those of the table mentioned in considering b) one additional ship frequency would become available;

g) that this Conference is not empowered to revise Nos. 4358 to 4366 of the Radio Regulations;

recommends

1. that the conference for the mobile services planned for 1987 should revise Nos. 4358 to 4366:

- in order to align the frequencies mentioned in these provisions with those of the table shown in Appendix 2 of Resolution No. 704;

- in order to study the possibility of reducing the number of ship frequencies for international communication;

2. that the same conference should take appropriate action with regard to the use of the additional ship frequencies following the revision of Nos. 4358 to 4366 of the Radio Regulations;

invites the Administrative Council

to take appropriate steps to include the revision of Nos. 4358 to 4366 of the Radio Regulations in the agenda of the World Administrative Conference for the Mobile Services in 1987;

instructs the Secretary-General

1. to bring this Recommendation to the attention of all administrations;

2. to communicate this Recommendation to the International Maritime Organization (IMO).

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 147-E
15 March 1985
Original: English

COMMITTEE 5

SUMMARY RECORD

OF THE

EIGHTH AND LAST MEETING OF COMMITTEE 5

(PLANNING)

Monday, 11 March 1985, at 1905 hrs

Chairman: Mr. T. BØE (Norway)

Subjects discussed:		Documents
1.	Reports of the Chairmen of ad hoc Groups 3 and 4	116, 117
2.	Consideration of the draft frequency assignment Plan for the maritime mobile and the aeronautical radionavigation (radiobeacon) services	101, 102 121, 122,
3.	Approval of summary records of the first to fourth meetings of Committee 5	47, 51, 55, 73
4.	Reassignment of replacement frequencies in accordance with Resolution No. 38 of WARC-79	26
5.	Completion of the work of the Committee	-

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1. Reports of the Chairmen of ad hoc Groups 3 and 4
(Documents 116 and 117)

1.1 The Chairman of ad hoc Group 3, introducing Document 116, invited the Committee to consider Recommendation No. COM 5/B (MM) and Resolution No. COM 5/1 (MM) which had been drafted in response to a request by Committee 5 at its last meeting. Since the document had been processed very quickly, a number of typographical errors had been made.

It was agreed after a brief discussion that the frequency 2 850 kHz given in Recommendation No. COM 5/B (MM) (Annex 1) should be replaced by 2 160 kHz throughout the Recommendation.

It was agreed that the words "and also" should be inserted before the existing recommends, and that sub-paragraphs 1) and 2) of that same section should start with the words "consider designating".

At the suggestion of the Chairman of the IFRB it was further agreed that a new recommends paragraph, the final drafting of which should be left to Committee 7, be inserted after recognizing b), on the following lines:

"recommends

that the Administrative Council should include on the agenda of the Mobile Conference Articles ... and Appendices ... of the Radio Regulations."

Recommendation No. COM 5/B (MM), as amended, was approved.

1.2 The Chairman of ad hoc Group 3, turning to Recommendation No. COM 5/1 (MM), said that in the title, the frequency 2 625 kHz should be replaced by 2 160 kHz, and that in the Table relating to Group 1, Channel No. 112 (Annex 1 to the Resolution), St. Helena should be inserted between Reunion and Sweden (Baltic), and should be deleted from Group 3, Channel No. 114. In Group 8, Channel No. 236 (Annex 2), Madeira should be inserted after Lebanon and deleted after Portugal.

1.2.1 The delegate of Tunisia requested that his country be deleted from Group 3 and inserted in Group 1.

It was so agreed.

1.2.2 The Chairman of the IFRB suggested that the title "Distribution Plan" should be replaced by "Allotment Plan" throughout to be consistent with Appendix 25 of the Radio Regulations.

It was so agreed.

1.2.3 The Chairman of the IFRB further suggested that to ease administrative problems, a sentence on the following lines be inserted at the end of invites further:

"Administrations shall also notify the IFRB of the use of these frequencies, in accordance with this Agreement."

The final wording would be left to Committee 7.

It was so agreed.

Recommendation No. COM 5/1 (MM), as amended, was approved.

1.3 The Chairman of ad hoc Group 4, introducing Document 117, pointed out draft Recommendation No. COM 5/A (MM) contained therein was a revised version of that appearing in Document 92. The title of the Recommendation in the French version was to be aligned with the English.

1.3.1 The Chairman of the IFRB said that, to be consistent with Article 1, the expression "aeronautical radiobeacons" should be replaced by "aeronautical radiobeacon stations" throughout. He further suggested that in further considering g) the words "should replace" be replaced by "would be a suitable replacement for".

It was so agreed.

It was further agreed that the square brackets around 458 kHz in further considering g) should be deleted.

Draft Recommendation No. COM 5/A (MM) as amended, was approved.

2. Consideration of the draft frequency assignment Plan for the maritime mobile and the aeronautical radionavigation (radiobeacon) services (Documents 101, 102, 121 and 122)

2.1 The Chairman invited the Chairmen of the two Planning Groups to give oral reports prior to the Committee's consideration of the draft Plan for the maritime mobile service in Document 101.

2.2 The Chairman of Planning Group 5A said that for the second part of the planning exercise for the maritime mobile service, a total of 1,179 requirements had been processed, and priorities had been established as requested by Committee 5.

- For duplex channels, 347 requests for priority 1 had been satisfied with protection A1A;
- for the second priority, 213 requests had been dealt with and accorded protection F1B;
- of the 110 requests for third priority, 83 had been satisfied and the remainder included with priority 4, under which 58 out of 89 requests had been satisfied, but with a reduced range of 200 km;
- the remainder had been included with priority 5, under which 114 out of 149 requests had been satisfied with a reduced range of 100 km;
- since the maritime mobile service was permitted to operate in the 415 - 435 kHz band, tests had been carried out on 45 requirements in the band and 16 had been satisfied;
- the Planning Group had decided that it could not go below the 100 km range;
- for simplex channels, 51 out of 72 requirements had been satisfied.
- ad hoc Group 3 of Committee 5 had dealt with assignments for digital selective calling and the results were listed in the Annex to Resolution No. COM 5/1 (MM);

- for the aeronautical bands, 920 requirements had been submitted and all but 126 had been satisfied. Thirty countries had had all their requirements satisfied, 11 countries had had between 50 and 100% satisfaction, and 17 countries had received less than average satisfaction. As Committee 5 had decided not to include assignments in the 415 kHz band in the Plan, a Resolution would be needed if administrations wished to protect them, and an ad hoc group might be established to draft a suitable text. There had been particular difficulties in some areas on account of the heavy congestion, but if some administrations were to agree to decrease the range of their beacons within the next two days it might still be possible to satisfy more requirements in the aeronautical band.

2.3 The Chairman of Planning Group 5B said that for narrow-band direct printing, since by some error the requirements of some countries had not been taken into account in the first run, had been replanned with a higher number of requirements leading to a higher number of unsatisfied requirements. Out of a total of 293 requirements processed, 272 had been satisfied, and all coast stations but one had been assigned at least two frequencies where required. For the radiotelephony band the first Plan had been refined on an interactive basis: out of the 989 requirements, 267 had not been satisfied, although of the 15 requirements with priority 1 which had not been satisfied in the first run, 10 had now been satisfied. In many cases refinement had been possible through a detailed study of the geographical situation and resulting shorter distances. In Documents 111 and 112, the ranges indicated were those originally submitted, but generally speaking it had not been possible to maintain those in the Plan due to the decision to limit the ranges; requirements with a lower priority had been processed with shorter ranges. In the analysis distributed immediately prior to the present meeting, the actual ranges maintained after planning had been indicated in nautical miles.

2.4 The Chairman added that for the final reading of the Plan, the correct range would be given in km. In addition, column 10 (e.m.r.p.) would be calculated after the Conference and included in the final document sent out to administrations. It was to be hoped that delegations with unsatisfied requirements would undertake bilateral discussions or coordination through the Planning Groups with a view to solving some of their problems within the next twenty-four hours. Delegates were invited to note any mistakes or printing errors and submit them to the Secretariat in writing by the evening of Tuesday, 12 March. Major modifications could not be accepted and it should be left to the Planning Group Chairmen to see how far corrections could be included.

2.5 The Chairman of Planning Group 5B, referring to Document 121 containing the list of unsatisfied requirements, pointed out that some 250 of the approximately 600 entries had not been dealt with in the planning process. For example, DSC requirements had not been included, but would be covered by Allotment Plans, and in some cases, where two requirements for a particular coast station had been submitted, one for A1A and one for F1B, with a request for the same frequency, they had been treated as one requirement and one unsatisfied requirement. The list should therefore be viewed with that information in mind.

2.6 The delegate of the USSR expressed his disappointment with the results of the first planning exercise. A quick examination of Document 101 showed that some countries had had almost every assignment in the 2 MHz band for telephony satisfied, whereas not one of the 8 Soviet ports in the Baltic had had a telephony frequency satisfied in the 2 MHz band, which would cause considerable difficulties for foreign

vessels entering those ports with telephony and requiring service. In short, over 50% of the USSR's frequency requirements remained unsatisfied after the second planning exercise as compared with 42% after the first planning exercise.

2.7 The Chairman of Planning Group 5B said that no individual calculations had been made for administrations: one explanation, however, might be that the list in Document 101 included a large number of double requirements for A1A and F1B traffic at some coast stations, which had been listed as one satisfied requirement in Document 101 and as one unsatisfied requirement in Document 121, an arrangement which could not be changed at the present stage. For NBDP at 1 600 kHz, the assignment of two adjacent channels to one coast station had occurred in many cases and was due to the fact that the adjacent channel protection ratio adopted by Committee 4 had made adjacent channel operation feasible at one and the same coast station, although it had not always been so in the run of the program. It should be clear, however, that no manual attempts had been made to favour one administration or disfavour another.

2.8 The Chairman of Sub-Group 5B-2 said that the principles used were set out in Document 63, which explained inter alia the order of priority for radiotelephony on 2 MHz. The Group had used replacement frequencies for Resolution No. 38 frequencies and replacement frequencies for the band to be planned as the first priority. There were only two first priority frequencies in the USSR. The second priority was for new requirements. In order to average the spread of available frequencies, the Group had started with one frequency per coast station that had not received an assignment within the first priority. In the second computer run an attempt had been made to meet all requirements, including those of the USSR, which had 92 requirements, of which only 33 had been satisfied. Since that Administration had agreed to use the same frequency for different stations it now seemed possible to meet a further 22 of its requests.

He suggested that the delegation of the USSR and other countries with similar problems should contact him, although he was not optimistic that such a positive result would be possible for all other similar cases.

2.9 The delegate of Czechoslovakia said that it had been stated that coverage of coast stations was to be limited to 500 km. Czechoslovakia had not been allocated frequency 514.0 because of the shore distance from Szczcin which had a coverage of 800 nautical miles (about 1,700 km), the coverage of the Czech station being 90 km. However, Switzerland was able to reach any assignment in the band 510 - 526. He wondered whether the principle was in fact being applied.

2.10 The Chairman of Planning Group 5B confirmed that the range actually taken into account with respect to the coast stations in the 500 kHz band was 500 km in nautical miles, even though a coast station on the list might have a higher range. Planning Group 5B had taken into account 500 km for coast stations assigned first, second and third priorities, 200 km for priority 4 and 100 km for priority 5. The actual range for each country could be seen only in the individual lists and it was not possible for a delegation to check on the range obtained for a possible interfering coast station of another administration without checking that administration's list.

2.11 The delegate of Tunisia endorsed the views of the USSR delegate. His Administration had 37 satisfied and 35 unsatisfied requirements in the 500 kHz and 2 MHz bands. Seven of its radiobeacon requirements had been satisfied and nine had not. There were four different coastal stations in each port in Tunisia which required frequencies.

2.12 The Chairman of Sub-Group 5B 2 pointed out that of the 46 requirements received from Tunisia, a relatively small country, 33 had not been met. Indeed it would have been impossible to accommodate all those requirements in a Plan in which neighbouring countries' requirements had to be met as well. Tunisia had 13 frequencies in the 2 MHz band, approximately the same as countries of a similar size in the Region.

2.13 The Chairman observed that it was very difficult to satisfy all requirements in the most crowded areas, but there still remained time to look at the requirements again; he therefore suggested that delegations should contact the Chairman of the Planning Groups and Sub-Groups outside the meeting.

2.14 The delegates of the USSR and Poland reserved the right to return to the matter of their dissatisfaction with the number of assignments allotted to their Administrations in Plenary.

2.15 The delegates of Algeria, Denmark, Ghana, the Federal Republic of Germany, Iraq, Italy, Kuwait, Poland and the United Kingdom and the Chairman of Planning Groups 5A and 5B drew the Committee's attention to a number of errors, omissions and inconsistencies in the assignments to the Plan as printed in Document 101.

2.16 The Chairman said that appropriate corrections would be made by the Planning Groups when they were preparing the final draft of the Plan for submission to the Plenary.

On that understanding, the draft Plan in Document 101 was approved subject to the reservations expressed by Poland and the USSR.

Draft plan for the aeronautical radionavigation service (radiobeacons)
(Document 102)

2.17 The Chairman, referring to the fact that the Committee had earlier decided not to assign the band limit frequency 415 kHz within the Plan, proposed that ad hoc Group 4, which was still meeting, should be requested to draft an appropriate Resolution on the subject for submission direct to the Plenary.

It was so agreed.

2.18 The delegate of the Federal Republic of Germany proposed that since the coordinates in columns 6 and 7 were identical they should be omitted from column 7 and the legend for column 7 on the introductory page should be amended to read only "radius (km) of the circular service area".

It was so agreed.

He also said that since the class of emission determined the bandwidth required, only the class of emission should appear in column 9, the standard bandwidths of the two classes of emission concerned being given in an introductory note.

2.19 The Chairman of the IFRB said that in that case the standard bandwidth for A1A emissions would be 100 Hz.

2.20 The delegate of the United Kingdom, following a comment by the delegate of the Federal Republic of Germany, said that the two ICAO standard modulations for A2A radiobeacons were 400 and 1 020 Hz, proposed that the standard bandwidths for A2A emissions should be twice those frequencies plus the tolerances i.e. 850 and 2 140 Hz.

The Federal Republic of Germany's proposal was approved with the standard bandwidths mentioned above.

2.21 The Chairman noted that the footnote in Document 111(Corr.1), Annex 2, should be added to the introductory information paragraph.

2.22 The delegate of Czechoslovakia said that Czechoslovakia had not obtained four frequencies that were essential for the operation of its radiobeacon network and would reserve its position with regard to the Plan as printed in Document 102.

2.23 In that context the delegate of Switzerland noted that not a single frequency in the 500 kHz band had been assigned to radiobeacon stations in central Europe: his country would experience considerable difficulty as a result.

2.24 The Chairman of Planning Sub-Group 5A-1 said that in submitted requirements for coast stations in the maritime mobile services, administrations had generally not included information on directivity. Hence the Planning Group in its calculations had had to assume the worst possible situation, i.e. that such stations had non-directional antennas and were therefore likely to suffer harmful interference from radiobeacons a considerable distance inland, for example in central Europe. That was why there were few assignments to radiobeacon stations in central Europe or to a large inland area in Africa.

2.25 The delegate of the Federal Republic of Germany noted that directional antennas for emissions in the 500 kHz band were still in the experimental stage. The great majority of stations were still using non-directional antennas; thus the Planning Group's calculations had been based on valid information.

2.26 The delegates of Cameroon, Ghana, Kenya, the USSR and Yugoslavia drew the Committee's attention to a number of errors, omissions and inconsistencies in the assignments to the Plan as printed in Document 101. The Chairman said that appropriate corrections would be made by the Planning Groups when they were preparing the final draft of the Plan for submission to the Plenary.

On that understanding, the radiobeacon Plan in Document 102, as amended, was approved subject to the reservations expressed by Czechoslovakia and Switzerland.

List of non-satisfied requirements in the maritime mobile service
(Document 121)

2.27 The Chairman of Working Group 5A said that he had a further list of stations not included in the document.

2.28 The Chairman recalled the Committee's decision to submit lists of unsatisfied requirements for the two services to the Plenary as Conference documents, together with a draft Recommendation to the Secretary-General that they be circulated to all administrations in Region 1 after the Conference. He was not proposing to go through the lists in detail but suggested their adoption as a whole for submission to the Plenary Meeting.

2.29 The delegate of Tunisia said he had made a list of his country's existing stations which appeared neither in the Plan nor in Document 121 and he wished to know if they were to be maintained.

2.30 The delegate of Denmark said that he could not explain the Tunisian situation but it was essential for administrations to check that all their requirements had been taken into account and were in either the Plan or Document 121, because there was no possibility of more assignments after the next planning round.

2.31 The Chairman of the IFRB said the answer might be that Tunisia had submitted its new requirements but not those for existing stations. The result would be that only the new requirements had been planned. The Conference decision to include Master Register entries in the Plan only referred to administrations which had not notified any requirements at all. Administrations which had omitted to maintain existing requirements when submitting new ones might wish to consider using the procedure for modifying the Plan to rectify the situation.

2.32 The delegate of Poland asked why his country's requirement for Gdynia, IFRB serial number 2304, appeared neither in the Plan nor in Document 121.

2.33 The delegate of Sweden said that a check on the Gdynia requirement had shown it to be for a frequency of 512 kHz. It did not appear in either Document 101 or Document 121 because existing assignments of the frequencies 490, 500, 512 and 518 kHz were to be maintained, and those frequencies were not being planned.

It was misleading to consider Document 121 as a final list of unsatisfied requirements. Some of those included had in fact been satisfied. In a number of cases where there had been requirements for both A1A and F1B transmissions on the same frequency, only the A1A requirement had been included in the Plan, on the understanding that the administration concerned could use it for F1B - NBDP transmissions if it so wished.

2.34 The Chairman pointed out that a day still remained to find suitable frequencies for the unsatisfied requirements listed in Documents 121 and 122.

2.35 The delegate of Kuwait said that his Administration vitally needed the 20 requirements for which it had asked. It could not afford to lose the five shown in Document 121 and he hoped the problem could be solved satisfactorily.

2.36 The delegate of Togo said that although his Administration had taken every step to maintain its existing requirements, there was no trace of them in the documents before the Committee.

2.37 The delegate of Sweden asked all delegations whose requirements had been misunderstood to consult the Planning Groups directly, so that an effort could be made to insert them in the Plan with the same priority as if they had been included in the first exercise.

2.38 Following a discussion in which the delegates of Denmark and Sweden and the Chairman of the IFRB took part, it was agreed that delegations would have until 12 noon on 12 March 1985 to submit requests for changes to the Planning Groups.

2.39 The Chairman said that delegations should explain their problems directly to the Planning Groups and asked the Chairmen of Working Groups 5A and 5B to ensure that Documents 121 and 122 were subjected to a final revision before submission to the Plenary Meeting.

2.40 The delegate of Sweden said he wished to emphasize that it was no longer possible to consider modifications to requirements, but only the rectification of misunderstandings. The highest priority would have to be given to correcting any misunderstandings and improving the Plan.

In response to an expression of concern from the delegate of Spain, he said that a request for the reallocation of an assigned frequency from a less important coast station to meet the unsatisfied requirement of a more important one nearby would be an acceptable correction to the Plan.

2.41 The Chairman said that a revised and corrected version of Document 121 would be submitted to the Plenary Meeting on 13 March 1985.

List of non-satisfied requirements for the aeronautical radionavigation service (beacons) (Document 122)

2.42 The delegate of France proposed two guidelines to be followed when considering unsatisfied requirements. The first was that where one country wished to keep an assignment which the computer found to conflict with an unsatisfied requirement from a neighbouring country, the existing usage should be maintained. Secondly, where there was a clash between two existing uses, account should be taken of the date of their first assignment in the Master Register.

2.43 The Chairman said that the guidelines might be contrary to priorities already decided by the Committee. He urged delegates to deal with their problems directly with the Chairman of the Planning Groups and to leave room for flexibility in solving them. A revised version of Document 122 would also be submitted to the Plenary Meeting on 13 March 1985.

3. Approval of summary records of the first to fourth meetings of Committee 5 (Documents 47, 51, 55 and 73)

3.1 The delegate of Algeria proposed that any amendments to the summary records under consideration should be submitted to the Secretariat in writing.

It was so agreed.

3.2 The Chairman inquired if the Committee wished to observe the precedent of authorizing its Chairman and Secretary to approve summary records of its proceedings which were still to appear.

It was so decided.

4. Reassignment of replacement frequencies in accordance with Resolution No. 38 of WARC-79 (Document 26)

4.1 The Chairman said he understood that all the replacement frequencies for stations of the maritime mobile service required by Resolution No. 38 of WARC-79 had been provided. He therefore wished to state, for the record, the following. Document 26, Annex 1, listed those assignments to stations in the maritime mobile service that were entered in the Master Register in the frequency bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz. In accordance with Resolution No. 38, those assignments needed to be replaced by assignments in the Plan. During the planning process, priority had been attached to satisfying those requirements and delegations were invited to check in the draft Plan that replacement frequencies had been found for all the assignments in question. In the absence of any contrary view being expressed on request in the Committee, the consequential action would be to delete from the Master Register all assignments to stations in the maritime mobile service listed in Annex 1 to Document 26.

5. Completion of the work of the Committee

5.1 After the customary exchange of courtesies, the Chairman said that the work of the Committee had been concluded.

The meeting rose at 2345 hours.

The Secretary: The Chairman:

G. KOVAKS T. BOE

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 148-E
13 March 1985

R.1 (MM) PLENARY MEETING

FIRST SERIES OF TEXTS SUBMITTED BY THE EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for second reading:

Source	Document	Title
B.1	105	Regional Agreement
B.2	120	

J.-L. BLANC
Chairman of Editorial Committee

Annex: 14 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

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Regional Agreement Concerning the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), Geneva, 1985

Preamble

The delegates of the following Members of the International Telecommunication Union:

[List of countries]

meeting in Geneva for a Regional Administrative Radio Conference convened under the terms of Article 7 of the International Telecommunication Convention, Nairobi, 1982, have adopted subject to the approval of the competent authorities of their respective countries the following provisions relating to the maritime mobile service and the aeronautical radionavigation (radiobeacon) service in Region 1.

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ARTICLE 1

Definitions

1. For the purpose of this Agreement, the following terms shall have the meanings defined below:

Union: The International Telecommunication Union;

Secretary-General: The Secretary-General of the Union;

IFRB: The International Frequency Registration Board (also referred to as the Board);

CCIR: The International Radio Consultative Committee;

ICAO: The International Civil Aviation Organization;

Convention: The International Telecommunication Convention, Nairobi, 1982;

Radio Regulations: The Radio Regulations, Geneva, 1979, as revised by the WARC-MOB-83, annexed to the Convention;

Region 1: The geographical area defined in No. 393 of the Radio Regulations;

Agreement: The whole of this Agreement including its Annexes;

Plans: The Plans forming Annexes 1 and 2 to this Agreement;
Contracting Member: Any Member of the Union which has approved or acceded to this Agreement;

Administration: Any governmental department or service responsible for discharging the obligations undertaken in the International Telecommunication Convention and the Radio Regulations;

Pairing (as applied to the Plans for the maritime mobile service): A method of assigning two frequencies, one to be used by a coast station for transmission when communicating with ships, the other to be assigned to the same coast station for reception, to be used by ships for transmission when communicating with that coast station;

Assignment in conformity with the Agreement: Any frequency assignment appearing in any of the Plans or any frequency assignment for which the procedure of Article 4 has been successfully applied.

PINK PAGES

ARTICLE 2

Frequency Bands

2. The provisions of this Agreement apply in Region 1 to the following services in the bands allocated to them under Article 8 of the Radio Regulations:

a) 415 - 435 kHz allocated to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) 435 - 495 and 505 - 526.5 kHz allocated to the maritime mobile service on a primary basis;

c) 505 - 526.5 kHz allocated to the aeronautical radionavigation service on a permitted basis;

d) 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz allocated to the maritime mobile service on a primary basis.

These provisions also apply to:

e) Fixed and land mobile services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a permitted basis (primary in the countries listed in No. 483 of the Radio Regulations);

f) the radiodetermination service (No. 484), after successful application of the procedure of Article 14 of the Radio Regulations.

ARTICLE 3

Execution of this Agreement

3. The Contracting Members shall adopt, for their stations in the aeronautical radionavigation service operating in Region 1 in the frequency bands referred to in this Agreement, the characteristics specified in the Plan in Annex 2.

4. The Contracting Members shall adopt, for their stations in the maritime mobile service operating in Region 1 in the frequency bands referred to in this Agreement, the characteristics specified in the Plan in Annex 1.

5. The Contracting Members shall not bring assignments complying with the Plans into use, modify the technical characteristics of stations specified in the Plans, or bring new stations into use, except under the conditions specified in Articles 4 and 5 of this Agreement.

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6. When assigning frequencies to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, Contracting Members shall take account of the frequency assignments to stations of the maritime mobile service which are in conformity with the Agreement or for which the modification procedure contained in Article 4 has been initiated.

7. The Contracting Members shall endeavour to coordinate their efforts with a view to reducing any harmful interference that may result from the application of this Agreement.

8. In order to avoid mutual interference between stations in the Plan, administrations shall take all necessary steps to ensure that the frequencies used for radiotelephony in the bands 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are used only within the coverage area specified in the Plan.

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ARTICLE 4

Procedure for modifications to the Plans

SECTION A - GENERAL

1. When a Contracting Member proposes to make a modification to a Plan:

a) by modifying the characteristics of a station of the maritime mobile service or the aeronautical radionavigation service shown in the appropriate Plan, whether or not the station has been brought into use; or

b) by bringing into use an assignment to a station of the maritime mobile service or the aeronautical radionavigation service not appearing in any of the appropriate Plans; or

c) by modifying the characteristics of a frequency assignment to a station of the maritime mobile service or the aeronautical radionavigation service for which the procedure in this article has been successfully applied, whether or not the station has been brought into use; or

d) by deleting from the appropriate Plan a frequency assignment to a station of the maritime mobile service or the aeronautical radionavigation service;

the following procedure shall be applied before any notification is made under Article 12 of the Radio Regulations (see Article 5 of this Agreement).

SECTION B - PROCEDURE FOR THE MARITIME MOBILE SERVICE

Procedure for modifying the characteristics of an assignment or for bringing into use a new assignment

2. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.

3. For the purposes of this procedure, these other administrations shall be any which have:

a) assignments in the Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex 5 to this Agreement;

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b) assignments recorded in the Master Register for stations of services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a primary or permitted basis which may be affected according to the provisions of No. 1241 of the Radio Regulations together with the technical criteria contained in Annex 6.

4. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall so inform the IFRB and shall furnish to the IFRB the characteristics listed in Appendix 1 to the Radio Regulations and the names of the administrations with which it considers agreement should be sought and with which agreement has been reached.

4bis) The IFRB shall examine the information received from the standpoint of its conformity with the channelling arrangement contained in Annex 3 to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

5. The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in paragraph 3 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board shall at the same time inform those administrations having assignments which it considers, in accordance with paragraph 3, may be affected.

6. An administration which considers that it should have been included in the list of administrations whose frequency assignments may be affected shall inform the administration proposing the modification or addition to the Plan in question and the IFRB. At the same time it shall, giving its reasons for so doing, request the IFRB to include its name in the list.

7. If an administration has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 5, the IFRB shall send a reminder to the administration concerned inviting it to reply urgently to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

8. If, in seeking agreement, an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administration with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of paragraph 3 and the subsequent procedure for those administrations.

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9. Following the expiry of the period specified in paragraph 7, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

10. If no agreement is reached between the administrations concerned, the IFRB shall make any study of the matter that may be requested by one or more of those administrations; the Board shall inform them of the results of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

11. Before initiating this procedure and at any stage thereof, an administration may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

12. If, after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also paragraph 30).

13. If, after application of the procedure described in this section, the agreement of the administration concerned cannot be reached, the two administrations may resort to one of the methods for the settlement of disputes described in Article 50 of the Convention or they may agree to apply the Optional Additional Protocol to the Convention.

14. The proposed assignment may, despite continuing disagreement, be notified in accordance with Article 12 of the Radio Regulations. However, the relevant provisions of Article 5 of the Agreement shall then be applied.

SECTION C - PROCEDURE FOR THE AERONAUTICAL RADIONAVIGATION SERVICE

Procedure for modifying the characteristics of an assignment or for bringing into use a new assignment

15. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.

16. For the purposes of this procedure, these other administrations shall be those which have assignments in the Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex 5 to this Agreement.

17. Where any ICAO coordination of the operational aspects of a proposed assignment is appropriate, this should be completed before commencement of the following procedure.

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18. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall so inform the IFRB and shall furnish to the IFRB the characteristics listed in Appendix 1 to the Radio Regulations and the names of the administrations with which it considers agreement should be sought and with which agreement has been reached.

[18bis) The IFRB shall examine the information received from the standpoint of its conformity with the channelling arrangement contained in Annex 3 to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.]

19. The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in paragraph 16 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board shall at the same time inform those administrations having assignments which it considers, in accordance with paragraph 16, may be affected.

20. An administration which considers that it should have been included in the list of administrations whose frequency assignments may be affected shall inform the administration proposing the modification or addition to the Plan in question and the IFRB. At the same time it shall, giving its reasons for so doing, request the IFRB to include its name in the list.

21. If an administration has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 19, the IFRB shall send a reminder to the administration concerned inviting it to reply urgently to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

22. If, in seeking agreement, an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administration with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of paragraph 16 and the subsequent procedure for those administrations.

23. Following expiry of the period specified in paragraph 21, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

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24. If no agreement is reached between the administrations concerned, the IFRB shall make any study of the matter that may be requested by one or more of those administrations; the Board shall inform them of the results of the study and shall make such recommendations as it may be able to offer for the solution of the problem.

25. Before initiating this procedure and at any stage thereof, an administration may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

26. If, after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also paragraph 30).

27. If, after application of the procedure described in this section the agreement of the administration concerned cannot be reached, the two administrations may resort to one of the methods for the settlement of disputes described in Article 50 of the Convention or they may agree to apply the Optional Additional Protocol to the Convention.

28. The proposed assignment may, despite continuing disagreement, be notified in accordance with Article 12 of the Radio Regulations, however, the relevant provisions of Article 5 of the Agreement shall then be applied.

SECTION D - CANCELLATION OF ASSIGNMENTS

29. An administration proposing to cancel an assignment in any of the Plans, whether or not as a result of a modification (for instance a change of frequency), shall immediately so inform the IFRB. The Board shall publish this information in a special section of the weekly circular as a modification to the Plan.

30. If, after a period of two years from the date of entry of an assignment in the Plan, following the application of the procedure contained in this Article, the IFRB has not received a notice relating to its bringing into use, that assignment shall be deleted from the Plan. Before taking such action, the Board shall consult with the administration concerned on the appropriateness of such deletion and if, the circumstances so warrant, it may be postponed for a maximum period of six months.

30bis. Every three years, the Board shall consult administrations of Contracting Members with a view to drawing their attention to Recommendation No. COM 6/D and to request them to cancel assignments appearing in the Plan adopted by the Conference and which are no longer required; the Board shall also inform Contracting Members of the results of these consultations.

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SECTION E - MAINTENANCE AND PUBLICATION OF PLANS

31. The IFRB shall maintain an up-to-date master copy of the Plans, taking account of the application of the procedure specified in this Article; to this end the IFRB shall periodically prepare recapitulative documents listing all amendments made to the Plans as a result of modifications made in accordance with the procedures of this Article, new assignments added in conformity with this Agreement, and any cancellations notified to the Board.

32. The Secretary-General shall publish an up-to-date version of each Plan in an appropriate form as and when required by circumstances and in any case every five years.

ARTICLE 5

Notification of frequency assignments

33. Whenever an administration intends to bring into use an assignment in conformity with this Agreement, it shall notify the assignment to the IFRB under Article 12 of the Radio Regulations.

34. Notices of frequency assignments in conformity with this Agreement shall not be examined by the Board under No. 1241 with respect to frequency assignments recorded in the Master Register on behalf of Contracting Members for stations of primary or permitted services.

35. Notices of frequency assignments submitted under paragraphs 14 and 28 of Article 4 for which it has not been possible to reach agreement shall be treated as follows:

a) when the disagreement of the administration concerned relates to an assignment in conformity with this Agreement, the notified assignment shall be recorded in the Master Register with a special remark indicating that the entry has been made subject to the condition that no harmful interference shall be caused to the assignment of the administration with which agreement has not been reached;

b) when the disagreement of the administration concerned relates to an assignment recorded in the Master Register for a station of a primary or permitted service, the notified assignment shall not be recorded in the Master Register until the provisions of No. 1255 of the Radio Regulations have been applied.

36. In relations between Contracting Members, all frequency assignments brought into service in conformity with this Agreement and recorded in the Master Register shall be considered as having the same status irrespective of the date or dates entered in Column 2 for such assignments.

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ARTICLE 6

Procedure applicable to new assignments in the non-planned permitted and primary services

37. In order to permit the compatible development of the primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz, the IFRB shall examine, in accordance with No. 1245 of the Radio Regulations, the frequency assignments of these other services notified by Contracting Members. To this effect, the following provisions shall be applied.

38. The Board shall examine the frequency assignment with respect to the probability of harmful interference to the service provided or to be provided by a frequency assignment:

a) which is already recorded in the Master Register and bears a date in Column 2a; or

b) which is recorded in the Master Register and is in conformity with No. 1240 of the Radio Regulations with a date in Column 2b, but has not in fact caused harmful interference to any frequency assignment with a date in Column 2a or to any assignment in conformity with No. 1250 with an earlier date in Column 2b;

c) which is in conformity with this Agreement but has not yet been notified in accordance with Article 5;

d) which was published in a special section of the weekly circular in accordance with paragraph 5 (Article 4).

39. In the event of an unfavourable finding relating to a frequency assignment described in paragraphs 38 c) or 38 d), if the administration resubmits the notice under No. 1255 of the Radio Regulations, the period of two months specified in No. 1259 shall not start until the assignment which forms the basis for the unfavourable finding is brought into service.

40. For the purpose of these examinations, the Board shall apply the technical criteria contained in Annex 6 to this Agreement.

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ARTICLE 7

Special Arrangements

[ ] In addition to the procedures provided for in Articles 4 and 6 of this Agreement and to facilitate their application with a view to improving the utilization of the Plans, Contracting Members may conclude special arrangements in accordance with the relevant provisions of the Convention and of the Radio Regulations.

ARTICLE 8

Scope of Application of this Agreement

[ ] This Agreement shall bind Contracting Members in their relations with one another but shall not bind those Members with respect to non-contracting countries.

[ ] If a Contracting Member makes reservations with regard to any provision of this Agreement, other Contracting Members shall be free to disregard that provision in their relations with the Contracting Member which has made such reservations.

ARTICLE 9

Approval of this Agreement

[ ] This Agreement shall be subject to approval by the competent authorities of the countries on behalf of which the Agreement was signed. Instruments of approval shall be deposited, in as short a time as possible, with the Secretary-General, who shall inform all the Members of the Union.

PINK PAGES

ARTICLE 10

Accession to this Agreement

[ ] Any Member of the Union in Region 1 which has not signed this Agreement may accede thereto at any time. Such accession shall extend to the Plans as they stand at the time of the accession and shall be made without reservation. The instruments of accession shall be deposited with the Secretary-General who shall promptly inform all the Members of the Union. After the date of entry into force of this Agreement, for each Member acceding to the Agreement it shall enter into force on the date of the deposit by such a Member of its instrument of accession.

ARTICLE 11

Termination of Participation in this Agreement

[ ] Any Contracting Member shall have the right at any time to terminate its participation in this Agreement by a notification sent to the Secretary-General who shall inform all the Members of the Union.

[ ] Such termination of participation shall take effect after a period of one year from the date of receipt by the Secretary-General of the said notification.

[ ] On the date on which the termination of participation becomes effective, the IFRB shall delete from the Plans the assignments entered in the name of the Member concerned.

ARTICLE 12

Revision of the Agreement

[ ] No revision of this Agreement shall be undertaken except by a competent administrative radio conference of the Members of the Union in Region 1, convened in accordance with the procedure laid down in the Convention.

ARTICLE 13[*]

Abrogation and Replacement of the Copenhagen Convention, 1948 and the Copenhagen Plan Annexed Thereto

[ ] The present Agreement and the Plans annexed hereto are considered to be the appropriate instruments to abrogate the European Regional Convention for the Maritime Mobile Radio Service, Copenhagen, 1948 and the Plan annexed thereto, which both, in accordance with the provisions of Article 7 of that Convention, shall be abrogated as from the entry into force of the present Agreement and the Plans annexed hereto and replaced by the latter.

[* Text taken from Document 130 of Committee 6.]

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ARTICLE 14[*]

Entry into Force of this Agreement

[ ] This Agreement shall enter into force on [ ] at 0001 hours UTC except for the bands 490 - 495 kHz and 505 - 510 kHz to which the Agreement shall be applied as from the date to be adopted by a competent administrative radio conference in accordance with No. 471 of the Radio Regulations and Resolution No. 206 (MOB-83) of the World Administrative Radio Conference for Mobile Services, Geneva, 1983.

In witness whereof the delegations of Members of the Union mentioned above have, on behalf of their respective competent authorities, signed this Agreement in a single copy in the Arabic, English, French, Russian and Spanish languages in which, in case of dispute, the French text shall be authentic. This copy shall remain deposited in the archives of the Union. The Secretary-General shall forward one certified copy to each Member in Region 1.

Done at Geneva, [...] March, 1985.

[* Text taken from Document 130 of Committee 6.]

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 149-E
13 March 1985

R.2 (MM)

PLENARY MEETING

SECOND SERIES OF TEXTS SUBMITTED BY THE
EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for first reading:

Source	Document	Title
B.4 (MM)	127	Annex 4 - Technical data Annex 5 Annex 6

J.-L. BLANC
Chairman of the Editorial Committee

Annex: 12 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

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ANNEX 4

TECHNICAL DATA

Technical parameters used in establishing the frequency assignment plans in Region 1 for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and for the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz

1. Maritime mobile service

1.1 Class of emission

The Plan for the maritime mobile service was established for the following classes of emission in accordance with the channel arrangements as indicated in Annex 3.

1.1.1 Morse telegraphy, class of emission A1A, bands 415 - 435 kHz and 435 - 526.5 kHz.

1.1.2 Narrow-band direct-printing telegraphy (transmission rate 100 bauds, frequency shift 170 Hz), class of emission F1B and digital selective calling (transmission rate 100 bauds, frequency shift 170 Hz), class of emission F1B in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz.

1.1.3 Single-sideband telephony (upper sideband), class of emission J3E in the bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz.

1.2 Propagation

The Plans were established using ground-wave propagation values which were calculated according to CCIR Recommendation 368-4 for propagation over sea water, average salinity, 20°C, σ = 5 S/m and ε = 70. For the bands 415 - 435 kHz, 435 - 526.5 kHz and above 1 606.5 kHz the curves for 400 kHz, 500 kHz and 2 MHz, respectively, were used. The curves applied are given in Figure 1; they refer to an e.m.r.p. of 1 kW.

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1.3 Minimum field strength to be protected

The following values of the minimum field strength to be protected, which include allowances for variations in noise level with time and signal fading with time, were applied:

1.3.1 Class of emission A1A

Bands 415 - 435 kHz and 435 - 526.5 kHz:

36.5 dB(μV/m) north of and on parallel 30° North, and
56.5 dB(μV/m) south of parallel 30° North.

1.3.2 Class of emission F1B

Since the emission characteristics of narrow-band direct printing and digital selective calling are essentially the same, they require the same minimum field strength to be protected.

Bands 415 - 435 kHz and 435 - 526.5 kHz:

31.5 dB(μV/m) north of and on parallel 30° North, and
51.5 dB(μV/m) south of parallel 30° North.

Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz:

22.5 dB(μV/m) north of and on parallel 30° North, and
42.5 dB(μV/m) south of parallel 30° North.

1.3.3 Class of emission J3E

Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz:

37 dB(μV/m) north of and on parallel 30° North, and
57 dB(μV/m) south of parallel 30° North

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1.4 Protection ratio

The following values of protection ratio (see No. 164 of the Radio Regulations) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB		
	Wanted signal		
	A1A interfering signal A1A or F1B	F1B interfering signal F1B or A1A	J3E interfering signal J3E
0	8	8	20
0.5	-13	-38	
1.0	-26	-62	
1.5	-42		
2.0	-60		
3.0			-25
6.0			-50

Note - Since the emission characteristics of narrow-band direct printing (class of emission F1B) and digital selective calling (class of emission F1B) are essentially the same, they have the same interference potential and require the same protection ratios.

1.5 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering signal was considered.

1.6 Channel spacing

1.6.1 Planning was based on a channel spacing of 0.5 kHz for A1A and F1B emissions.

1.6.2 Planning was based on a channel spacing of 3 kHz for J3E emissions.

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1.7 Radiated power

The effective monopole radiated power (e.m.r.p., see No. 157 of the Radio Regulations) was derived from the minimum field strength to be protected at the edge of the coverage area. The power supplied to the antenna transmission line was derived from the e.m.r.p. by applying the following typical values of antenna gain (see No. 154 of the Radio Regulations) relative to a short vertical antenna, which include the loss of the antenna coupling unit:

1.7.1 Bands below 526.5 kHz: -7 dB;

1.7.2 Bands above 1 606.5 kHz: -4 dB.

1.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the plan could not take account of propagation over mixed land/sea paths. This was, however, taken into consideration by administrations in a case by case analysis, when solving incompatibilities during the Conference.

2. Aeronautical radionavigation service

2.1 Classes of emission

The Plan for the aeronautical radionavigation service in the bands 415 - 435 kHz and 510 - 526.5 kHz was established on the basis of class of emission NØN; however, it indicates only the classes of emission used during the transmission of the identification signal (A1A, A2A, etc.). Two types of beacon with class of emission A2A are generally used, i.e. with modulation frequencies of 400 Hz (±25 Hz) and 1 020 Hz (±50 Hz).

2.2 Propagation

The ground-wave mode of propagation only was used. Ground-wave field strength was calculated according to CCIR Recommendation 368-4 for propagation over wet ground, σ = 10-2 S/m, ε = 30. For the bands 415 - 435 kHz and 510 - 526.5 kHz the curves for 400 kHz and 500 kHz, respectively, were used. They are given in Figure 2 and refer to an e.m.r.p. of 1 kW.

For propagation over mixed land/sea paths see section 2.8.

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2.3 Minimum field strength to be protected

The following values of the minimum field strength to be protected (see also Nos. 2856 and 2857 of the Radio Regulations) were applied:

2.3.1 37 dB(μV/m) for stations north of parallel 30o North and south of parallel 30° South;

2.3.2 41.6 dB(μV/m) for stations between parallels 30° North and 30° South.

2.4 Protection ratio

The following values of protection ratio (see Nos. 164 and 2854 of the Radio Regulations) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB
0	15
0.5	15
1	9
1.5	2
2	-5
2.5	-12.5
3	-20
3.5	-27.5
4	-35
4.5	-42.5
5	-50
5.5	-57.5
6	-65

2.5 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering signal was considered.

2.6 Channel spacing

Planning was based on a channel spacing of 1 kHz. However, in exceptional cases, and for national use only, interleaved channels at 0.5 kHz were used without adversely affecting assignments in the Plan on integer multiples of 1 kHz.

2.7 Radiated power

The effective monopole radiated power (e.m.r.p., see No. 157 of the Radio Regulations) was derived from the minimum field strength to be protected at the edge of the coverage area.

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2.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the Plan could not take account of propagation over mixed land/sea paths. Section 2.2 indicates that the propagation characteristics were predicted as for "wet ground". Hence in cases where a significant fraction of the path from an interfering emission to the wanted coverage area crosses sea water the predicted interference level may have been underestimated.

3. Compatibility between the maritime mobile service and the aeronautical radionavigation service in the planned bands

3.1 Protection of stations of the maritime mobile service against interference from stations of the aeronautical radionavigation service

3.1.1 The parameters given in sections 1.2, 1.3 and 1.5 to 1.8 were applied.

3.1.2 The protection ratios were as follows:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB			
	interfering radiobeacon with 400 Hz modulation		interfering radiobeacon with 1 020 Hz modulation	
	wanted signal A1A	wanted signal F1B	wanted signal A1A	wanted signal F1B
0	8	8	8	8
0.5	2	2	-13	-38
1.0	-19	-44	2	2
1.5	-32	-68	-19	-44
2.0	-48		-32	-68
2.5	-66		-48	
3.0			-66	

Note - These protection ratios were established on the basis of an A2A radiobeacon emission.

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3.2 Protection of stations of the aeronautical radionavigation service against interference from stations of the maritime mobile service

The parameters given in sections 2.2 to 2.8 were applied. It was assumed that a maritime mobile signal (A1A or F1B) has the same interference potential as an aeronautical radiobeacon signal.

4. Technical criteria applied for the reassignment of replacement frequencies for stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz according to Resolution No. 38 of the World Administrative Radio Conference, Geneva, 1979

The criteria given in section 1 and relevant to the bands above 1 606.5 kHz were applied.

5. Technical criteria applied for the protection of frequency assignments to stations of other services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated

Due to constraints in the available computer program, the computer analysis of the Plan could not take account of assignments to primary and permitted services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated. In order to resolve possible incompatibilities between the Plan and these primary and permitted services, the Conference adopted Resolution No. COM 6/4 (MM).

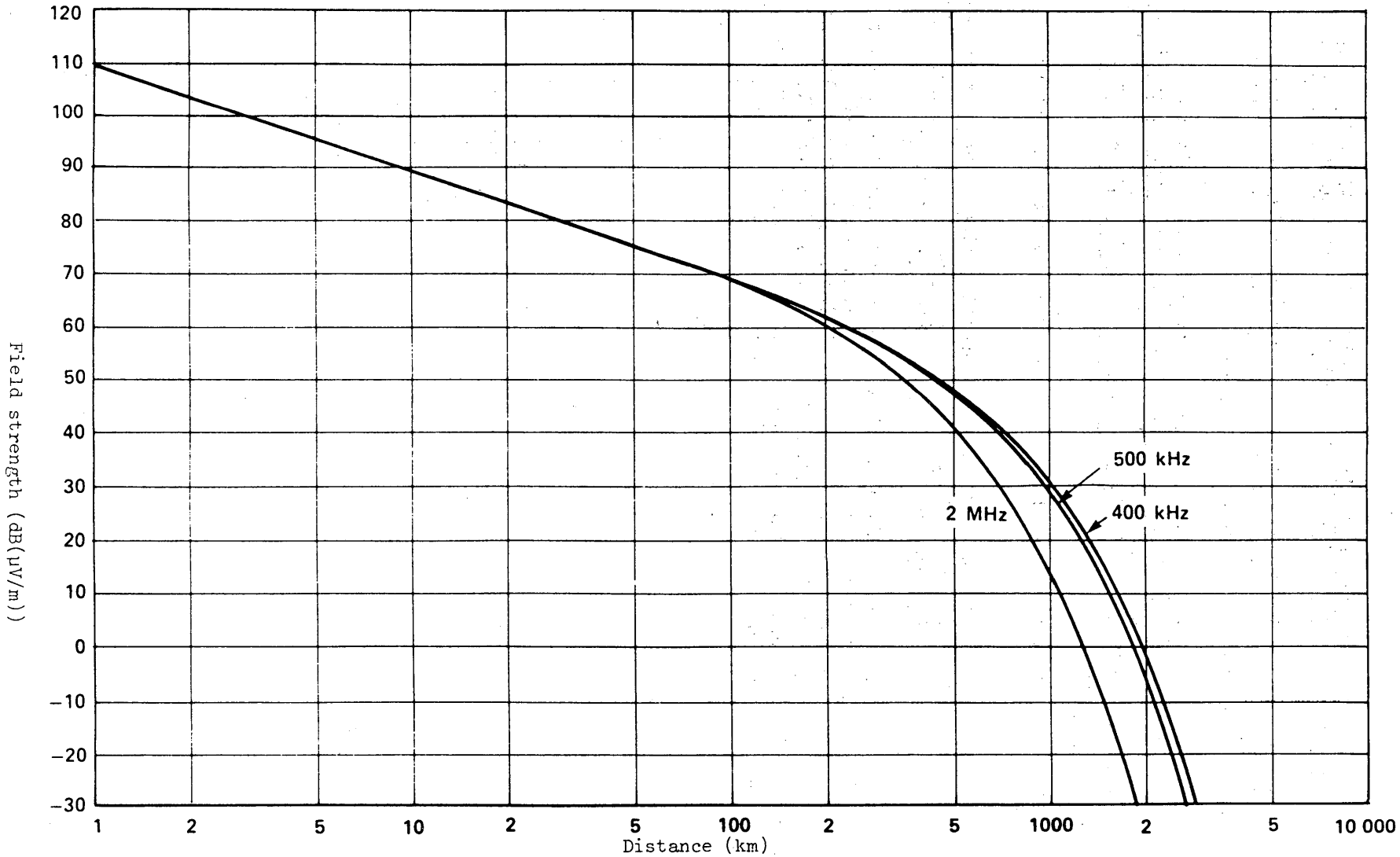


FIGURE 1

Ground-wave propagation - maritime mobile service

(see section 1.2)

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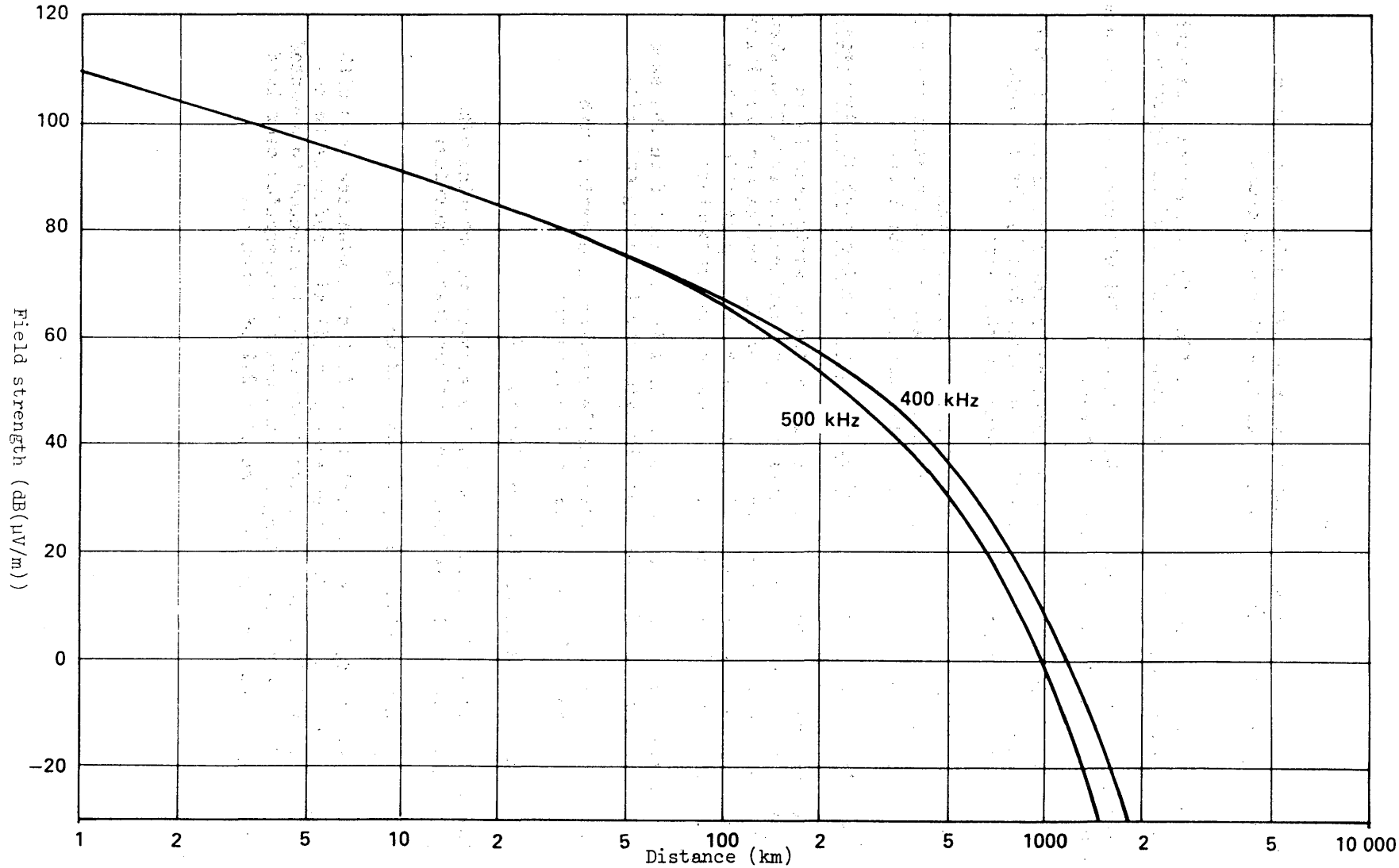


FIGURE 2

Ground-wave propagation - aeronautical radionavigation service

(see section 2.2)

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ANNEX 5

Criteria to be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement

The following criteria shall be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement.

For the purpose of this annex the following definitions are applicable to assignments in conformity with the Agreement:

- the service area of a coast station is the area limited on the one hand by the coast and on the other hand by the coverage range over sea which is recorded in the Plan;

- the service area of a station of the aeronautical radionavigation service is the area around this station limited by the coverage range which is recorded in the Plan.

1. Administrations having an assignment in conformity with the Agreement

1.1 The service rendered by a station for which an assignment is in conformity with the Agreement may be affected by a modification to a Plan when the wanted to unwanted signal ratio at any point of the service area resulting from the proposed modification to a Plan is less than the protection ratio indicated in sections 1.4, 2.4 or 3.1.2 of Annex 4, as appropriate.

1.2 The wanted to unwanted signal ratio shall be calculated in the same channel and in any of the adjacent channels using the following criteria.

a) Stations of the maritime mobile service interfering with stations of the maritime mobile service:

Annex 4, sections 1.2 and 1.3 to 1.7.

b) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:

Annex 4, sections 1.2, 1.7 and 2.3 to 2.7.

The Board, in communicating the list of administrations with which coordination is necessary, shall also indicate in the Special Section, for information only, the wanted to unwanted signal ratio resulting from the use of propagation over land (i.e. the data given in section 2.2 of Annex 4).

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c) Stations of the aeronautical radionavigation service interfering with stations of the aeronautical radionavigation service:

Annex 4, sections 2.2 to 2.7.

d) Stations of the aeronautical radionavigation service interfering with stations of the maritime mobile service:

Annex 4, sections 1.2, 1.3, 1.5, 1.6, 2.7 and 3.1.2.

2. Administrations having an assignment recorded in the Master International Frequency Register for an unplanned primary or permitted service in the Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

The service rendered by a station for which an assignment is recorded in the Master International Frequency Register may be affected by a modification to the Plan when the application of the relevant Technical Standards of the IFRB using ground-wave propagation results in an unfavourable finding.

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ANNEX 6

Criteria to be used by the IFRB in the examination under Article 6 of this Agreement of frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

When examining frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz under Article 6 of this Agreement, the IFRB shall use its relevant Technical Standards on the basis of ground-wave propagation.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 150-E
20 March 1985

P = Plenary
C = Committee
WG = Working Group

LIST OF DOCUMENTS

(101 - 150)

No.	Origin	Title	Destination
101	-	Draft Frequency Assignment Plan for stations in the Maritime Mobile Service in Region 1	C.5
102	-	Draft Frequency Assignment Plan for stations in the Aeronautical Radionavigation Service (Radiobeacons) in Region 1	C.5
103(Rev.1)	GRC	Greece - Proposals	C.4
104	C.6	First series of texts submitted to the Editorial Committee	C.7
105 +Corr.1	C.7	B.1	PL
106	SG	Position of the Conference accounts at 8 March 1985	C.3
107(Rev.1)	C.3	Report of the Budget Control Committee to the Plenary Meeting of the two Conferences	PL
108	C.5	Summary Record of the sixth meeting	C.5
109	C.5	Note from Chairman of Committee 5 to Committee 6	C.6
110 +Corr.1 & 2	C.2	Report of Committee 2 to the Plenary Meeting	PL
111 +Corr.1 & 2	C.5	First series of texts submitted to the Editorial Committee	C.7
112	C.6	Second series of texts submitted to the Editorial Committee	C.7
113	C.2	Summary Record of the second and last meeting	C.2
114	C.6	Note from Chairman of Committee 6 to the Plenary Meeting	PL
115	C.6	Note from Chairman of Committee 6 to the Editorial Committee	C.7

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ARCHIVES U.I.T. GENÈVE

No.	Origin	Title	Destination
116	ad hoc Group 3	Report of the Chairman of ad hoc Group 3 to Committee 5	C.5
117	ad hoc Group 4	Report of the Chairman of ad hoc Group 4 to Committee 5	C.5
118	C.6	Second Report of Committee 6 to PL	PL
119	C.6	Third series of texts submitted to the Editorial Committee	C.7
120	C.7	B.2	PL
121	-	List of non-satisfied requirements Maritime Mobile Service in Region 1	C.5
122	-	List of non-satisfied requirements Aeronautical Radionavigation Service (Radiobeacons)	C.5
123	ad hoc Group	Report of the Ad hoc Group of Committee 6	C.6
124 + Add.1	C.7	B.3	PL
125 + Corr.1	C.6	Summary Record of the fourth meeting	C.6
126	C.6	Summary Record of the fifth meeting	C.6
127	C.7	B.4	PL
128	C.6	Fourth series of texts submitted to the Editorial Committee	C.7
129	C.6	Third and last report to PL	PL
130	C.6	Note from the Chairman of C.6 to the Editorial Committee	C.7
131	C.5	Second and last series of texts submitted to the Editorial Committee	C.7
132	C.5	Second report to PL	PL
133	PL	Minutes of the third plenary meeting	PL

No.	Origin	Title	Destination
134	C.5	Summary Record of the seventh meeting	C.5
135 + Corr.1,2,3	-	Draft frequency assignment plan for stations in the Maritime Mobile Service in Region 1	PL
136	-	Draft frequency assignment plan for stations in the Aeronautical Service (Radiobeacons) in Region 1	PL
137	-	List of non-satisfied requirements (Maritime Mobile Service in Region 1)	PL
138	-	List of non-satisfied requirements Aeronautical Radionavigation Service (Radiobeacons) in Region 1	PL
139	C.6	Summary Record of the sixth meeting	C.6
140	ad hoc Group of C.6	First series of texts submitted to the Editorial Committee	C.7
141	SG	Information note by Canada	-
142	C.7	B.5	PL
143	SG	Final days of the Conference	-
144	C.6	Summary Record of the seventh and last meeting	C.6
145	-	Final Protocol	PL
146	C.7	B.6	PL
147	C.5	Summary Record of the eighth and last meeting	C.5
148	C.7	R.1	PL
149	C.7	R.2	PL
150	SG	List of documents	-

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 151-E
13 March 1985

R.3 (MM)

PLENARY MEETING

THIRD SERIES OF TEXTS SUBMITTED BY THE

EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for second reading:

Source	Document	Title	
B.5 B.2	142 120	Resolutions Nos.	: COM 5/1 (MM) COM 6/1 (MM) COM 6/2 (MM) COM 6/3 (MM) COM 6/4 (MM)
		Recommendations Nos.:	COM 5/A (MM) COM 5/B (MM)

J.-L. BLANC
Chairman of Editorial Committee

Annex: 20 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

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RESOLUTION No. COM 5/1 (MM)

Use of Channels for the Digital Selective Calling System in the Bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, according to Article 62 of the Radio Regulations, a digital selective calling system may be used if it is in full conformity with the relevant CCIR Recommendations;

b) that the CCIR has adopted the necessary Recommendations;

c) that the effectiveness of the digital selective calling system requires agreement between administrations with respect to the use of national channels which have been designated by this Conference;

d) that the administrations at this Conference agreed to an Allotment Plan (annexed to this Resolution) for the national channels;

invites

administrations which are providing an international public correspondence service to indicate for publication in the List of Coast Stations the periods of service during which an automatic watch will be maintained on the international and national digital selective calling channels;

invites further

administrations which wish to enter into a group in the Allotment Plan, or administrations included in the Plan wishing to make a modification in the Plan, to coordinate as far as possible their proposed changes with other interested and affected administrations in the group concerned. An administration which has decided to enter into a group or change group in the Allotment Plan shall inform the Secretary-General of its decision and it shall be published in the Annex to the List of Coast Stations. Administrations shall also notify to the IFRB, in accordance with Article 5 of the Agreement, the use of the frequencies contained in the Annexes to this Resolution which are not covered by the provisions of No. 1220 of the Radio Regulations;

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instructs the Secretary-General

1. to circulate this Resolution to all administrations responsible for coast stations in the countries or areas designated in the Allotment Plan in order to obtain their agreement to the Plan or to an adjustment of the Plan;

2. in the light of the foregoing, to update the Allotment Plan annexed to the List of Coast Stations;

3. in advance of the publication of any revision of the Allotment Plan in the List of Coast Stations, to notify any variation in the Plan through the Operational Bulletin.

Annexes: 2

ANNEX 1 TO RESOLUTION No. COM 5/1 (MM)

Allotment Plan for National Channels in the Digital Selective Calling System in the Band 435 - 526.5 kHz by Countries and Areas

Group 1, Channel No. 112 coast station transmitting frequency: 456.0 kHz ship station transmitting frequency : 459.0 kHz	
AZORES	MOROCCO (Mediterranean)
BELGIUM	MAURITANIA
BENIN	NIGERIA
COMORES	NORWAY
CAPE VERDE	OMAN
FRANCE	PORTUGAL
FINLAND	QATAR
GIBRALTAR	ST. HELENA
GAMBIA	SWEDEN (Baltic)
GREECE	SUDAN
ICELAND	SENEGAL
JORDAN	SYRIA
KUWAIT	TUNISIA
LEBANON	UNITED ARAB EMIRATES
MAURITIUS	YEMEN ARAB REPUBLIC
MONACO	YEMEN (P.D.R. OF)
MADAGASCAR	YUGOSLAVIA
MADEIRA	ZAIRE
I. MARION	

Group 2, Channel No. 113 coast station transmitting frequency: 456.5 kHz ship station transmitting frequency : 459.5 kHz	
SOUTH AFRICA (REP.)	EQUATORIAL GUINEA
BAHRAIN	GUINEA
BYELORUSSIA	NETHERLANDS
BULGARIA	ITALY
CONGO	ISRAEL
CYPRUS	MALTA
FEDERAL REPUBLIC OF GERMANY (North Sea)	MONGOLIA
DJIBOUTI	REUNION
DENMARK	SWEDEN (North Sea)
SPAIN (Canary Islands included)	SEYCHELLES
ETHIOPIA	SOMALIA
GABON	SIERRA LEONE
GUINEA-BISSAU	SAO TOME AND PRINCIPE
	TOGO
	UKRAINE
	USSR

Group 3, Channel No. 114 coast station transmitting frequency: 457.0 kHz ship station transmitting frequency : 460.0 kHz	
ANGOLA	IRELAND
ALBANIA	IRAQ
ALGERIA	KENYA
SAUDI ARABIA	LIBERIA
CAMEROON	LIBYA
ARCHIPELAGO CROZET	MAYOTTE
EGYPT	MOZAMBIQUE
IVORY COAST	MOROCCO (Atlantic)
FEDERAL REPUBLIC OF GERMANY (Baltic)	NAMIBIA
GERMAN DEMOCRATIC REPUBLIC	POLAND
UNITED KINGDOM	ROMANIA
GHANA	CHAD
	TURKEY
	TANZANIA
	USSR

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ANNEX 2 TO RESOLUTION No. COM 5/1 (MM)

Allotment Plan for National Channels in the Digital Selective Calling System in the Band 1 606.5 - 2 160 kHz by Countries and Areas

Group 1, Channel No. 229 coast station transmitting frequency: 1 621 kHz ship station transmitting frequency : 2 156 kHz	
BULGARIA	ICELAND
CAPE VERDE	JORDAN
IVORY COAST	KUWAIT
VATICAN	MOROCCO
UNITED KINGDOM	NORWAY (N.65N.)
(Irish Sea)	TANZANIA
GABON	UKRAINE
ITALY (West)	YEMEN ARAB REPUBLIC

Group 2, Channel No. 230 coast station transmitting frequency: 1 621.5 kHz ship station transmitting frequency : 2 156.5 kHz	
CAMEROON	ISRAEL
CANARIES	LIBERIA
COMORES	MAURITIUS
ETHIOPIA	NORWAY (S.65N.)
UNITED KINGDOM	ROMANIA
(Channel)	SEYCHELLES (REPUBLIC OF)
ITALY (East)	

Group 3, Channel No. 231 coast station transmitting frequency: 1 622 kHz ship station transmitting frequency : 2 157 kHz	
ALGERIA	KENYA
BYELORUSSIA	NORWAY (S.65N.)
FRANCE (Channel)	REUNION
GHANA	SYRIA
GREECE	UNITED ARAB EMIRATES
	USSR

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Group 4, Channel No. 232
coast station transmitting frequency: 1 622.5 kHz
ship station transmitting frequency : 2 157.5 kHz

SAUDI ARABIA	IRELAND
FEDERAL REPUBLIC OF GERMANY	LIBYA
FRANCE (Mediterranean)	MOZAMBIQUE
FINLAND	MAURITANIA
EQUATORIAL GUINEA	SIERRA LEONE
	TURKEY

Group 5, Channel No. 233
coast station transmitting frequency: 1 623 kHz
ship station transmitting frequency : 2 158 kHz

ASCENSION	MALTA
DJIBOUTI	MAYOTTE
UNITED KINGDOM (North Sea)	NAMIBIA
GIBRALTAR	OMAN
GAMBIA	SWEDEN
	ST. HELENA
	SAO TOME AND PRINCIPE

Group 6, Channel No. 234
coast station transmitting frequency: 1 623.5 kHz
ship station transmitting frequency : 2 158.5 kHz

ANGOLA	NETHERLANDS
ALBANIA	MONACO
BAHRAIN	NIGERIA
SPAIN (Atlantic)	POLAND
EGYPT	YEMEN (PEOPLE´S DEMO-
GUINEA	CRATIC REPUBLIC OF)

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Group 7, Channel No. 235 coast station transmitting frequency: 1 624 kHz ship station transmitting frequency : 2 159 kHz	
BELGIUM	IRAQ
BENIN	MADAGASCAR
CYPRUS	SUDAN
GERMAN DEMOCRATIC REPUBLIC	SENEGAL
SPAIN (Mediterranean)	TRISTAN DA CUNHA
GREECE	USSR
	ZAIRE

Group 8, Channel No. 236 coast station transmitting frequency: 1 624.5 kHz ship station transmitting frequency : 2 159.5 kHz	
SOUTH AFRICA	PORTUGAL
AZORES	QATAR
CONGO	SOMALIA
DENMARK	TOGO
FRANCE (Atlantic)	TUNISIA
GUINEA-BISSAU	USSR
LEBANON	YUGOSLAVIA
MADEIRA	

Note by the Editorial Committee:

In the final version of the Final Acts, the General Secretariat is requested to rearrange the names of countries/geographical areas in French alphabetical order.

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RESOLUTION No. COM 6/1 (MM)

Application of Articles 4, 5 and 6 of the Agreement Before its Entry into Force

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), (Geneva, 1985),

considering

a) that, in accordance with its agenda, it has adopted an Agreement and associated Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that some administrations may need to modify the characteristics of assignments appearing in the Plans or to add new assignments to the Plans or to notify assignments included in the Plans before the Agreement enters into force;

c) that some administrations may need to notify frequency assignments in the fixed service or the land mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz before the Agreement enters into force;

d) that means must be provided, before the date of entry into force of the Agreement, to permit modifications to the Plans and to ensure that the proposed uses of the primary and permitted services in the relevant bands are compatible with the Plans;

e) that, in accordance with No. 471 of the Radio Regulations and Resolution No. 206 (MOB-83) of the World Administrative Radio Conference for Mobile Services, Geneva, 1983, the next competent world administrative radio conference should decide on the date of entry into force of the definitive guardband from 495 kHz to 505 kHz and that No. 3018 of the Radio Regulations is to be observed;

resolves

1. that, pending the entry into force of the Agreement, administrations and the IFRB shall apply the procedures set out in Article 4 of the Agreement for the modification of the Plans;

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2. that during the period concerned, subject to the application of resolves 3 below, administrations and the IFRB shall apply to frequency assignments of the aeronautical radionavigation and maritime mobile services the procedures of Article 5 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands;

2bis that during the period concerned, administrations and the IFRB shall apply to frequency assignments of the fixed and land mobile services the procedures of Article 6 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands;

3. that the transitional procedure contained in the Annex to this Resolution shall be applicable during the period in question;

4. that the provisions of this Resolution do not apply to the bands 490 - 495 kHz and 505 - 510 kHz unless decided otherwise by a competent administrative radio conference.

ANNEX TO RESOLUTION No. COM 6/1 (MM)

Transitional Procedure Applicable to Frequency Assignments Notified Under Article 5 of the Agreement Before its Entry into Force

1. When an administration proposes to modify the characteristics of an assignment entered in the Master Register in order to make it consistent with the Plan, or when an administration wishes to bring into service an assignment in conformity with the Plan, it shall notify that assignment under Article 5 of the Agreement.

2. The IFRB shall examine such notifications relating to assignments entered in the Master Register on the date of receipt of the notification and shall inform the notifying administration of any incompatibility it may identify with assignments of other administrations.

3. The notifying administration shall endeavour to secure the agreement of the administrations identified under paragraph 2 above.

4. When the agreement of the administrations concerned has been obtained, the assignment may be brought into service in accordance with the Plan and, if necessary, the corresponding assignment which has been the subject of the modification shall be deleted from the Master Register.

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RESOLUTION No. COM 6/2 (MM)

Updating of the Master International Frequency Register with Regard to Assignments to Stations of the Planned Services in the Planned Frequency Bands to Permit the Entry into Force of the Agreement and Associated Plans

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, in accordance with this Agreement, the Contracting Members have adopted Plans for their maritime mobile service and aeronautical radionavigation service stations in the frequency bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that under the provisions of Article 5 of the Agreement, the Contracting Members are required to notify the IFRB of frequency assignments to stations of the planned services before they are brought into operation;

c) that the administrations of Contracting Members and the IFRB should have an appropriate procedure for implementing the Plans agreed at the present Conference with the least possible difficulty;

resolves

1. that, within 90 days from the date on which this Conference ends, the IFRB shall send to each administration a list of the assignments to stations of the planned services entered on its behalf in the Master Register in the planned bands as well as a list of the assignments entered on its behalf in the Plans adopted at this Conference;

2. that, in sending these lists, the IFRB shall request administrations to return within 90 days a list showing the correspondence between the assignments entered in the Plans and those entered in the Master Register;

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3. that any assignment entered in the Master Register for the maritime mobile and aeronautical radionavigation services in the planned bands that has no corresponding assignment in the Plan shall be deleted from the Register on the date of entry into force of the Agreement;

4. that, 90 days prior to the entry into force of the Agreement, administrations shall notify the IFRB of the assignments in conformity with the Plan that are intended to replace the corresponding assignments entered in the Master Register;

5. that if, in examining the frequency assignments notified by administrations under paragraph 4 above, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in column 2;

6. that, 30 days after the date of entry into force of the Agreement, assignments entered in the Master Register for which the IFRB has not received a notice concerning the entry into service of the corresponding assignment in the Plan shall be retained in the Master Register, with a remark in the appropriate column to show that the assignment in question is not entitled to any protection in relation to assignments that are in conformity with the Plan and must not cause any harmful interference to such assignments. Each administration concerned shall be advised of such action;

7. that if, upon expiry of the above-mentioned period, the Board receives a notice under the terms of paragraph 4 above, it shall delete the corresponding assignment from the Master Register;

invites the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

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RESOLUTION No. COM 6/3 (MM)

Transfer of Frequency Assignments to Stations of the Maritime Mobile Service Operating in the Bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference (Geneva, 1979), allocated the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz to the radiolocation service and the band 1 810 - 1 850 kHz to the amateur service;

b) that the bands mentioned in paragraph a) above were formerly allocated to the maritime mobile service;

c) that, in Resolution No. 38, the World Administrative Radio Conference (Geneva, 1979), resolved that, on the date of entry into force of a frequency assignment plan for the maritime mobile service in the band 1 606.5 - 2 850 kHz, the operations of fixed and mobile stations in Region 1 should cease in the bands mentioned in paragraph a) above, except with regard to the countries and bands mentioned in Nos. 485, 490, 491, 493 and 499 of the Radio Regulations;

d) that in the same Resolution the Conference resolved that replacement frequencies for stations of the maritime mobile service should be provided in the Plan referred to in paragraph c) above, together with the arrangements for their implementation;

e) that the present Conference adopted an Agreement with annexed frequency plans for stations of the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz which contain the replacement frequencies mentioned above;

resolves

1. that, 90 days before the date of entry into force of the Agreement, the administrations shall notify the IFRB of the assignments in conformity with the Plan which are to replace the assignments to stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz;

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2. that the provisions of Resolution No. COM 6/1 (MM) relating to the provisional procedure to be applied during the interval between the end of this Conference and the date of entry into force of the Agreement shall be applicable with regard to the transfer of assignments to stations of the maritime mobile service operating in the bands 1 625 - 1 635 kHz, 1 800 -1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz;

3. that if, in examining the frequency assignments notified by administrations under the terms of this Resolution, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in Column 2;

4. that, on the date of entry into force of the frequency assignment Plan for stations of the maritime mobile service annexed to the Agreement adopted by the present Conference, the frequency assignments to stations of the maritime mobile service which have not been transferred in accordance with paragraph 1 above shall continue to be used only on the basis of No. 342 of the Radio Regulations.

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RESOLUTION No. COM 6/4 (MM)

Compatibility Between Assignments Appearing in the Plan for the Maritime Mobile Service in the Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and Assignments in the Fixed and Land Mobile Services Recorded in the Master Register

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that Article 8 of the Radio Regulations allocated in Region 1 the frequency bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis (primary in countries listed in No. 483 of the Radio Regulations;

b) that the Conference established a Plan for the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

c) that the Conference was unable to evaluate the incompatibilities between frequency asignments to the maritime mobile service entered in the Plan and those of the primary services recorded in the Master Register;

d) that the Conference was unable to assign alternative frequencies to the assignments to stations of permitted services after having selected the frequencies for the maritime mobile service as indicated in the provisions of No. 419 of the Radio Regulations;

e) that in accordance with No. 419 of the Radio Regulations, the primary and permitted services have equal rights except during the period of preparation of a Plan for the primary service;

f) that the evaluation of compatibility between assignments to the maritime mobile service in the Plan and the other services can be made only after the Conference;

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g) that this evaluation may indicate the probability of harmful interference between assignments appearing in the Plan and other assignments presently recorded in the Master Register for the fixed and land mobile services;

h) that in such cases alternative frequencies should be found to the assignments causing or subject to interference;

i) that the planned bands are already congested and that alternative frequencies will have to be found generally in other bands;

j) that in general it is easier for the stations of the fixed and land mobile services to make modifications to their characteristics;

resolves

1. that, within 90 days of the end of the present Conference, the IFRB shall send to each administration the list of assignments to its stations of the fixed and land mobile services recorded in the Master Register in the bands concerned, requesting them to review these assignments with a view to cancelling those assignments which are no longer in use;

2. that administrations shall, within a period of 90 days following the receipt of the list referred to in paragraph 1 above, return the copy of the list indicating those assignments to be deleted from the Master Register as well as any modification to other assignments, which may assist in resolving any apparent incompatibility with the Plan;

3. that, having received information requested under Resolution No. COM 6/2 indicating the relation between assignments in the maritime mobile service recorded in the Master Register and those appearing in the Plan as well as the information resulting from the application of paragraphs 1 and 2 above, the IFRB shall carry out compatibility analyses between the assignments appearing in the Plan and those of the fixed and land mobile services which are recorded in the Master Register in the same band, using the IFRB Technical Standards on the basis of ground-wave propagation;

4. that the IFRB shall send to each administration concerned the list of incompatibilities that may exist between the assignments in the Plan and the assignments in the fixed and land mobile services;

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5. that, when an administration finds that the level of interference caused to its fixed or land mobile station from an assignment to a station of the maritime mobile service appearing in the Plan is acceptable to it, it shall so inform the IFRB and the corresponding asignment is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

6. that, when an administration finds that the level of interference caused to its maritime mobile station for which an assignment appears in the Plan is acceptable to it, it shall so inform the IFRB and the fixed or land mobile assignment at the origin of interference is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

7. that, when an assignment in the fixed or land mobile service with a date in Column 2b of the Master Register is identified as capable of causing harmful interference to an assignment appearing in the Plan, the administration responsible for the fixed or land mobile assignment shall take appropriate measures to change the frequency or modify the characteristics in order to eliminate the probability of harmful interference;

8. that, when there exists an incompatibility between an assignment in the Plan and an assignment of the fixed or land mobile service with a date in Column 2a of the Master Register, administrations concerned should make every effort to eliminate the incompatibility by modifying the characteristics of the assignments concerned and, if this is not possible, by selecting an alternative frequency either in the planned bands or in the case of fixed and land mobile services preferably in other bands;

9. that 120 days before the date of entry into force of the Agreement, the IFRB shall request those administrations concerned with an unresolved incompatibility to find a solution to the problem. If 90 days before the entry into force of the Agreement, the Board is not informed of the resolution of such incompatibility, it shall select an alternative frequency for the assignment having the more recent date in Column 2a of the Master Register and inform the administrations concerned;

10. that an administration, for which an acceptable alternative frequency was selected in accordance with paragraph 9 above, shall modify the characteristics of its assignment in order to operate at this new frequency as soon as possible and, in any case, before the bringing into use of the assignment in the Plan;

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11. that administrations may request the assistance of the Board at any stage of these proceedings;

12. that when an alternative frequency is selected in accordance with paragraphs 8 or 9 above and is compatible with the Plan and receives a favourable finding with respect to assignments recorded in the Master Register, the assignment will keep its original date in Column 2a;

urges administrations

1. having assignments in the fixed or land mobile service which are incompatible with an assignment in the Plan to take all necessary measures to eliminate the incompatibility bearing in mind that, in general, the fixed and land mobile services have more flexibility to modify their characteristics, including the frequency;

2. having assignments in the Plan which are incompatible with assignments in the fixed or land mobile service with a date in Column 2a of the Master Register to modify the characteristics of their assignments appearing in the Plan in order to eliminate incompatibility;

3. to cooperate to the maximum extent possible with a view to achieving the objectives of this Resolution;

requests the IFRB

to provide administrations with all the necessary assistance in the implementation of the provisions of this Resolution.

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RECOMMENDATION No. COM 5/A (MM)

Replacement of the World-wide Maritime Mobile Working Frequency 425 kHz for Ship Stations

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference, (Geneva, 1979) allocated the frequency band 415 - 435 kHz in Region 1 to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;

b) that the World Administrative Radio Conference for the Mobile Services, (Geneva, 1983) resolved that a Regional Administrative Radio Conference for Region 1 should be convened in 1985 to prepare frequency assignment plans for the aeronautical radionavigation service in the frequency bands 415 - 435 kHz and 505 - 526.5 kHz, and for the maritime mobile service in the frequency bands 415 - 435 kHz and 435 - 526.5 kHz;

further considering

c) that this Conference established a frequency assignment plan for aeronautical radiobeacon stations in the band 415 - 435 kHz in Region 1;

d) that the possibilities for the maritime mobile service for using frequencies from this band are limited;

e) that this Conference decided that in the maritime mobile service, only coast stations should be allowed to use frequencies from this band;

f) that this would not be practicable if the frequency 425 kHz were allowed to continue on a world-wide basis as a ship working frequency for radiotelegraphy in accordance with the allocation to the maritime mobile service in this band and with No. 4237 of the Radio Regulations;

g) that this Conference decided that the frequency 458 kHz would be a suitable replacement for the frequency 425 kHz in order to avoid problems with the implementation of the Plan for the aeronautical radiobeacon stations;

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h) that harmful interference in the reception of the aeronautical radiobeacon stations may have serious implications for the safety of life;

i) that the revision of No. 4237 was not on the agenda of this Conference;

recommends

that the Conference for the Mobile Services scheduled for 1987 should be authorized to review and revise No. 4237 of the Radio Regulations with a view to replacing the frequency 425 kHz by the frequency 458 kHz as a world-wide ship station working frequency in all the Regions, from the date of entry into force of the Plan for aeronautical radiobeacons in the band 415 - 435 kHz, i.e. [...];

invites the Administrative Council

to ensure that the Conference for the Mobile Services scheduled for 1987 will be competent to review and revise No. 4237 of the Radio Regulations;

instructs the Secretary-General

to bring this Recommendation to the attention of all administrations.

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RECOMMENDATION No. COM 5/B (MM)

Frequency Pairs in the Bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz to be Used for Digital Selective Calling for National and International Purposes

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that the World Administrative Radio Conference for the Mobile Services, (Geneva, 1983) could not prepare frequency assignment plans for the bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz and resolved in Resolution No. 704 (MOB-83) that a Regional Administrative Radio Conference for Region 1 be convened to prepare frequency assignment plans;

b) that this Conference designated frequency pairs in the MF band to be used for digital selective calling for national and international purposes in the band 435 - 526.5 kHz and for national purposes only in the band 1 606.5 - 2 160 kHz (Resolution No. COM 5/1);

c) that the use of frequency pairs for digital selective calling for international use is also of interest for Regions 2 and 3;

recognizing

a) that this Conference could not designate a frequency pair for digital selective calling for international use in the band 1 606.5 - 2 160 kHz;

b) that this Conference could designate frequency pairs for digital selective calling in the band 435 - 526.5 kHz with a separation of only 3 kHz between coast station and ship station frequencies;

recommends

that the World Administrative Radio Conference for the Mobile Services, scheduled for 1987, should consider

1. designating for international use in Regions 2 and 3, the frequency pairs for digital selective calling in the band 435 - 526.5 kHz designated by this Conference for international use in Region 1;

2. designating a frequency pair for digital selective calling in the band 1 606.5 - 2 160 kHz for world-wide international use;

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3. making provision in the Radio Regulations for frequency pairs to be made available on a world-wide basis for digital selective calling for national purposes;

invites the Administrative Council

to include in the agenda of the WARC for the Mobile Services, scheduled for 1987, provisions to ensure that the Conference will be competent to review parts of Article 62 of the Radio Regulations so as to cover paragraphs 1 to 3 of "recommends" above;

invites the CCIR

1. to study the technical problems that may arise from the 3 kHz duplex separation in the digital selective calling channels in the band 435 - 526.5 kHz;

2. to review the appropriate CCIR Recommendations.

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 152-E
13 March 1985

R.4 (MM) PLENARY MEETING

FOURTH SERIES OF TEXTS SUBMITTED BY THE

EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for second reading:

Source	Document	Title
B.3	124	Annex 1 Annex 2 Annex 3 (4 tables)

J.-L. BLANC
Chairman of the Editorial Committee

Annex: 7 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

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ANNEX 1

Frequency Assignment Plan (Region 1) for Stations of the Maritime Mobile Service in the Bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Plan column headings

Column

1. Assigned frequency (kHz)
2. Channel number
3. Country symbol
4. Transmitting coast station name
5. Symbol of the country or geographical area in which the station is located (see Table 1 in the Preface to the International Frequency List)
6. Longitude and latitude (in degrees and minutes) of the transmitting station
7. Service range (km)
8. Nature of service
9. Class of emission*
10. Necessary transmitting power:

    10a: effective monopole radiated power (e.m.r.p.) (dBW)

    (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

    10b: power supplied to the antenna transmission line (dBW)

    (calculated value: e.m.r.p. + 7 dB (for the 500 kHz band)
    e.m.r.p. + 4 dB (for the 2 MHz band)
11. Antenna characteristics

    11a: azimuth of maximum radiation (ND for non-directional antenna) (degrees)

    11b: maximum antenna gain (dB)

    11c: angular width of the main lobe (degrees)
12. Normal hours of operation (UTC) of frequency assignment
13. Remarks

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* In the frequency bands between 415 and 526.5 kHz, A1A emissions may be used on F1B assignments and vice-versa.

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ANNEX 2

Frequency Assignment Plan (Region 1) for Stations of the Aeronautical Radionavigation Service (Radiobeacons) in the Bands 415 - 435 kHz and 510 - 526.5 kHz

Plan column headings

Column

1. Assigned frequency (kHz)

2. Channel number

3. Country symbol

4. Transmitting station name

5. Symbol of the country or geographical area in which the station is located (see Table 1 in the Preface to the International Frequency List)

6. Longitude and latitude (in degrees and minutes) of the transmitting station

7. Radius (km) of the circular service area

8. Nature of service

9. Necessary bandwidth and class of emission

10. Effective monopole radiated power (e.m.r.p.) (dBW)[1]

    (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)

11. Antenna characteristics (ND)

12. Normal hours of operation (UTC) of frequency assignment

13. Remarks

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[1] The type of power to be notified under Article 12 of the Radio Regulations shall be the carrier power determined by the NON emission of the radiobeacon.

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ANNEX 3

CHANNELLING ARRANGEMENT

TABLE 1

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands Between 415 and 526.5 kHz in Region 1

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship Station (kHz)
1	415.5		41	435.5	475.5	81	456.0[a]	459.0[a]
2	416.0		42	436.0	476.0	82	456.5[a]	459.5[a]
3	416.5		43	436.5	476.5	83	457.0[a]	460.0[a]
4	417.0		44	437.0	477.0	84		457.5[b]
5	417.5		45	437.5	477.5	85[e]	506.0	490.5
6	418.0		46	438.0	478.0	86[e]	506.5	491.0
7	418.5		47	438.5	478.5	87[e]	507.0	491.5
8	419.0		48	439.0	479.0	88[e]	507.5	492.0
9	419.5		49	439.5	479.5	89[e]	508.0	492.5
10	420.0		50	440.0	461.0	90[e]	508.5	493.0
11	420.5	454.0[c]	51	440.5	480.5	91[e]	509.0	493.5
12	421.0		52	441.0	481.0	92[e]	509.5	494.0
13	421.5	458.0[c]	53	441.5	481.5	93[e]	510.0	494.5
14	422.0		54	442.0	482.0	94	510.5	461.5
15	422.5	468.0[c]	55	442.5	482.5	95	511.0	462.0
16	423.0		56	443.0	483.0	96	511.5	462.5
17	423.5	480.0[c]	57	443.5	483.5	97	512.5	463.0
18	424.0		58	444.0	484.0	98	513.0	463.5
19	424.5		59	444.5	484.5	99	513.5	464.0
20	425.0[d]		60	445.0	485.0	100	514.0	464.5
21	425.5		61	445.5	485.5	101	514.5	465.0
22	426.0		62	446.0	486.0	102	515.0	465.5
23	426.5		63	446.5	486.5	103	515.5	466.0
24	427.0		64	447.0	487.0	104	516.0	466.5
25	427.5		65	447.5	487.5	105	516.5	467.0
26	428.0		66	448.0	488.0	106	517.0	467.5
27	428.5		67	448.5	488.5	107	519.0	460.5
28	429.0		68	449.0	489.0	108	519.5	468.5
29	429.5		69	449.5	489.5	109	520.0	469.0
30	430.0		70	450.0	450.0	110	520.5	469.5
31	430.5		71	450.5	450.5	111	521.0	470.0
32	431.0		72	451.0	451.0	112	521.5	470.5
33	431.5		73	451.5	451.5	113	522.0	471.0
34	432.0		74	452.0	452.0	114	522.5	471.5
35	432.5		75	452.5	452.5	115	523.0	472.0
36	433.0		76	453.0	453.0	116	523.5	472.5
37	433.5		77		453.5[b]	117	524.0	473.0
38	434.0		78		454.5[b]	118	524.5	473.5
39	434.5		79		455.0[b]	119	525.0	474.0
40	435.0		80	455.5[a]	458.5[a]	120	525.5	474.5
						121	526.0	475.0

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Notes to Table 1

a) For DSC use. Channel No. 111 for international use, channels Nos. 112-114 for national use. (See also Resolution No. COM 5/1.)

b) For inter-ship use.

c) A coast station has the right to transmit on its own assigned working frequency (paired) when it communicates with a ship station transmitting on one of the frequencies for Morse radiotelegraphy (454, 458, 468 and 480 kHz). See also No. 4237 of the Radio Regulations.

d) See Recommendation No. COM 5/A.

e) See Article 14 of this Agreement.

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TABLE 2

Channelling Arrangement for Radiotelegraphy in the Maritime Mobile Service in the Frequency Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz in Region 1

Channel No.	Coast station (NBDP) (DSC) (kHz)	Ship station (NBDP) (DSC) (kHz)
201	1607	2142
202	1607.5	2142.5
203	1608	2143
204	1608.5	2143.5
205	1609	2144
206	1609.5	2144.5
207	1610	2145
208	1610.5	2145.5
209	1611	2146
210	1611.5	2146.5
211	1612	2147
212	1612.5	2147.5
213	1613	2148
214	1613.5	2148.5
215	1614	2149
216	1614.5	2149.5
217	1615	2150
218	1615.5	2150.5
219	1616	2151
220	1616.5	2151.5
221	1617	2152
222	1617.5	2152.5
223	1618	2153
224	1618.5	2153.5
225	1619	2154
226	1619.5	2154.5
227	1620	2155
228	1620.5	2155.5
229	1621	2156
230	1621.5	2156.5
231	1622	2157
232	1622.5	2157.5
233	1623	2158
234	1623.5	2158.5
235	1624	2159
236	1624.5	2159.5

* See Resolution No. COM 5/1

NBDP = Narrow-band direct printing
DSC = Digital selective calling

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TABLE 3

Channelling Arrangement for Single-Sideband Radiotelephony in the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz in Region 1

Channel No.	Coast station assigned frequency (carrier frequency) (kHz)	Ship station assigned frequency (carrier frequency) (kHz)
241	1636.4(1635)	2061.4(2060)
242	1639.4(1638)	2064.4(2063)
243	1642.4(1641)	2067.4(2066)
244	1645.4(1644)	2070.4(2069)
245	1648.4(1647)	2073.4(2072)
246	1651.4(1650)	2076.4(2075)
247	1654.4(1653)	2079.4(2078)
248	1657.4(1656)	2082.4(2081)
249	1660.4(1659)	2085.4(2084)
250	1663.4(1662)	2088.4(2087)
251	1666.4(1665)	2091.4(2090)
252	1669.4(1668)	2094.4(2093)
253	1672.4(1671)	2097.4(2096)
254	1675.4(1674)	2100.4(2099)
255	1678.4(1677)	2103.4(2102)
256	1681.4(1680)	2106.4(2105)
257	1684.4(1683)	2109.4(2108)
258	1687.4(1686)	2112.4(2111)
259	1690.4(1689)	2115.4(2114)
260	1693.4(1692)	2118.4(2117)
261	1696.4(1695)	2121.4(2120)
262	1699.4(1698)	2124.4(2123)
263	1702.4(1701)	2127.4(2126)
264	1705.4(1704)	2130.4(2129)
265	1708.4(1707)	2133.4(2132)
266	1711.4(1710)	2136.4(2135)
267	1714.4(1713)	2139.4(2138)
268	1717.4(1716)	2061.4(2060)
269	1720.4(1719)	2064.4(2063)
270	1723.4(1722)	2067.4(2066)

Channel No.	Coast station assigned frequency (carrier frequency) (kHz)	Ship station assigned frequency (carrier frequency) (kHz)
271	1726.4(1725)	2070.4(2069)
272	1729.4(1728)	2073.4(2072)
273	1732.4(1731)	2076.4(2075)
274	1735.4(1734)	2079.4(2078)
275	1738.4(1737)	2082.4(2081)
276	1741.4(1740)	2085.4(2084)
277	1744.4(1743)	2088.4(2087)
278	1747.4(1746)	2091.4(2090)
279	1750.4(1749)	2094.4(2093)
280	1753.4(1752)	2097.4(2096)
281	1756.4(1755)	2100.4(2099)
282	1759.4(1758)	2103.4(2102)
283	1762.4(1761)	2106.4(2105)
284	1765.4(1764)	2109.4(2108)
285	1768.4(1767)	2112.4(2111)
286	1771.4(1770)	2115.4(2114)
287	1774.4(1773)	2118.4(2117)
288	1777.4(1776)	2121.4(2120)
289	1780.4(1779)	2124.4(2123)
290	1783.4(1782)	2127.4(2126)
291	1786.4(1785)	2130.4(2129)
292	1789.4(1788)	2133.4(2132)
293	1792.4(1791)	2136.4(2135)
294	1795.4(1794)	2139.4(2138)
295	1798.4(1797)	2061.4(2060)

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TABLE 4

Channelling Arrangement of the Frequency Bands 415 - 435 kHz and 510 - 526.5 kHz for the Aeronautical Radionavigation Service (Radiobeacons)*

Channel No.	Frequency (kHz)
1**	416
2	417
3	418
4	419
5	420
6	421
7	422
8	423
9	424
10	425
11	426
12	427
13	428
14	429
15	430
16	431
17	432
18	433
19**	434

Channel No.	Frequency (kHz)
21****	511
22	513
23	514
24	515
25	516
26***	517
27***	519
28	520
29	521
30	522
31	523
32	524
33	525
34***	526

* Exceptionally, for national purposes, administrations may use interleaved channels spaced at 0.5 kHz except on 517.5 kHz and 518.5 kHz, provided that such use does not cause interference to assignments on regular channels. Moreover, such assignments shall not prevent additional assignments from being made on regular channels or modifications to the Plan on regular channels.

** These channels are limited to emissions with a bandwidth of less than 2 kHz.

*** These channels are limited to emissions with a bandwidth of less than 1 kHz.

**** This channel is limited to emissions with a bandwidth of less than 2 kHz until the date decided by a future radio conference (see Resolution No. 206 (MOB-83)) and [Re].

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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 153-E
14 March 1985

R.5 (MM)

PLENARY MEETING

FIFTH SERIES OF TEXTS SUBMITTED BY THE

EDITORIAL COMMITTEE TO THE PLENARY MEETING

The following texts are submitted to the Plenary Meeting for second reading:

Source	Document	Title
B.1	105	Recommendation Nos: COM 6/A (MM)
B.4	127	COM 6/B (MM)
		COM 6/C (MM)
		COM 6/D (MM)

J.-L. BLANC
Chairman of the Editorial Committee

Annex: 7 pages

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

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RECOMMENDATION No. COM 6/A (MM)

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands Between 415 and 526.5 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an Agreement and associated Frequency Plan for the frequency bands between 415 and 526.5 kHz for the maritime mobile service;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 1 to Resolution No. 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands between 415 and 526.5 kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of an appendix to the Radio Regulations containing the channelling arrangement in Appendix 1 to Resolution No. 704 (MOB-83) with a view to their later inclusion in the Radio Regulations;

recommends

that the channelling arrangement appearing in the Annex to this Recommendation concerning the frequency bands between 415 and 526.5 kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

PINK PAGES

ANNEX TO RECOMMENDATION No. COM 6/A (MM)

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands Between 415 and 526.5 kHz in Region 1

[Table 1 of Annex 3 will be inserted here in the final version of the Final Acts]

Note to be added to table of annex to Recommendation No. COM 6/A and in Annex [ ] to the Agreement against the frequencies in the bands 490 - 495 kHz and 505 - 510 kHz

Note - This frequency shall not be used until the date to be decided by the Conference mentioned in Article 14 of the Agreement.

PINK PAGES

RECOMMENDATION No. COM 6/B (MM)

Channelling Arrangement for Radiotelegraphy in the Maritime Mobile Service in the Frequency Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an Agreement and associated Frequency Plans for the frequency bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz for narrow-band direct printing telegraphy and digital selective calling in the maritime mobile service in Region 1;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the Mobile Services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz;

PINK PAGES

noting

that it is within the terms of reference of this Conference to establish the final texts of appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 (MOB-83) with a view to their later inclusion in the Radio Regulations;

recommends

that the channelling arrangement appearing in the Annex to this Recommendation concerning the frequency bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the Mobile Services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

ANNEX TO RECOMMENDATION No. COM 6/B (MM)

Channelling Arrangement for Radiotelegraphy in the Maritime Mobile Service in the Frequency Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz in Region 1

[Table 2 of Annex 3 will be inserted here in the final version of the Final Acts]

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RECOMMENDATION NO. COM 6/C (MM)

Channelling Arrangement for Single Sideband Radiotelephony in the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz in Region 1

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that this Conference has established an Agreement and associated Frequency Plans for the frequency bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz for single sideband radiotelephony in the maritime mobile service in Region 1;

b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution No. 704 (MOB-83) were used as a basis for the planning of these bands;

c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz;

noting

that it is within the terms of reference of this Conference to establish the final texts of appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 (MOB-83) with a view to their later inclusion in the Radio Regulations;

recommends

that the channelling arrangement appearing in the annex to this Recommendation concerning the frequency bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz is included in the Radio Regulations as an appendix;

invites the Administrative Council

to ensure that the Conference for the mobile services planned for 1987 will be competent to take a decision to include this appendix in the Radio Regulations.

PINK PAGES

ANNEX TO RECOMMENDATION No. COM 6/C (MM)

Channelling Arrangement for Single Sideband Radiotelephony in the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz in Region 1

[Table 3 of Annex 3 will be inserted here in the final version of the Final Acts]

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RECOMMENDATION No. COM 6/D (MM)

Deletion from the Plans of Assignments which are no Longer Required

The Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985),

considering

a) that, in accordance with its agenda, the Conference established Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that the Conference established these Plans without taking account of the date by which the assignments included in them will be brought into use;

c) that the Conference did not consider it appropriate to fix a period for the validity of the Plans;

d) that during the years following the adoption of the Plans by the Conference, administrations may need to modify their projected uses of the planned bands;

e) that, at the same time, administrations might need additional assignments;

ebis) that the Conference was unable to satisfy all the requirements submitted by administrations and identified those requirements which could not be met;

f) that the Conference adopted Article 6 of the Agreement applicable to frequency assignments to stations of the other services to which the planned bands are also allocated on a primary or permitted basis;

g) that the Conference requested the IFRB periodically to consult administrations as to their intentions with respect to the bringing into use of the assignments in the Plans;

urges administrations

1. to inform the IFRB as soon as possible of any assignment which they no longer require with a view to its deletion from the Plan concerned;

2. to review their assignments in the Plans when they are consulted by the IFRB in accordance with paragraph 30bis of the Agreement and to request it to cancel from the Plan concerned those assignments which they no longer require.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 154-E
15 March 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

FOURTH PLENARY MEETING

Tuesday, 12 March 1985, at 1910 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:	Documents
1. Second report of Committee 6	118
2. Second series of texts submitted by the Editorial Committee for first reading (B.2)	120
3. Oral report by the Chairman of Committee 2	-

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Second report of Committee 6 (Document 118)

1.1 The Chairman of Committee 6 noted that the Greek reservation related to draft Resolution No. COM 6/1 (MM) which was contained in Document 120. That Resolution had, however, since been modified by the addition of a considering e) and a resolves 4, and the revised version would be issued in Document 130 the following day.

1.2 The Chairman of Committee 7 suggested that the Committee consider the draft Resolution in its present form after examining Articles 4, 5 and 6. The additional sections could be approved on first and second readings simultaneously.

It was so agreed.

2. Second series of texts submitted by the Editorial Committee for first reading (B.2) (Document 120)

2.1 The delegate of Spain noted that the references to annexes in the text had been left in square brackets; he wondered whether a decision should be taken on the structure of the Plan, in order to complete those references. He also felt that information should be provided on channelling to assist in understanding the Agreement. Finally, he had noted some errors in the Spanish version and would be submitting corrections in writing.

2.2 The representative of the IFRB stressed that the structure of the Plan should not be considered from the standpoint of the present deliberations but in the light of the technical criteria that would be used by the administrations and the IFRB for subsequent modification of the Plan. The same applied to channelling arrangements.

2.3 The Chairman proposed to call a meeting of the Committee Chairmen and representatives of the IFRB in order to work out a structure for the Plan; in the meantime the Committee could proceed with its review of the text without taking the references into account.

It was so agreed.

2.4 Article 4

2.4.1 The representative of the IFRB, referring to the channelling arrangements mentioned in sub-paragraph 18bis, wished to have a clarification concerning the interleaved channels which were the subject of the footnote on page B.3/6 (MM) of Document 124. If such channels were notified to the Board by administrations, should they be included in the Plan, and should they be protected? Moreover, if they were included in the Plan, would they be compatible with regular channels?

2.4.2 The Chairman of Committee 5 said that interleaved channels spaced at 0.5 kHz were compatible with channels at 1 kHz. He explained that they had been given for the guidance of those who intended to plan during the Conference. Criteria for their protection had been developed by the Committee and it was considered that they should be protected.

2.4.3 The delegate of Algeria took the view that the channels should be seen as being tolerated provided they did not interfere with assignments in the Plan. His understanding was that they should neither be protected, nor appear in the Plan.

2.4.4 The delegate of Spain agreed that 1 kHz spacing should be the regular channelling arrangement. At the same time he felt that protection should be extended to both regular and interleaved channels. A safety of life radionavigation service was involved and the possibility for using interleaved channels should be left open since they could sometimes just fit in while those at 1 kHz received interference. As a solution he proposed deleting the text of the footnote after the word "used", to make it clear that the regular channelling was that shown in the table but that interleaved channels could also be used, subject to the same IFRB examinations for compatibility.

It was so agreed.

2.4.5 The representative of the IFRB said that the phrase "and their appendices" in the first and second lines of paragraph 31 should be deleted.

Article 4 was approved, as amended.

2.5 Article 5

2.5.1 The representative of the IFRB, referring to paragraph 34, said that the text following the word "services" in the fourth and fifth lines should be deleted. In reply to a query by the delegate of Greece he explained that among Contracting Members maritime assignments as well as permitted and primary services were supposed to be compatible; consequently, they were coordinated among themselves and in accordance with RR 1245 no IFRB examination was required. That applied both to initial assignments and to those resulting from modifications to the Plan.

Article 5 was approved, as amended.

2.6 Article 6

It was agreed to replace the words "in accordance" in the first line of the English version of sub-paragraph 38 b) by "and is in conformity".

Article 6 was approved, as amended.

2.7 Resolution No. COM 6/1 (MM)

2.7.1 The Chairman of Committee 6 drew attention to the additional paragraphs considering e) and resolves 4 contained in Document 130.

2.7.2 The delegate of Finland pointed out that the proposed text of considering e) was somewhat misleading.

2.7.3 After a short discussion, the delegate of the Federal Republic of Germany suggested that the last part of the paragraph, beginning with the words "and that, in accordance with ...", should be replaced by the words "and that No. 3018 of the Radio Regulations must be observed".

It was so agreed.

2.7.4 The delegate of Greece said that while it was perfectly proper that, in the period preceding the entry into force of the Agreement, the provisions of the Agreement should be applied for modification of the Plans, that was not the case with regard to new assignments during the same period. Indeed, any attempt to apply the Agreement to new assignments pending the Agreement's entry into force might have chaotic consequences. He proposed the deletion of resolves 2 and 3.

2.7.5 The representative of the IFRB pointed out that the Board protected only those assignments which were recorded in the Master Register. If paragraphs resolves 2 and 3 were deleted, the Plan would not be protected.

2.7.6 The delegate of Spain strongly supported the maintenance of paragraphs 2 and 3 for the reason just given by the representative of the IFRB. In the absence of suitable measures, the whole protection machinery laboriously evolved in Committee 6 would collapse.

2.7.7 The Chairman of Committee 6 said that when the matter had been discussed in Committee 6, the delegate of Greece had been alone in objecting to the paragraphs in question.

2.7.8 The delegate of Finland said that the purpose of the paragraphs was to ensure that the notification of non-planned primary or permitted services between the signing of the Final Acts of the Conference and the entry into force of the Plan was regulated in some manner.

2.7.9 The representative of the IFRB said that it was reasonable to assume that a period of five years would elapse between the present Conference and the entry into force of the Agreement. During that period, some frequency bands would be overloaded. The Plan adopted for maritime stations in many cases consisted in assigning to existing stations other frequencies than those now used. It also contained frequencies planned for future uses. Those alternative frequencies to existing coast stations, as well as frequencies for planned and new stations, were not recorded in the Master Register and therefore not protected under Article 12 of the Radio Regulations. As the Board had pointed out in Document 22, after the Conference primary and permitted services other than maritime mobile would have equal rights with maritime mobile services. The question, as he saw it, was whether the Conference wanted the Plan to be protected during the five years preceding the entry into force of the Agreement. If so, No. 1245 of the Radio Regulations had to be applied.

2.7.10 The delegate of Greece said that, in view of the explanations just given, he withdrew his proposal for the deletion of resolves 2 and 3. The text of resolves 2, however, was insufficiently specific and should be modified.

After a discussion in which the delegates of Algeria, Ghana, Spain and Sweden took part, it was agreed to leave resolves 2 in abeyance pending the preparation of a new draft by the representative of the IFRB.

2.7.11 The delegate of Algeria suggested that the representative of the IFRB should also be requested to amend the text of resolves 4 (Document 130) in such a way as to leave it possible for the 1987 Conference to take a decision to the contrary.

It was so agreed.

Resolution No. COM 6/1 (MM) and the annex thereto were approved subject to the preparation of amended drafts of resolves 2 and 4.

2.8 Resolutions Nos. COM 6/2 (MM) and COM 6/3 (MM)

Approved.

3. Oral Report by the Chairman of Committee 2

3.1 The Chairman of Committee 2 said that credentials had been deposited by the delegations of Algeria and Austria and had been found in order.

The meeting rose at 2055 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 155-E
15 March 1985

PLENARY MEETING

ADDITIONAL DECLARATIONS

17

Original: English

For the State of Israel:

The declarations made by certain delegations in No. 4 of the Final Protocol, being in flagrant contradiction to the principles and purposes of the International Telecommunication Union, and therefore void of any legal validity, the Government of Israel wishes to put on record that it rejects these declarations outright and will proceed on the assumption that they can have no validity as to the rights and duties of any Member State of the International Telecommunication Union. In any case, the Government of Israel will avail itself of its rights to safeguard its interests should the Governments of these delegations in any way violate any of the provisions of the Final Acts of the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain parts of the MF band in Region 1 (Geneva, 1985).

The Delegation of Israel further notes that declaration No. 4 does not refer to the State of Israel by its full and correct name. As such it is totally inadmissible and must be repudiated as a violation of recognized rules of international behaviour.

18

Original: Spanish

For Spain:

The Spanish Delegation to this Conference rejects the reservation bearing the number 13 in the Final Protocol and entered by the Delegation of the Kingdom of Morocco with regard to the entry of frequencies for the stations of Ceuta and Melilla in the Plan.

Ceuta and Melilla are Spanish cities and as such constitute part of the national territory. There can therefore be no question as to Spanish sovereignty over them.

./....

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19

Original: French

For the Kingdom of Morocco:

Declaration No. 6 is an illustration of the expansionist and anti-Moroccan policy of the Government of Algiers. This Government has not ceased, by all the means within its power, to oppose the return of the former Western Sahara to the country of which it formed part before the Spanish colonization - the Kingdom of Morocco.

The Moroccan Delegation therefore requests the Conference to consider the Algerian declaration as being null and void of substance.

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 156-E
18 March 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

FIFTH PLENARY MEETING

Wednesday, 13 March 1985, at 1040 hrs

Subjects discussed:		Document
1.	Report of Committee 3	107(Rev.1)
2.	Numbering of Annexes to the Agreement	
3.	Fourth series of texts submitted by the Editorial Committee to the Plenary Meeting for first reading (Series B.4)	127
4.	Acceptance of Moroccan credentials	

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Report of Committee 3 (Document 107(Rev.1))

1.1 The Chairman of Committee 3, introducing the Report, drew attention to section 3 on the Final Acts of the Conferences and the suggestion that one-third of the costs be charged to the budget of the Conferences, and two-thirds to the supplementary publications budget, in accordance with previous practice. A saving of 242,500 Swiss francs had been made overall, and the Plenary was reminded of the decision by the Administrative Council that two-thirds of the costs be borne by the Region 1 Conference and one-third by the EMA Conference. Annex 4, submitted by the Chairman of the IFRB, related to immediate post-Conference work and was attached for information purposes. It would be forwarded to the Administrative Council by the Secretary-General. Annex 5 comprised a memorandum from the Director of the CCIR requesting that a sum of 50,000 Swiss francs be allotted to the CCIR to cover the studies covered by Resolution No. COM 4/1 (EMA).

1.2 The Chairman of the IFRB explained that it had been difficult for the Board to make detailed estimates with any degree of accuracy, but it would report in greater detail to the Administrative Council.

1.3 The delegate of Iraq asked why his country had been listed in Annex 3.2 of the document since his Administration had notified non-participation in the EMA Conference and had not registered for it on arrival.

1.4 The Secretary-General replied that since Iraq was a member of the EMA area, as such it was obliged, under the Convention, to contribute to the financing of the Conference.

The report of the Budget Control Committee was adopted unanimously.

2. Numbering of Annexes to the Agreement

2.1 The Chairman announced that it had been agreed between Committee Chairmen, the IFRB and the Editorial Committee that the Annexes to the Agreement be numbered as follows:

Annex 1 - maritime Plan;

Annex 2 - aeronautical Plan;

Annex 3 - channelling arrangement;

Annex 4 - technical data used in planning for maritime and aeronautical services;

Annex 5 - technical data to be used in future;

Annex 6 - sharing between maritime mobile and permitted services.

3. Fourth series of texts submitted by the Editorial Committee to the Plenary Meeting for first reading (Series B.4) (Document 127)

3.1 The Chairman of Committee 7, introducing Annex 2 (Technical data) and draft Recommendation No. COM 6 (MM), said that they contained a number of square brackets that the Editorial Committee had not been able to remove. In accordance with an earlier decision, the expression "frequency deviation" in sub-section 1.1.2 should be replaced by the expression "frequency shift" (déplacement de fréquence in French).

3.2 The Chairman added that the Annex and part numbers would be amended later by the Editorial Committee.

Part A

3.3 The delegate of the German Democratic Republic said that his Administration considered that the technical parameters in Section 1 also provided for composite emissions using both A1A and F1B in the bands 415 - 435 and 435 - 526.5 kHz. He therefore proposed a new sub-section 1.1.3 to cover that point, the existing 1.1.3 to be renumbered 1.1.4.

3.4 The delegate of Finland proposed that instead of making a new sub-section, it would be sufficient to insert in sub-section 1.1.2 "415 - 435 kHz and" after the words "in the bands".

It was so agreed.

3.5 The Chairman of Committee 5, in response to a question by the delegate of the Federal Republic of Germany, confirmed that the band 415 - 435 kHz had also been planned for F1B emissions.

3.6 The delegate of the Federal Republic of Germany said that if the term "frequency shift" was to be used instead of "frequency deviation", as indicated by the Chairman of Committee 7, the value should not be given as a ± value, but as a whole number, i.e. 170 Hz.

3.7 The Chairman of Committee 7 said that the Editorial Committee had contacted the CCIR on that issue, and had taken the wording from Appendix 6 of the Radio Regulations where the term "frequency shift" was used. The representative of the CCIR confirmed that the term "frequency shift" was preferable.

It was agreed to use the term "frequency shift 170 Hz".

3.8 The delegate of Spain said that the frequency 2 045 kHz in sub-section 1.1.2 and the frequency 2 160 kHz in sub-section 1.1.3 should each be replaced by 2 141.5 kHz in accordance with earlier decisions.

3.9 The delegate of Algeria pointed out that the frequency 2 145.5 kHz was still in square brackets in the Annex to Recommendation No. COM 6/C (MM), and should therefore be placed in square brackets in sub-sections 1.1.2 and 1.1.3 of the present document until a decision had been taken with regard to Document 124.

It was so agreed.

3.10 The delegate of the Federal Republic of Germany supported by the delegate of Finland proposed that the designation of emission should be 2K35J3E, the necessary bandwidth being 2 350 Hz.

3.11 The Chairman of Committee 5 drew attention to Nos. 142, 4325 and 4194 of the Radio Regulations, from which it appeared that the designated bandwidth should be 2.8 kHz. The value in square brackets referred to Appendix 6 in which 2.7 kHz had been given as an example. The Chairman of Committee 7 supported that view.

3.12 The delegate of Sweden said that Committee 4 had approved the value of 2.7 as the necessary bandwidth, consequently the designation of emission would be 2K70J3E, which he suggested should be used in sub-section 1.1.3.

3.13 The Chairman invited the Chairman of Committee 4 to meet with the Chairmen of Committees 5, 6 and 7 and a representative of the IFRB to consider the kind of parameter the Conference wished to appear in sub-section 1.1.3 and how it should be described. The group would report back to the next meeting of the Plenary and sub-section 1.1.3 would be left in square brackets in the meantime.

It was so agreed.

3.14 The representative of the IFRB proposed that since the Plan was based only on ground-wave propagation, the title of 1.2.1 should be deleted and the text amended to read:

"The plans were established using ground-wave propagation which was calculated according to CCIR Recommendation 368-4 ...".

The footnote relating to 1.2 and paragraphs 1.2.2 and 1.2.3 should be deleted.

It was so agreed.

It was agreed to amend the fourth line of 1.3.2 to read:

"Bands 415 - 435 kHz and 435 - 526.5 kHz" and to amend the seventh line to read: "Bands 1 606.5 - 1 625 kHz and 2 045 - [2 141.5] kHz".

It was agreed to replace 2 160 kHz [2 141.5] kHz in 1.3.3.

It was agreed to amend the title of 1.7 to read: "Radiated power". The same amendment applied to the title of paragraph 2.7.

3.15 The representative of the Federal Republic of Germany proposed to re-word the first paragraph of 1.8 as follows:

"Due to constraints in the available computer program, the computer analysis of the Plan could not take account of propagation over mixed land/sea paths. This was, however, taken into consideration by administrations in a case-by-case analysis, when solving incompatibilities during the Conference."

It was so agreed.

It was further agreed to delete the second paragraph of 1.8.

3.16 Upon the proposal of the delegate of the Federal Republic of Germany, it was agreed to amend the title of 2.1 to read: "Class of emission" and to remove footnote 1.

After a short discussion it was agreed to delete the words "and on these parallels" in square brackets at the end of paragraph 2.3.1.

3.17 The representative of the IFRB proposed to amend paragraph 2.6 as follows:

"Planning was based on a channel spacing of 1 kHz. However, in exceptional cases, and for national use only, interleaved channels at 0.5 kHz were used, without adversely affecting assignments in the Plan on integer multiples of 1 kHz."

It was so agreed.

3.18 The delegate of France said that in the French version of the title of 3.3 the words "vice-versa" would lead to confusion.

After a short discussion it was agreed to amend the title of section 3 to read:

"Compatibility between the maritime mobile service and the aeronautical radionavigation service in the planned bands"

and to delete the title and text under paragraph 3.3.

3.19 Referring to paragraph 5, the representative of the IFRB said that the Board's analyses distributed to delegations did not give the exact situation of the incompatibilities between the Plan and the permitted and primary services because the calculations had been based on a program using the sky-wave propagation and the original service range notified by the administrations, and not the range adopted by the Conference. The text in paragraph 5 was therefore no longer correct and he had an alternative text to propose.

At the suggestion of the Chairman it was agreed to set up a drafting group consisting of the representative of the IFRB and the delegate of the Federal Republic of Germany to consider that matter.

It was agreed to delete Figure 2 (Sky-wave propagation - maritime mobile service).

Part B

It was agreed to amend sub-paragraphs 1.2 a) and b) as follows:

"a) Stations of the maritime mobile service interfering with stations of the maritime mobile service:
Part A, Sections 1.2 and 1.3 to 1.7.

b) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:
Part A, Sections 1.2, 1.7 and 2.3 to 2.7."

3.20 Upon the proposal of the delegate of the Federal Republic of Germany, it was agreed to delete paragraph 2.1 and to amend the title of Section 2 to read:

"Administrations having an assignment recorded in the Master International Frequency Register for an unplanned primary or permitted service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz."

Part C

3.21 The representative of the IFRB proposed to amend the title of Part C by replacing the words "No. 1241 of the Radio Regulations" by the words "Article 6 of the Agreement", and to amend the text by replacing the words "No. 1241 of the Radio Regulations (see Article 6 of the Agreement)" by the words "Article 6 of the Agreement".

It was so agreed.

Recommendation No. COM 6/D (MM)

The fourth series of texts submitted by the Editorial Committee (B.4) was approved at first reading.

4. Acceptance of Moroccan credentials

4.1 The Chairman of Committee 2 announced that Morocco's credentials had been received and found to be in order, and that Morocco was consequently entitled to vote and to sign the Final Acts.

The meeting rose at 1235 hours.

The Secretary-General: R.E. BUTLER

The Chairman: T. HAHKIO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 157-E
25 March 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

SIXTH PLENARY MEETING

Wednesday, 13 March 1985, at 1445 hrs and at 1840 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:		Documents
1.	Fourth series of texts submitted by the Editorial Committee to the Plenary Meeting for first reading (Series B.4) (continued)	127
2.	Third series of texts submitted by the Editorial Committee to the Plenary Meeting for first reading (Series B.3)	124
3.	Note by the Chairman of Committee 4	DL/10
4.	Second report by the Chairman of Committee 5	132
5.	Proposed text to replace resolves 2 of Resolution No. COM 6/1	DL/9
6.	Fifth series of texts submitted by the Editorial Committee for first reading (B.5)	142
7.	Draft Frequency Assignment Plan for stations in the maritime mobile service	135

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Fourth series of texts submitted by the Editorial Committee to the Plenary Meeting for first reading (Series B.4)
(Document 127) (continued)

ANNEX 2 PART A (continued)

1.1 The Chairman of Committee 4 reported that the ad hoc Group appointed to consider the parameters which should appear in sub-section 1.1 (Designation of emission) had agreed that the term "designation/s" should be replaced by the term "class/es" throughout and that the bandwidth indications preceding the types of emission A1A, F1B and J3E should be deleted as unnecessary.

Sub-section 1.1 was approved with those amendments.

2. Third series of texts submitted by the Editorial Committee to the Plenary Meeting for first reading (Series B.3)
(Document 124)

2.1 The Chairman introduced the six Annexes contained in Document 124.

ANNEX 1

The Plan column headings for the Frequency Assignment Plan (Region 1) for stations of the Maritime Mobile Service were approved with the amendment of the following column numbers to read:

1. Assigned frequency (kHz)

7. Service range (km)

9. Class of emission

2.2 The Chairman of Committee 5 said that a footnote should be added to column heading 9, to read:

"In the frequency bands between 415 and 526.5 kHz, A1A emissions may be used on F1B assignments and vice-versa".

It was so agreed.

ANNEX 2

The Plan column headings for the Frequency Assignment Plan (Region 1) for stations of the Aeronautical Radionavigation Service (radiobeacons) were approved with the amendment of column 7 heading to read:

"7. Radius (km) of the circular service area".

2.3 The Chairman of the Editorial Committee said that in dealing with the Chanelling arrangement (Annex to Recommendation No. COM 6/A (MM)), consideration should be given to adding the footnote in Document 111(Corr.2) and the note proposed by Committee 6 in paragraph 3 of the Annex to Document 130.

2.4 The representative of the IFRB said the decision that the tables in Document 124 should form Annex 3 to the Agreement entailed providing them with a title and suggested that it should be:

"Channelling arrangements in the bands 415 - 526.5 kHz and 1 606.5 - 2 160 kHz".

It would be a simple matter to add the footnote in Document 111(Corr.2) to the particular table under consideration. The note proposed in Document 130 Annex paragraph 3 and the channels in the bands to which it referred should also be added to enable the IFRB to apply the Agreement.

2.5 The delegate of the Netherlands proposed the addition of a further footnote concerning the four ship station frequencies for Morse radiotelegraphy in the last column of the table to read:

"See Radio Regulation No. 4237 and Recommendation No. COM 5/A".

2.6 The Chairman of Committee 7 suggested that a Working Group be established to redraft the Annex so as to take account of all the changes proposed, the revised version to appear in a pink document with the amendments in square brackets.

2.7 The Chairman of Committee 4 suggested that the Working Group might also consider adding Channel No. 99 (coast station frequency 435 kHz) to the table, since that frequency too had apparently been assigned to the maritime mobile service.

2.8 The Chairman of Committee 5 said that his Committee had decided against using 435 kHz for the maritime mobile service because of the possibility of creating dangerous problems for the aeronautical radionavigation service. The assignments to 435 kHz in the draft Frequency Assignment Plan (Document 135) were contrary to that decision. The Plenary Meeting would have to decide whether they were to be maintained or not but the Committee's decision was clear.

2.9 The Chairman proposed that further consideration of the Annex to Recommendation No. COM 6/A (MM) be suspended pending its amendment by a Working Group consisting of Mr. Björnsjö (Sweden), the Chairman of Committee 5 and a representative of the IFRB (Mr. Berrada).

It was so agreed.

2.10 The Chairman of Committee 5 said that the square brackets around the figure 2 141.5 in the title of the table in the Annex to Recommendation No. COM 6/B (MM) should be deleted.

2.11 The delegate of Spain proposed that the words "narrow-band direct printing" in the title be replaced by the word "radio" and that the coast and ship station columns corresponding to Channel Nos. 201 to 228 should indicate that those frequencies were for both NBDP and DSC use.

It was so agreed.

2.12 The Chairman said that the square brackets should be deleted from the heading of the Annex to Recommendation No. COM 6/C (MM).

2.13 The delegate of Sweden suggested that "(carrier frequency)" should be added in the right-hand column of the table.

2.14 The Chairman of the IFRB confirmed that that addition was appropriate in the present table and it was so agreed.

2.15 The Chairman of Committee 6 pointed out that Committee 6 had not prepared a Recommendation No. COM 6/.. (MM). The channelling arrangements should be annexed to the Plan.

2.16 The Chairman of Committee 7 said that the arrangements would be included in Table 4 of Annex 3.

2.17 The delegate of Yugoslavia proposed that the frequency 415 kHz should be included in the channelling arrangements. Those stations which did not interfere with the maritime mobile stations had been included in the planning procedure and could therefore be included in the Plan.

2.18 The Chairman of Committee 5 said that, while it was true that the frequency 415 kHz had been included, in fact its use would contravene the Radio Regulations, so the assignments could not be included in the Plan. He suggested that administrations could have their attention drawn to the possibility of using it and an explanatory note could be attached to the unsatisfied requirements list.

2.19 The delegate of the USSR stressed that the 415 kHz frequency should not be included in the Plan.

2.20 The delegate of Saudi Arabia regretted that, despite his Administration's very modest requirements, they had been affected by the 415 kHz assignments, some of them were given in the unsatisfied requirements list. He felt that compensation must be made by means of other assignments if the 415 kHz frequency were not included in the Plan.

2.21 The delegate of Sweden pointed out that channel 34, frequency 526 kHz had been omitted from the table.

The Chairman of Committee 5 agreed that it was an omission which could be rectified.

2.22 The representative of the IFRB said that the frequency 526 kHz could not be included without qualification as to an assigned bandwidth because in the 2 MHz band it would conflict with the Radio Regulations where those frequencies were reserved for broadcasting.

2.23 The Chairman of Committee 5 said that, unfortunately, the Plan showed a figure of 214 kHz. A solution to the problem would have to be found through further informal discussion.

2.24 The delegate of Sweden, referring to the footnote, said that although interleaved channels spaced at 0.5 kHz could be used only if that did not cause harmful interference to assignments recorded in the Plan, the converse was also true and he therefore proposed that the text should be amended.

2.25 After a lengthy discussion in which the delegates of Algeria, the USSR, France, Poland, the Chairman of Committee 5 and the representative of the IFRB participated, it was decided to set up a Drafting Group comprising delegates of Sweden, the United Kingdom, the USSR, the Chairman of Committee 5 and the representative of the IFRB under the chairmanship of the delegate of Algeria to produce a revised text.

2.26 The Chairman of the IFRB said that certain channels in the table should be limited to emissions on a bandwidth less than 2 kHz.

2.27 The delegates of Finland and Italy pointed out that for some channels the restriction should be to 1 kHz, not 2 kHz.

2.28 The Chairman suggested that the Drafting Group should produce a suitably worded footnote for inclusion.

It was so agreed.

The meeting was suspended at 1700 hours and resumed at 1840 hours.

3. Note by the Chairman of Committee 4 (Document DL/10)

The meeting took note of the amended paragraph 5 of Document B.4.

4. Second report by the Chairman of Committee 5 (Document 132)

The meeting took note of Document 132.

5. Proposed text to replace resolves 2 of Resolution No. COM 6/1 (Document DL/9)

5.1 The delegate of Greece said that he could accept the proposed text on the understanding that the application of resolves 3 provided protection for current frequency assignments.

The meeting approved the text in Document DL/9.

6. Fifth series of texts submitted by the Editorial Committee for first reading (B.5) (Document 142)

Resolution No. COM 5/1 (MM)

6.1 The delegate of France said that in Annex 1 "Réunion" should be transferred from Group 1 to Group 2, and "Mayotte" added to Group 3. Similarly, in Annex 2 "Réunion" should be transferred from Group 2 to Group 3 and "Mayotte" should be added to Group 5.

6.2 The delegate of Egypt said that in Annex 1 "Egypt" should be moved from Group 1 to Group 3.

Resolution No. COM 6/4 (MM)

It was agreed to delete the footnote and the square brackets in urges paragraph 2.

Recommendation No. COM 5/B (MM)

6.3 The Chairman of the IFRB proposed that recommends paragraph 3 should be amended to read:

"making provisions in the Radio Regulations for the frequency pairs to be available on a world-wide basis for digital selective calling for national purposes;"

It was so agreed.

Subject to the above amendments, Resolutions Nos. COM 5/1 (MM) and 6/4 (MM) and Recommendations Nos. COM 5/A (MM) and COM 5/B (MM) were approved on first reading.

7. Draft Frequency Assignment Plan for stations in the maritime mobile service (Document 135)

7.1 The Chairman of Committee 5, introducing the document, said that general reservations had been entered by the delegations of the USSR and Poland. The information on pages 1, 2 and 3 should be amended in accordance with the decision taken by the Plenary in connection with the third series of texts submitted by the Editorial Committee (Document 124). The information in column 7 (service range) was in kilometres converted from nautical miles; the figures would be rounded off later. A decision by the Plenary was required on whether or not to accept the assignments on 435 kHz. Committee 5 had decided not to use that frequency for assignments of any kind; nevertheless, four or five such assignments appeared in the document, and he personally was of the opinion that, given their small number, they should be allowed to remain.

7.2 The Chairman of the IFRB said that the information in column 9 would be amended after the Conference in compliance with the Plenary's decision to delete bandwidths other than F1B from the Plan.

7.3 The delegate of Iraq said that a number of his Administration's requirements had been given a reduced service range. In the case of Iraq's coast station, which was located on a canal some 70 km inland, the range indicated as 98 km would in reality be effective for only 28 km. An explanation would be appreciated, particularly in view of the fact that some countries had been given all their requirements with the full range.

7.4 The delegate of Kuwait said that his Administration's only requirement in the 500 kHz band, which had not been met in the Plan resulting from the second computer run, still remained unsatisfied in the document under consideration.

7.5 The delegate of Tunisia said that 37 assignments requested by his Administration remained unsatisfied in spite of his representations to the Planning Group. One assignment which had appeared in a previous document was absent from the draft Plan now under consideration. He urged the Plenary to satisfy at least some of his Administration's requests.

7.6 The delegate of Spain pointed out that, doubtless owing to a computer error, nine of his country's assignments were shown in class F1B instead of A1A. Referring to the title of the document, he remarked that the fact that the draft Plan dealt only with coast stations should be clearly indicated.

7.7 The delegate of the Federal Republic of Germany, also referring to the title of the Plan, remarked that the upper band (2 045 - 2 160 kHz) did not appear in the actual Plan. An explanation of the reason for that omission, as well as other similar ones, should be inserted wherever appropriate in the Plan.

7.8 The delegate of Poland supported that suggestion. Alternatively, a note referring to the channelling arrangements set out in Document 124 might be placed at the beginning of the Plan.

7.9 The delegate of Algeria said that his delegation, too, had difficulties in connection with the service range, the class of emission and the fact that certain omissions resulting from the first and second computer runs were still not rectified in the draft Plan appearing in Document 135.

7.10 The delegate of France drew attention to a further difficulty arising in connection with the pairing of frequencies.

7.11 The Technical Secretary said that errors relating to classes of emission should be notified directly to the Secretariat. With regard to column 7 (service range), he recalled that an unofficial document showing the real distance in nautical miles had been circulated in Committee 5 and had not given rise to any objections. The distances shown in Document 135 were the same, converted into kilometres.

The meeting rose at 2015 hours.

The Secretary General: The Chairman:

R.E. BUTLER T. HAHKIO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 158-E
15 April 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

SEVENTH PLENARY MEETING

Thursday, 14 March 1985, at 0900 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:		Documents
1.	Third series of texts submitted by the Editorial Committee for first reading (B.3)	124(Add.1)
2.	Sixth series of texts submitted by the Editorial Committee for first reading (B.6)	146
3.	First series of texts submitted by the Editorial Committee for second reading (R.1)	148
4.	Second series of texts submitted by the Editorial Committee for second reading (R.2)	149
5.	Third series of texts submitted by the Editorial Committee for second reading (R.3)	151
6.	Fourth series of texts submitted by the Editorial Committee for second reading (R.4)	152

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Third series of texts submitted by the Editorial Committee for first reading (B.3) (Document 124(Add.1))

1.1 The representative of the IFRB suggested that in paragraph 3 (the note to be added against Channel 21), the phrase in brackets should be replaced by "(see Article 14)".

1.2 The Chairman suggested that that phrase should be expanded to read: "(see Article 14 of this Agreement)".

The notes contained in Document 124(Add.1) for addition to page B.3/b, as amended, were approved.

The third series of texts submitted to the Plenary Meeting for first reading (B.3 (MM)), as amended, were approved.

2. Sixth series of texts submitted by the Editorial Committee for first reading (B.6) (Document 146)

Recommendation No. COM 6/E (MM)

2.1 The delegate of Spain said he would prefer the title of the Recommendation to refer to carrier frequencies rather than to assigned frequencies.

The representative of the IFRB having pointed out that it was usual to refer to assigned frequencies in this context, the delegate of Spain said he would not press his point.

Recommendation No. COM 6/E (MM) was approved at first reading.

3. First series of texts submitted by the Editorial Committee for second reading (R.1) (Document 148)

3.1 The Chairman of the Editorial Committee pointed out that Article 3, paragraph 8, Article 4, paragraph 18(bis) and Articles 13 and 14 required both first and second reading.

Article 3

3.2 The delegate of Spain suggested that in paragraph 8 the figure 2 160 kHz should be replaced by 2 141.5 kHz.

3.3 The delegate of Finland proposed that "shall take all necessary steps" should be replaced by "shall take all practicable steps", since it might not be possible in practice for administrations to ensure that ship stations would not use frequencies outside the service area.

3.4 The delegate of Denmark supported by the delegate of Norway, said the existing text of paragraph 8 had been agreed in Committee 5 as part of the planning process. Since the Plan packed the frequencies as tight as possible, many adjacent frequencies had been assigned to neighbouring coast stations. It could cause problems if frequencies outside the coverage range specified in the Plan were used, and it was essential to have a provision in the Agreement clearly stating that that should be prevented. He therefore strongly opposed the Finnish proposal since the proposed amendment would render the paragraph useless.

3.5 The delegate of France agreed with the Finnish delegate that in practice it would be impossible to prohibit communications between ship and coast stations when propagation conditions were favourable. He proposed that paragraph 8 be deleted.

3.6 The delegate of Tunisia supported that proposal.

3.7 The Chairman of Committee 5 stressed that unanimous agreement had been reached on paragraph 8 in Committee. It would be unfortunate if the Plenary created a precedent by reopening the discussion.

3.8 The delegate of Sweden strongly objected to the deletion of the paragraph. He pointed out if it had not been decided to limit the ranges, a much higher percentage of requirements would have remained unsatisfied.

3.9 After some further discussion, the delegate of the United Kingdom proposed as a compromise formula "all necessary and practicable steps".

That amendment was agreed.

Article 4

3.10 The Chairman pointed out that the square brackets should be removed from paragraph 18(bis).

3.11 The representative of the IFRB requested that it should be recorded in the minutes that the Conference, when adopting the Plans forming Annexes 1 and 2 to the Agreement, was aware that those Plans were compatible with each other. That was not made clear in the Agreement.

He further stated that the procedure outlined in Article 4 did not mention receiving coast stations. As it was not feasible to review the whole procedure, he suggested that the problem could be resolved by inserting a new paragraph at the beginning of section B, worded:

> "The provisions of this section apply equally to transmitting and receiving coast stations. The Agreement referred to in this section shall apply to a pair of frequencies as indicated in Annex 3."

3.12 The Chairman of Committee 6 and the delegates of Sweden and Norway supported that proposal.

It was so agreed.

3.13 The representative of the IFRB agreed with the delegate of Spain that paragraph 28 did not concern coast stations and should be deleted.

Article 5

3.14 The representative of the IFRB said that the adoption of the new paragraph in Article 4 made it necessary to insert a new paragraph 35bis in Article 5, as follows:

> "Notices of frequency assignment to receiving coast stations submitted under paragraphs 14 and 28 of Article 4 for which it has not been possible to reach agreement shall be recorded in the Master Register with a special remark indicating that the entry is made on condition that no protection be claimed against any harmful interference that may be caused by the assignment of the administration with which agreement has not been reached."

3.15 The delegates of Kenya and Sweden supported the proposal.

The proposal was approved.

3.16 After a technical discussion on the consequences of the use by a ship station of a notified frequency outside the planned band, in which the delegates of France, Sweden, Denmark, the Federal Republic of Germany, Finland, and the representative of the IFRB took part, it was proposed to add the following footnote to Table 3 of Annex 3 (Document 152):

"An administration may, however, assign to ship stations a frequency in an unplanned band in which case, the procedure provided for in Article 12 of the Radio Regulations shall apply."

Article 13

3.17 The Chairman said that the text had been prepared by Committee 6 after consultation with the Legal Adviser and had been unanimously adopted. The asterisk against "Article 13" should be removed and the footnote deleted.

3.18 The delegate of the Federal Republic of Germany suggested that the text should be brought into line with the title by inserting "replaces" and "replaced" after "abrogate" and "abrogated".

It was so agreed.

Article 14

3.19 The Chairman proposed, as an alternative to leaving Article 14 in abeyance, that it should be approved on condition that a space be left blank for the date to be adopted for the entry into force of the Agreement and that, if necessary, the following phrase should be added: "not earlier than" whatever date might be decided on for the entry into force of relevant provisions to be adopted by a future competent WARC. The asterisk against Article 14 should be removed and the footnote deleted.

It was so decided.

The first series of texts submitted by the Editorial Committee (R.1) was approved as amended on second reading, subject to the conditions regarding the date and the possible addition of the aforesaid phrase.

4. Second series of texts submitted by the Editorial Committee for second reading (R.2) (Document 149)

4.1 The Chairman of the Editorial Committee pointed out that section 5 of Annex 4 required both first and second reading.

4.2 The delegate of the Federal Republic of Germany said that the heading of section 5 no longer corresponded to the text. The words "Technical criteria applied for the" should be deleted so that the title reads "Protection of frequency assignments ...".

It was so agreed.

Section 5 of Document 149, as thus amended, was approved at first reading.

The second series of texts submitted by the Editorial Committee (R.2) (Document 149) was approved at second reading.

5. Third series of texts submitted by the Editorial Committee for second reading (R.3) (Document 151)

5.1 The Chairman of the Editorial Committee drew attention to minor editorial corrections in Annex 1 and Annex 2 to Resolution No. COM 5/1 and to the fact that certain parts of Resolution No. COM 6/1 required both first and second reading.

Considering e) and paragraphs 2), 2bis and 4) of Resolution No. COM 6/1 were approved at first reading.

5.2 The Chairman of the Editorial Committee said that when the Conference had agreed upon the date of entry into force of the Plan, the square brackets would be removed and the appropriate date inserted in recommends of Recommendation No. COM 5/A.

The third series of texts submitted by the Editorial Committee (R.3) (Document 151) were approved at second reading.

6. Fourth series of texts submitted by the Editorial Committee for second reading (R.4) (Document 152)

6.1 The Chairman of the Editorial Committee noted that the footnote to Annex 1, Annex 3 and the notes to Table 1, the new footnote to Table 3 proposed by the representative of the IFRB and the footnote with one asterisk to Table 4 required both first and second reading.

The footnote to Annex 1 was approved at first reading.

6.2 The delegate of Sweden said that a slight mistake had occurred in Table 1 of Annex 3. The coast station and ship station frequencies corresponding to Channels 85 to 93 should be reversed. Moreover, in footnote a) "Channel No. 111" should read "Channel No. 80" and "Channels Nos. 112-114" should read "Channels Nos. 81-83".

6.3 On a proposal by the delegate of Greece, it was agreed that footnote c) applied also to the fifth and eighth columns of the Table and a reference to it should be inserted in the heading to those columns.

6.4 The delegate of Sweden said that the 490 kHz frequency had not been used in the channelling arrangement since it was the international channel for safety purposes; the failure to use it resulted in uneven pairing and hence the 505.5 kHz frequency had also not been used in the channelling arrangement.

6.5 The delegate of France, supported by the delegates of the Federal Republic of Germany and Portugal, said he understood that it had been decided that the 435 kHz frequency should not be assigned to either service and he therefore proposed its deletion from Table 1 in which it was assigned to the maritime mobile service. However, those assignments which had been entered in the Plan on that frequency should be retained so as not to penalize the administrations which had obtained them.

6.6 The delegate of the USSR drew attention to paragraph 2 of Document 85, which indicated that Committee 5 had decided that the frequency 435 kHz should be used within the planning process basically for the maritime mobile service. He therefore proposed that it be retained in Table 1.

6.7 The Chairman of Committee 5 said it appeared that that decision had subsequently been reversed but that nevertheless the frequency had been used by the Planning Groups. He thought that the few assignments which had been made to it would do no harm and could be retained. It was for the Plenary to decide what course should be followed.

6.8 The delegate of France confirmed that the decision in Document 85 had been reversed. The question had been studied in depth and it had been decided that assignments to maritime mobile stations on 435 kHz might endanger safety in the aeronautical radionavigation service.

6.9 The delegate of Italy said that the assignments made might be retained in the Plan with a note saying they had been coordinated for the implementation of the Plan and that they would be subject to normal coordination under the Radio Regulations.

6.10 The delegate of Algeria drew attention to Article 4bis which had just been adopted (R.1). To enable administrations which had been allocated assignments on that frequency to retain them, Channel 40 must be kept in the Table with an additional note.

The meeting rose at 1220 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 159-E
15 April 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

EIGHTH PLENARY MEETING

Thursday, 14 March 1985, at 1400 hrs and at 2100 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:	Documents
1. Fourth series of texts submitted by the Editorial Committee for second reading (R.4) (continued)	152
2. Fifth series of texts submitted by the Editorial Committee (R.5)	153
3. Sixth series of texts submitted by the Editorial Committee (B.6)	146
4. General consideration of draft frequency assignment plans (continued)	135, 136, 137, 138
5. Reading of draft frequency assignment plan for stations in the maritime mobile service	135
6. Reading of draft frequency assignment plan for stations in the aeronautical radionavigation service (radiobeacons)	136
7. Third and last report of Committee 6 to the Plenary Meeting	129

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1. Fourth series of texts submitted by the Editorial Committee for second reading (R.4) (Document 152) (continued)

It was agreed, in view of Committee 5's decision, that channel 40 should be deleted from Table 1 in Annex 3 but that the 435 kHz frequency should remain in the Plan so that assignments which had already been allocated and had been coordinated would remain.

It was agreed that the frequency 505.5 kHz should be added to the four frequencies in the third column of Table 1 and also to note c) and that since it was in the reduced guard band a small e) should be added to it in the table.

Table 1 of Annex 3 and the notes thereto were approved at first reading.

After a short discussion it was agreed to add a note to Table 3 of Annex 3, reading as follows:

"An administration can, however, assign to a coast station a receiving frequency in an unplanned band, in which case the procedure in Article 12 of the Radio Regulations applies."

After a discussion in which the delegates of the Federal Republic of Germany, Algeria, Sweden and Cameroon took part, it was agreed to amend footnote * to Table 4 in Annex 3 as follows:

"Exceptionally, for national purposes, administrations may use interleaved channels spaced at 0.5 kHz except on 517.5 kHz and 518.5 kHz, and provided that such use does not cause interference to assignments on regular channels. Moreover, such assignments, except those included in the Plan as established by the Conference (see Annex 4, section 2.6), shall not prevent additional assignments being made on regular channels or modifications to the Plan on regular channels."

Footnote * to Table 4 was approved at first reading.

The fourth series of texts submitted by the Editorial Committee (R.4) (Document 152), as amended, was approved at first reading.

1.1 The Chairman then invited the Plenary to proceed to the second reading of the fourth series of texts.

Upon the proposal of the representative of the IFRB, it was agreed to amend the word "carrier" in footnote 1 to Annex 2 to read "mean".

Annex 2, as amended, was approved at second reading.

It was agreed to amend footnote **** to Table 4 to read:

"This channel is limited to emissions with a bandwidth of less than 2 kHz until the date decided by a future radio conference (see Article 14 of this Agreement)."

Footnote **** to Table 4 was approved at second reading.

The fourth series of texts submitted by the Editorial Committee (R.4) (Document 152), as amended, was approved at second reading.

2. Fifth series of texts submitted by the Editorial Committee for second reading (R.5) (Document 153)

2.1 The Chairman of the Editorial Committee pointed out that it had already been agreed to include in the annexes to Recommendations Nos. COM 6/A (MM), COM 6/B (MM) and COM 6/C (MM) the Tables in Annexes 1 - 4 which had just been considered in the fourth series of texts. The Plenary had to decide whether those annexes should be reproduced once again as annexes to the three Recommendations.

After a short discussion it was agreed to delete the two sets of square brackets in the annex to Recommendation No. COM 6/A (MM) and to insert in that annex Table 1 to Annex 3 of Document 152.

It was further agreed to include notes a) to d) of Table 1 to Annex 3 of Document 152 in the annex to Recommendation No. COM 6/A (MM) and to add to them a footnote e) reading as follows:

"This frequency shall not be used until the date to be decided by the Conference mentioned in Resolution No. 206 (MOB-83)."

It was agreed to delete the two sets of square brackets from the annex to Recommendation No. COM 6/B (MM) and to include in that annex Table 2 to Annex 3 (Document 152) together with the relevant footnote.

The above parts of the fifth series of texts submitted by the Editorial Committee (R.5), as amended, were approved at first reading.

2.2 The Chairman invited the Plenary to proceed to the second reading of the fifth series of texts.

2.3 The delegate of Spain proposed that the text of the Recommendations be amended so as to include a request to the Secretary-General to bring them to the attention of all administrations.

At the suggestion of the Secretary-General it was agreed to record that wish in the minutes of the meeting.

The fifth series of texts submitted by the Editorial Committee (R.5) (Document 153) was approved at second reading.

3. Sixth series of texts submitted by the Editorial Committee (B.6) (Document 146)

3.1 The Chairman of the Editorial Committee drew attention to the fact that the sixth series of texts was being submitted for second reading, since it had already been considered at the previous meeting. It was proposed to entrust the Secretariat with the final numbering.

It was agreed to delete the square brackets around the frequencies mentioned in b) of "considering" of Recommendation No. COM 6/E (MM).

The sixth series of texts submitted by the Editorial Committee (B.6) (Document 146), as amended, was approved at second reading.

At the request of the Secretary-General, it was agreed to record in the minutes that the Plenary had decided to entrust to the Secretariat, in accordance with usual practice, the numbering of chapters, Resolutions, etc. and the correction of material errors.

4. General consideration of draft frequency assignment plans (Documents 135, 136, 137 and 138)

4.1 The Chairman invited the delegate of Sweden to describe the planning process and the results achieved in the hope that such an introduction to the consideration of the draft plans would answer questions and settle concerns which might otherwise be raised by delegates.

4.2 The delegate of Sweden described the various stages of the planning process in detail with respect to the different frequency bands and services. At each stage, planning had been in accordance with the instructions of Committee 5. In the case of radiotelegraphy in the 500 kHz band, it had been possible finally to satisfy all but about 30 requirements by progressively reducing the range or protection given to assignments. In the 1 600 kHz band, only some 13% of all requirements remained unsatisfied.

So far as the Plan for maritime mobile stations (Document 135) was concerned, column No. 7 required a number of minor corrections. Another point was that in the case of some stations, two requirements had been submitted and assigned for the same frequency so that the administration concerned could use either A1A of F1B emissions. In some of those cases, the computer print-out showed the class of emission as F1B even though the requirement had been for A1A, but as the footnote to column No. 9 indicated, that did not mean A1A transmissions were excluded. In a number of such cases, the range of the second assignment to the same frequency had been wrongly shown as the same as the first, although the requirement had in fact been met with reduced range.

4.3 The delegate of Ghana said that a number of problems which he had raised during the planning process seemed not to have been addressed, judging by the contents of Document 135.

4.4 The Chairman of Planning Group 5A said that Document 135 did not in fact include four assignments made to satisfy requirements submitted by Ghana under the special derogation allowed during the planning process. However, those assignments had been communicated to the delegate of Ghana in a separate listing.

4.5 The Chairman suggested that the delegate of Ghana take up his problems directly with the Chairman of Planning Group 5A.

4.6 The delegate of Tunisia said that he shared the delegate of Ghana's view. His own country still had 37 unsatisfied requirements for the maritime mobile service and nine for aeronautical radiobeacons.

4.7 The delegate of Denmark said that it had proved impossible to accommodate any more of Tunisia's requirements during the planning process because of that country's geographical situation and the limited number of channels available to meet its 44 requirements in the 2 MHz band. He was prepared to make a further attempt, but he pointed out that the main Tunisian coast stations had been given at least one frequency and some had two. It was true that one assignment had had to be withdrawn, but that was because it had been in the wrong band and no replacement was available.

4.8 The delegate of Tunisia said that each of his country's 12 coast stations had four separate stations for different services so that it was incorrect to say that each station had two assignments. Some did not have even one.

4.9 The delegate of Sweden pointed out that the bands being planned were not the only ones available and that it should be possible to find assignments in nearby bands for unsatisfied requirements.

4.10 The Chairman of Working Group 5A said that Tunisian coast stations had been assigned 17 frequencies in the 500 kHz band.

4.11 The delegate of Spain said that the changing of the class of emission for nine of his country's coast station assignments from A1A to F1B was a serious problem. When the assignments were brought into service, it would be necessary to notify the IFRB which class of emission was to be used. He wished to know if the Board would be in a position to object if the notification specified A1A emissions for stations given F1B assignments under the Plan. If not, then all would be well; but he suggested that F1B assignments to stations for which A1A requirements had been submitted should be marked in some way to show that the stations concerned would be transmitting A1A signals.

4.12 The delegate of Greece said that he supported the delegate of Spain's suggestion because it would be important for administrations to know which coast stations with F1B assignments in neighbouring countries were in fact using A1A emissions.

4.13 The delegate of Sweden drew attention to the planning principle in Document 63, paragraph 2.1.3, stating that A1A signals could be transmitted on F1B assignments and vice versa. It had been agreed that notification of A1A transmissions on such frequency assignments would be accepted.

4.14 The Chairman of the IFRB said that the footnote to column heading No. 9 in Annex 2 (Document 152) also covered the point raised by the delegate of Spain.

4.15 The delegate of Portugal said that if it was the intention that all first frequency assignments should be for A1A emissions, a mistake had been made in the case of two of his country's coast stations which had been given F1B assignments.

4.16 The delegate of Iraq said he had been informed that his request for changes to resolve problems with certian assignments in Document 135 could not be met at such a late stage. He therefore wished to know how soon his Administration could resort to the procedure for modification of the Plan laid down in Article 4 of the Agreement.

4.17 The representative of the IFRB replied that the Article 4 procedure would normally be in force on the first day after the Conference ended, so that administrations would be able to ask for modifications to the Plan straightaway. However, the Board had been requested to update the Master Register and new computer software had to be developed for that purpose. It might therefore be up to a year before the Board could process requests for modifications to the Plan.

4.18 The delegate of Denmark said that changes to the draft Plan would require consideration of the protection of adjacent channels, which was difficult to assess. It would be better to use the modification procedure, which involved the technical examination of adjacent channels, than to seek to make changes during the Conference.

4.19 The delegate of the United Kingdom said that it would have been miraculous if the Conference had satisfied everyone. His Administration too had been left with 25 unsatisfied requirements in the maritime mobile service and 11 for aeronautical radiobeacons, but he would not pursue those requirements and was ready to accept the plans as the best which could be made in the time available. He proposed to examine the reasons for the non-satisfaction of requirements after the Conference was over and to seek remedies through discussions with neighbouring countries and the modification procedure.

4.20 The delegate of the Federal Republic of Germany endorsed the United Kingdom delegate's sentiments.

Reverting to the subject of A1A and F1B assignments, he was concerned lest delegates might think they could simply "correct" F1B to A1A. Notifications to the IFRB had to be in accordance with the class of emission indicated in the Plan, even if it was proposed in fact to use A1A on F1B assignments.

4.21 The delegate of the USSR agreed that it would have been difficult to achieve an ideal plan in the time available and paid tribute to the enormous efforts made by the delegates of Denmark and Sweden in particular to meet all requirements. They had been unable to do so simply because there were more requirements than it was possible to satisfy. The USSR too had been left with many unsatisfied requirements but he was prepared to approve the Plan as the best available under the circumstances.

4.22 The delegate of Norway endorsed that view. His country had a very long coastline and although its requirements had been modest, 12 were still unsatisfied. Nevertheless, he could accept the Plan as the best possible compromise in the limited time available.

4.23 The delegate of France wondered how frequencies had been allocated in adjacent channels to two coast stations only 96 km apart which were responsible for communications up to a range of 400 km.

4.24 The Chairman of Working Group 5B, explained that the assignments had been made by computer, in accordance with the protection criteria adopted by Committee 5 and contained in Document 24. Although it might seem strange that coast stations in such close proximity could have adjacent channel frequencies, the program assignments should be accepted at the present stage, with the possibility of manual recomputation subsequently.

With respect to the present case he recalled that it had been agreed to use all 55 coast station channels in the planning process. As there were only 27 ship station channels, it had been decided to use them twice. Then, after an initial trial it had been necessary to change the channelling scheme for 2 MHz telephony so that adjacent channels would not be assigned the same ship station frequency. As it turned out the two stations in question had in fact received the same ship station frequency. It had unfortunately not been possible to plan both for coast station frequencies and ship station frequencies, and he called on administrations to accept the compromise and make the necessary adjustments after the Conference.

4.25 The delegate of France said it was not possible for two stations covering exactly the same traffic in the Channel and the North Sea to operate on adjacent frequencies when they were only 96 km apart. He would have to submit a reservation concerning those assignments during the reading of the Plan.

4.26 The delegate of Poland noted that 40% of his Administration's requirements in the single channel 2 MHz band, including assignments for two of the country's ports, had not been satisfied. Some 70% of the requirements had not been taken into account during the first computer run and had been processed as new requirements during the second run. When his delegation realized what had occurred, it had decided not to raise the problem in the Planning Group as time was very short. Nevertheless, his Administration was faced with a high proportion of unsatisfied requirements and would have to take the necessary action in accordance with the Radio Regulations and the Agreement.

4.27 The Chairman of Working Group 5B noted that for 2 MHz telephony only, Poland had submitted 26 requirements: seven had been rejected by the program and hence 55% had been satisfied. The reason why some stations were not taken into account during the first run was that Committee 5 had agreed on an order of priority for the processing of requirements, as stated in Document 53, sub-paragraph 2.1.1. However, in the second run an effort had been made to give Poland further frequencies and that had been possible in some cases. Moreover, six frequencies for Poland had been upgraded to make them applicable to more important stations and those changes were reflected in the Plan. The Chairman of Working Group 5A pointed out that the requirements for the two ports in question had been met, as well as all requirements in the 2 MHz band for F1B assignments.

4.28 The delegate of Spain pointed out that three frequencies for the important coast station of Tenerife had received F1B assignments in the first run. In the preparation of the Plan his delegation had proposed that an asterisk be placed next to F1B assignments that were to be used for A1A emissions, and he wondered why that had not been done. The situation was particularly serious for Tenerife and also Las Palmas, since they were already operating on A1A but would be changed to F1B after the Conference.

4.29 The Chairman of Working Group 5A explained that a mistake had been made in numbering the requirements for input to the computer. The third requirement for an A1A assignment had been given second priority and hence it had been entered for F1B protection; that would be changed to A1A.

4.30 The delegate of Greece stressed that neither his delegation nor that of Spain were asking for a change in the Plan but to have it restored to its initial form. It had been altered without the authorization of Committee 5 or the Plenary. It was clear from the deliberations of Committee 5 that the intention was to draw up a Plan that included A1A assignments with a reduced protection ratio, but not to convert A1A assignments to F1B. The relevant data were in the computer and could still be entered in the Plan. There would be no problem in relation to the IFRB, as there was a clear indication of the protection afforded to each assignment.

5. Reading of draft frequency assignment plan for stations in the maritime mobile service (Document 135)

5.1 The Chairman of the IFRB noted that the bandwidth had been omitted in column 9 so that the entries ended with the three symbols for the class of emission.

When considering channel arrangements, it had been decided to delete the channels associated with the 435.00 frequency, but to leave the assignments in the Plan. Therefore, against the six assignments concerned, the following remark should be added

to make it clear that the assignments had status in the Plan even though the channels themselves were not listed:

> "The assignments to these stations have been included in the Plan and are to be protected in the application of the Agreement, even though the frequencies are not included in Annex 3."

5.2 The Chairman of Committee 5 pointed out that it might not be necessary to request changes in the class of emission at the present stage of reading the Plan since A1A emissions could be used on F1B assignments and vice versa, as stated in the footnote on page R.4/1 (MM) of Document 152.

Page 1

5.3 The Chairman of Working Group 5A said that the figure "350" in column 7 should read "100" for entries 1570, 925 and 1011.

Page 2

5.4 The Chairman of Working Group 5A said that an entry for Ghana with serial No. 2830 should be included against frequency 436.5.

Page 3

5.5 The representative of Working Group 5A said that in column 7 the correct figures for entries 1561, 1183 and 1405 were "100", "100" and "200" respectively.

Page 5

5.6 In reply to the delegate of Spain who noted that station with serial No. 525 had received an F1B assignment although the previous assignment had been A1A, the Chairman of the IFRB said that the listing would be checked with a view to changing it to A1A if that could be fitted into the Plan without adversely affecting other assignments.

5.7 The Chairman of Working Group 5A said that the figure in column 7 for entry 1017 should read "100".

Page 7

5.8 The Chairman of Working Group 5A said that in column 7 the figures for entries 1428 and 1544 should read "100" and "200".

5.9 The representative of Working Group 5B said that entry 1022 should be deleted.

Page 8

5.10 The representative of Working Group 5A said that the figure in column 7 should read "100" for entry 1146.

Page 10

5.11 The Chairman of Working Group 5B, in reply to the delegate of Spain, who wondered why the assignment for station No. 524 was F1B when the previous assignment approved for inclusion in the Master Register had been A1A, said that an error had occurred during the planning process and would be corrected.

He also pointed out that the figures in column 7 for entries 1219 and 992 should read "200" and "100" respectively.

Page 11

5.12 The Chairman of Working Group 5A said that the figure "350" in column 7 should read "100" for entry 1325.

Pages 12 and 13

5.13 The Chairman of Planning Group 5A said that an entry for Ghana should be included against frequency 445.50 with serial No. 2834, radius 350 km and class of emission A1A.

He also explained in reply to the delegate of Spain, who wondered why the station No. 2691 had been given an F1B assignment when A1A was required, that an error had been made in the planning and that the necessary correction would be made.

The meeting was suspended at 1900 hours and resumed at 2100 hours.

Page 14

5.14 The delegate of Ghana said that GHA Takoradi, 01W45 04N54, should be listed against frequency 447.00; the entry in column 9 should read A1A.

5.15 The Chairman of Planning Group 5A confirmed that statement.

Page 15

5.16 The delegate of Portugal requested A1A protection for entry No. 584.

5.17 The Chairman of Planning Group 5A said that he would indicate later whether that request could be accommodated. He asked the Plenary to note that the figures in column 7 for entries 1326 and 1118 should be changed from 350 km to 200 km.

5.18 The delegate of Spain requested that the entry in column 9 for serial No. 529 should be changed to A1A.

5.19 The Chairman of Planning Group 5A said that that was unfortunately impossible.

5.20 The delegate of Tunisia said that all frequencies in the 400 kHz band assigned to his Administration, and in particular 2758, had been given F1B protection instead of A1A as requested.

5.21 The Chairman of Planning Group 5A said that A1A protection had been given to Station No. 2398 and F1B to the other two frequencies in the band assigned to Tunisia.

Page 16

5.22 The Chairman of Planning Group 5A said that the figures in column 7 for entries 1277 and 1387 should be changed to 100 km and 200 km respectively.

5.23 The delegate of Turkey requested A1A protection for station No. 2496.

5.24 The Chairman of Planning Group 5A said that Turkey had asked for F1B and the change could no longer be made.

5.25 The delegate of Iraq said that the station name of No. 2913 should read "FAO" instead of "BASRAH".

Page 17

5.26 The Chairman of Planning Group 5A said that the entries in column 7 for stations Nos. 1209, 1540, 1065, 1422, 1509, 951, 1229, 1230 and 1234 should be changed from 350 km to 185 km.

Page 18

The same correction should be made with respect to stations Nos. 1564, 1334 and 1500.

Page 19

Stations Nos. 1314, 1809, 1215 and 1391: 350 km corrected to read 185 km.

Page 20

5.27 The delegate of Portugal requested A1A protection for station No. 585.

5.28 The Chairman of Planning Group 5A said that he would look into the matter.

Page 21

5.29 The Chairman of Planning Group 5A said that the entry in column 7 for station No. 1417 should be changed to 100 km.

Page 22

5.30 The figures in column 7 for entries Nos. 1330 and 1546 should read 100 km and 200 km respectively.

Page 23

5.31 The delegate of Tunisia queried the figure of 98 km in column 7 against No. 2739. He also said that the entry in column 9 should be changed from F1B to A1A.

5.32 The Chairman of Planning Group 5A said that both entries were correct as printed.

Page 24

5.33 The delegate of Greece requested that station No. 2000 be given A1A protection because of the very heavy traffic involved.

5.34 The Chairman of Planning Group 5A said that the station had been placed in the second category of priorities in accordance with the explanations provided in Document 63. The entry of F1B in column 9 was therefore correct.

Page 25

5.35 The delegate of Tunisia questioned the entries in columns 7 and 9 for station No. 2737, pointing out that the station had been given A1A protection in Document 101.

5.36 The delegate of Finland, supported by the Chairman of Committee 5, said that the whole planning exercise had been carried out anew and Document 101 was therefore no longer valid.

5.37 The Chairman of Planning Group 5A said that one of the frequencies assigned to Bizerte Radio had been given A1A and the two others F1B protection, the service range being reduced in the case of No. 2737 as being the last of the three. He indicated further that the entry in column 7 for No. 972 should be reduced from 200 to 100 km.

Page 26

5.38 The Chairman of Planning Group 5A said that the entries in column 7 for stations Nos. 1067, 1321 and 1148 should be changed from 350 to 200 km.

5.39 The delegate of Tunisia, pointing out that the class of emission had been changed for a Tunisian station, asked whether the Planning Group had the right to change the class of emission indicated by an administration.

5.40 The Chairman said that the Planning Group was entitled to alter planning criteria so that as many requests as possible might be satisfied, and had done so in accordance with rules accepted by Committee 5. It could not, of course, change the type of modulation which an administration chose to use on a given frequency.

5.41 The Chairman of Planning Group 5B concurred with that interpretation and invited the delegate of Tunisia to consult the explanations supplied in Document 63 and the footnote to column 5 on page R.4/1 of Document 152.

Page 28

5.42 The Chairman of Planning Group 5A said that the entry in column 7 for No. 1144 should read 100 km. The inclusion of station No. 944 meant that No. 983 on page 1 of the Plan should be deleted.

5.43 After a short discussion in which the delegates of Iraq and Algeria as well as the Chairman of Working Group 5A took part, the Chairman of the IFRB said with reference to entry 2110, Alger Radio, that the figure in column 1 should read "435.00" and not "526.00".

Page 29

5.44 The entry in column 7 for No. 1426 should read 200 km.

Pages 31 and 32

5.45 The Chairman of the IFRB said that the entries in column 6 for Nos. 2906 and 2907 were incorrect, doubtless as a result of an error in the coordinates supplied by the Tunisian Administration. The entries should be changed from 001E11 to 010E11.

5.46 The Chairman of Planning Group 5B said that the correction gave rise to a serious problem in connection with Italy's station No. 704.

5.47 After some discussion, the delegate of Tunisia agreed to withdraw No. 2906 from frequency 1 612.50 in favour of Italy's No. 704.

Page 35

5.48 The delegate of Tunisia pointed out that the same frequency (1 618.50) had been assigned to Nos. 2867 and 2869 although the distance between Bizerte and Sfax was only 270 km.

5.49 The Chairman of Planning Group 5E said that, in the attempt to satisfy as many requirements as possible, he had relied on the fact that those two stations served different parts of the Mediterranean and were separated by land rather than by sea. Moreover, additional attenuation was provided by mountains. He had understood that the assignment was acceptable to the Tunisian delegation and regretted if that was not the case.

Pages 36 and 37

5.50 The Chairman of the IFRB said that the entries in column 9 of Nos. 2387 and 2381 should be changed from F1B to J3E.

5.51 The delegate of Tunisia asked why No. 2768, appearing on page 6 of the list of non-satisfied requirements (Document 137), had not been reinstated in the Plan.

5.52 The Chairman of Planning Group 5B said that the wrong band had been indicated in the requirement, so that he had no choice but to delete the station. He also indicated that the entry in column 7 for No. 1398 should be changed from 400 to 200 km.

Pages 38 and 39

5.53 The Chairman of Planning Group 5B said that the entries in column 9 for Nos. 2385 and 2383 should be changed from F1B to J3E.

5.54 The delegate of Spain requested that No. 2709 be replaced by No. 466 appearing on page 2 of the list of non-satisfied requirements. The two stations were close to one another and the modification was unlikely to cause any difficulty.

5.55 The Chairman of Planning Group 5B said that the request could be met.

Page 42

5.56 The Chairman of Planning Group 5B said that the entry in column 9 for item 2832 should be changed from F1B to J3E.

Page 44

5.57 The delegate of France said that the assignments to Nos. 1867 and 2200 would inevitably cause serious difficulties to French fishing vessels operating near the Belgian coast. Without wishing to challenge the technical criteria applied in the planning process, he nevertheless appealed to the Plenary to regularize the situation, bearing in mind the narrowness of the English Channel off Boulogne.

5.58 The delegate of Belgium endorsed that appeal.

5.59 The Chairman of Planning Group 5B said that more than 80% of all requirements had been met as a result of efforts to make optimum use of the available spectrum. The two stations referred to were only 70 nautical miles apart. It had been decided at the start of the Conference that frequency bands had to be packed as tightly as possible.

5.60 The delegate of Finland said that the type of situation referred to by the delegate of France was acceptable when the unwanted/wanted signal ratio was of the order of 1 to 50. Many similar situations were accepted by the countries involved.

Page 45

5.61 The delegate of the USSR requested that No. 1464 be replaced by No. 1470 appearing on page 8 of the list of non-satisfied requirements (Document 137). The entry in column 7 would remain unchanged.

5.62 The Chairman of Planning Group 5B said that the request could be met.

Page 48

5.63 The Chairman of Planning Group 5B said that the entry in column 7 for No. 1397 should be changed from 277 to 200 km.

Page 52

5.64 The Chairman of Planning Group 5B said that the station name of No. 2833 should read "Takoradi" and that the entry in column 9 should read J3E.

Page 53

5.65 The delegate of France said that his objections concerning Nos. 2200 and 1867 also applied to Nos. 1894 and 2191.

Page 54

5.66 For station No. 2834, A1A changed to J3E.

5.67 The delegate of Algeria said that the information in column 6 for No. 2412 and in all other assignments to the Tunisian stations of Tabarka and Gabes corresponded to locations in Algerian territory.

5.68 The Chairman of Planning Group 5B agreed, but said he could do nothing if coordinates were supplied incorrectly.

5.69 The Chairman of Planning Group 5B said that the geographical coordinates of Tunis Tabarka Radio station operating on frequency 1 780.40 should be 008E25 36N57.

5.70 The Chairman of Planning Group 5A said that the same applied to Tunisia Tabarka Radio stations, on frequencies 439.00, 440.00 and 525.00 for which the radius should be changed to 400. He also pointed out that in the case of the Tunis Kelibia Radio station, on frequency 514.00, the geographical coordinates should be 11E05 36N50, and the radius changed from 500 to 400; the same correction in the geographical coordinates applied to the Tunis Kelibia Radio station, frequency 524.50, with the radius changed from 298 to 200.

The draft frequency assignment plan, as amended above, was approved.

6. Reading of draft frequency assignment plan for stations in the aeronautical radionavigation service (radiobeacons) (Document 136)

6.1 The Chairman of the IFRB said that, following the earlier decision to limit frequency 416.00 to transmissions with a bandwidth of less than 2 kHz, it would seem appropriate that all transmissions on frequency 416.00 with a bandwidth of 2 kHz should be reduced to 850 Hz.

6.2 The Chairman of Committee 5 reminded delegates that the 415 kHz frequencies, which could not be included in the Plan, had been transferred to the list of non-satisfied requirements in Document 138.

6.3 The delegate of the USSR said that his Administration had included the Smolensk radiobeacon on the 507 kHz frequency but there had been incompatibilities in the first run and the station had been placed in the 415 kHz frequency list. He wondered if some of those radiobeacons could be assigned frequencies if the radius of the service area was reduced by half.

6.4 The Chairman of Planning Group 5B said that if the radius of the Smolensk radiobeacon could be reduced it might be possible to include it in the Plan.

7. Third and last report of Committee 6 to the Plenary Meeting (Document 129)

7.1 The Chairman of Committee 6 introduced Document 129.

7.2 The Chairman said that the date of entry into force of the Agreement would be discussed at the following meeting.

The meeting rose at 2400 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 160-E
4 April 1985
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PLENARY MEETING

MINUTES

OF THE

NINTH PLENARY MEETING

Friday, 15 March 1985, at 1000 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:		Documents
1.	Draft frequency assignment plan for stations in the aeronautical radionavigation service (radiobeacons) (continued)	136
2.	Non-satisfied requirements - maritime mobile service	137
3.	Non-satisfied requirements - aeronautical radionavigation service (radiobeacons)	138
4.	Corrections to the Maritime Mobile Plan	Corr.1, 2, 3 to 135
5.	Date of entry into force of the Agreement	129
6.	Corrections to the Aeronautical Radionavigation Plan (Radiobeacons)	Corr. to 136
7.	Question raised by the delegate of Algeria	

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Draft frequency assignment plan for stations in the aeronautical radionavigation service (radiobeacons) (continued) (Document 136)

1.1 The Chairman called for comments on the draft Plan, page by page.

Pages 1 and 2

1.2 The Chairman of the IFRB said it had been brought to his attention that the standards of ICAO for the 1 020 Hz tone allowed a certain tolerance, so that a nominal tone could be used within a 2 kHz bandwidth. He suggested that A2A emissions on pages 1 and 2 for the frequency 416 should be shown as 2K00A2A, to be consistent with ICAO tolerances and also consistent with the note to Annex 3 to the Agreement.

1.3 The Chairman of Working Group 5A said the Group had had problems with the coordinates of several stations in Ghana and had had to make changes of frequency. One of those was No. 51070 for which the new frequency was 428 kHz.

1.4 The delegate of Yugoslavia pointed out that his Administration wished provisions to be made for the non-satisfied requirement for station No. 50291: it would be possible to reduce the range of that beacon, which was now 25 km.

1.5 The delegate of Tunisia said he had a similar request with respect to No. 50641, for which the range could be reduced to 30 km.

1.6 The Chairman urged delegates not to request any more assignments at the present late stage of the Conference. The Plan was very tightly packed, and there had already been opportunities for administrations to raise problems in the Working Group.

1.7 The Chairman of Working Group 5A noted that No. 50121 should be added on page 2.

Page 7

Add No. 50157.

Page 8

1.8 The delegate of Algeria requested that No. 50535 be replaced by No. 50964.

1.9 The Chairman of the IFRB said that since the change involved only the replacement of one Algerian station by another, it should be possible to comply with it.

Page 13

1.10 The Chairman of Working Group 5A noted that for station No. 50661 the figure in column 9 should be 2K00A2A. A new USSR station, No. 50185, should be inserted after 50161.

Page 15

1.11 After No. 50146, insert No. 50121 (URS RIGA).

Pages 17-18

1.12 The Chairman of the IFRB noted that in column 9 a number of stations had 2K14A2A, which should be replaced by 2K00A2A. On page 18 for the 511.00 kHz band, he suggested that a note be added in column 13 reading "For the class of emission see the footnote contained in Table 4 of Annex 3 to the Agreement."

1.13 The Chairman of Working Group 5A suggested that a better wording would be "For the necessary bandwidth".

Page 19

1.14 The Chairman of the IFRB pointed out that on frequencies 517.00 and 519.00, A2A emissions should be reduced to 520 Hz.

Page 20

For the last four assignments, the designation should be 850HA2A.

1.15 The Chairman of Working Group 5A announced that he was investigating the possibility of assigning some frequencies for beacons with reduced ranges to Qatar, in response to a request made before the meeting.

1.16 The Chairman of Working Group 5B-2, in connection with Tunisia's request, said that after computer calculations he had found it possible to insert a frequency to meet one of Tunisia's non-satisfied requirements.

The Plan in Document 136, was approved.

2. Non-satisfied requirements - maritime mobile service (Document 137)

2.1 The Chairman of Committee 5 suggested that Document 137 be sent by the Secretary-General to Administrations of Region 1 after the Conference to draw their attention to the existence of such non-satisfied requirements, which could then be used as a basis for further work on assignments.

It was so agreed.

2.2 The delegate of France, supported by the delegate of Tunisia, asked whether it was still possible to make amendments to assignments in the Plan, involving only one country, provided the computer showed that they would not cause harmful interference to any other country.

2.3 The Chairman of Working Group 5B-2 said that in his view that was post-Conference work which should be undertaken under the Article 4 procedure.

2.4 The representative of the IFRB said that the conditions prevailing at the end of the VHF Broadcasting Conference had been quite different from those at the present Conference. In the present case, the Plan resulted from a computer program and it could not now be changed unless approved by Plenary. The list of non-satisfied requirements was addressed to administrations for information and could be used for consultation between them but any amendment to the Plan must follow the Article 4 procedure, unless otherwise decided at that meeting.

2.5 After further discussion, the Chairman of the IFRB said that since the French delegate's request concerned only assignments to French stations already appearing in the Plan, the IFRB would make a detailed study of the proposals and if they did not adversely affect other administrations in accordance with the standards adopted by the Conference, those amendments would be made before the Plan was published in its final form.

2.6 At the request of the delegate of Egypt, the Chairman of the IFRB said that four Egyptian requirements (Nos. 2554, 2561, 2564 and 2562) would be added to the list of non-satisfied requirements in Document 137.

2.7 On a proposal by the delegate of Algeria, supported by the delegate of the Netherlands, the Plenary took note of the list of non-satisfied requirements in the maritime mobile service.

3. Non-satisfied requirements - aeronautical radionavigation service (radiobeacons) (Document 138)

3.1 The Chairman of Committee 5, supported by the delegates of Yugoslavia and Greece, said that those assignments which had previously appeared on the frequency 415 kHz now appeared in Document 138 as non-satisfied requirements. Committee 5 requested the Secretariat to add a note in column 13 regarding those assignments which had been coordinated against the Plan and vice versa, to the effect that administrations which wished to coordinate them further after the adoption of the Plan would have to follow the normal procedures before bringing them into use.

3.2 The Chairman of the IFRB said that since the frequency 415 kHz and the assignments on it shown in the list of non-satisfied requirements were not in the Plan, they were covered by Article 12 of the Radio Regulations. In accordance with Radio Regulation 1245, and with the decision taken by the Plenary, the Board would consider those requirements as having been coordinated and they would be indicated to administrations in a separate list to be published by the Board extracted from Document 138.

It was so agreed.

3.3 The Chairman of Working Group 5A-1 read out a number of amendments and corrections to Document 138, which would be published by the Secretary-General in a new document.

Subject to the proviso regarding the document to be published by the IFRB, the Plenary took note of the list of non-satisfied requirements - aeronautical radionavigation service (radiobeacons) (Document 138).

4. Corrections to the Maritime Mobile Plan (Corr.1, 2, 3 to Document 135)

4.1 Corr.1 to Document 135

4.1.1 The Chairman of Working Group 5A said that against station No. 525, the words "MOD Col.9: AlA (?)" should be replaced by "NOC"; against No. 524, the question mark in brackets was to be deleted.

Corr.1 to Document 135, as thus amended, was approved.

4.2 Corr.2 to Document 135

4.2.1 The Chairman of Working Group 5A said that against station No. 943, "SUP" should be replaced by "NOC"; for No. 584, "MOD Col.9: A1A (?)" should be replaced by "NOC"; and for No. 1118, the figure in the last column should read "200".

Corr.2 to Document 135, as thus amended, was approved.

4.3 Corr.3 to Document 135

4.3.1 The Chairman of Working Group 5A said that against station No. 585, the right-hand column should read "NOC" and for station No. 943, "ADD" should be replaced by "SUP".

4.3.2 The Chairman of Working Group 5B said that for station No. 1470, the words "ADD Col.9: 100" should be added in the last column.

The following additional assignment should be included on page 47 of the Plan:

2877 TUN CAPLAN TUN 2 09E50 37N20 50 CO J3E ND 0000 2359

For station No. 2393, under MOD the words "Col.9: 200" should be added.

Corr.3 to Document 135, as amended, was approved.

The draft frequency assignment plan for stations in the maritime mobile service in Region 1 in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz (Document 135 + Corr.1, 2 and 3) was approved at second reading.

5. Date of entry into force of the Agreement (Document 129)

5.1 The delegate of Greece said that it was unrealistic to provide for the entry into force of the Agreement in 1987 in view of the fact that the Final Acts of the WARC Conference due to be held in 1987 would probably not enter into force until 1989. His delegation had made clear its preference for 1995, but was willing to accept 1993 as the earliest acceptable date.

5.2 The delegate of Italy, supporting those views, said that Document 129 did not reflect the discussions in Committee 6 and 1990 was not the compromise date.

5.3 The delegate of Tunisia also supported the delegate of Greece.

5.4 The delegate of France said that he agreed with the delegates of Greece, Italy and Tunisia with regard to the date but his delegation would prefer 1 July 1995. He would subsequently make a statement on the issue.

5.5 The delegate of Norway said that Resolution No. 704 of WARC 1979 had stressed the urgent need for a new Plan and the sooner the Agreement was put into effect the better. There were many outstanding problems the solution of which awaited the implementation of the Plan. He preferred 1987, but was willing to accept 1988.

5.6 The delegate of Denmark said that Resolution No. 38 of WARC 1979 should be respected and he therefore favoured an early date, preferably 1987, but 1988 was acceptable. It was illogical that countries which had put forward a large number of requirements were willing to wait ten years or so. No real arguments had been advanced for delay and there was no need for any costly new equipment.

5.7 The delegate of the United Kingdom urged the Conference to take a global view of the situation. He agreed with the delegate of Norway on the need to keep faith with the 1979 Conference which had categorically stated that the Copenhagen Plan for the 415 - 2 160 kHz band was out of date. A new Plan was therefore urgently needed in that band as well as in the 415 - 526.5 kHz band. It was true that the implementation of the proposed Plan depended to some extent on decisions to be taken at the 1987 Conference, but the urgency of the situation and pressing world needs required an early date. He preferred 1 April 1987.

5.8 The delegate of the Federal Republic of Germany supported an early date: 1987 or 1988.

5.9 The delegate of Spain said that an early implementation of the Plan would create difficulties for his country in the 2 MHz band in view of the size of the Spanish merchant fleet and the need to put new equipment into service. He therefore proposed 1993.

5.10 The delegate of the German Democratic Republic said that the date should not be too early in view of the need to convert the equipment of ship stations. He suggested 1 April 1992.

5.11 The delegate of the Netherlands said that the new frequency assignment plan was urgently needed; therefore he suggested 1987 or 1988 at the latest. There were no financial, technical or economic considerations to justify any delay.

5.12 The delegate of Sweden could not see why an early date could not be adopted. No costly new equipment was needed for ship stations which could continue to use the existing international working frequencies. Therefore he strongly supported the proposal of the delegate of Norway.

5.13 The delegate of Togo supported the delegate of France.

5.14 The delegates of Cyprus, Albania and Algeria preferred 1993.

5.15 The delegate of Yugoslavia said that it would be too costly for many countries to change equipment so quickly. He therefore suggested April 1992 as a compromise.

5.16 That proposal was supported by the delegates of Turkey and of Cameroon.

5.17 The delegate of Ghana said that the choice of 1987 presupposed that the 1987 Conference would not run into any difficulties. He therefore preferred 1 April 1990 in order to give administrations enough time to install the necessary new equipment.

5.18 The delegate of Greece agreed that some areas had substantial requirements but he would like some reply to his statement that it was impossible to implement the Plan as early as 1987 or 1988. He reminded the Conference that Resolution No. COM 6/1 and its Annex (Document 151) provided that the administrations with the most urgent needs should consult one another and approach the IFRB for extra assignments. He also referred to Recommendation No. COM 6/1 (Document 151) and its effects on the implementation of the Plan.

5.19 The delegate of the Netherlands agreed that there was a link between the date of entry into force of the Plan and the 1987 Conference. However, that Conference was free to decide on any date for the entry into force of its decisions. Furthermore, the implementation of Resolutions Nos. COM 6/3 and COM 6/4 would be more difficult with a late date of entry.

5.20 The delegate of Greece recalled that the purpose of the Conference was to help administrations to serve the needs of maritime communications, and that would not be done by imposing new and costly technology. Furthermore, if the date of entry into force of the Plan were delayed, administrations might find that they did not actually need to use all the assignments they had requested, and such an easing of the situation would be of enormous help during the early phases of implementation.

5.21 The delegate of the United Kingdom agreed with the delegate of the Netherlands that the 1987 Conference did not constitute any obstacle at all to the implementation of the Plan. He felt that the practical difficulties alleged to preclude early implementation of the Plan were exaggerated.

5.22 The Chairman said that a point overlooked during the discussion was one he had made when opening the Conference, namely, that there should be no strong feelings in favour of a very early or very late date of entry into force, since the bands in question were not the only ones available for the maritime mobile community. Accordingly, maritime communications would not be disrupted by prompt implementation of the Plan and would not be much impeded if that implementation was delayed; on the other hand, it was hard to see any purpose in the present Conference if its decisions were not to be carried out for ten years. Some time would certainly be required for the administrative procedures of clearing the bands, and a date prior to WARC MOB-87 would obviously be impracticable, but it should be borne in mind that some of the decisions of that Conference could probably be implemented quite quickly.

In the light of those considerations, he proposed a compromise date of 1 July 1991, or perhaps 1 September 1991. If that proved unacceptable, the meeting would have no option but to vote on the issue, which would be most undesirable.

5.23 The delegate of Norway said that his delegation could not accept the proposed date as a compromise.

5.24 The delegate of France said he was surprised that the proposed compromise date was prior to 1992, which was the median between the extremes of 1987 and 1995. He could not accept the Chairman's proposal.

5.25 The Chairman said that, in view of those objections, he would be obliged to put the issue to the vote.

5.26 The delegate of Algeria suggested that the number of proposals to be voted on might be reduced if the delegations advocating dates between 1993 and 1995 could agree on the date of 1 April 1992 put forward by the German Democratic Republic.

5.27 The delegates of Tunisia, Italy, Togo, Albania, Cyprus, France, Spain and Greece said that they could accept that suggestion to facilitate the Chairman's task, although they could have preferred a later date.

5.28 At the suggestion of the delegate of the United Kingdom, the Chairman asked whether the delegations which were in favour of early implementation could agree to the date of 1 April 1990 proposed by Ghana.

5.29 The delegates of Sweden, the Federal Republic of Germany, Denmark, the United Kingdom, Ghana and the Netherlands said that they could reluctantly accept that date.

5.30 The delegate of Norway said he could only abstain from commenting on that proposal.

5.31 The delegate of the Netherlands moved that the vote should be held by secret ballot. The delegates of Denmark, Norway, the United Kingdom and the Federal Republic of Germany supported that motion.

5.32 The Chairman invited the delegates of Norway, France and Algeria to act as tellers.

5.33 The Chairman then invited the meeting to vote on the proposed date of entry into force of the Agreement of 1 April 1992.

The results of the vote were as follows:

Number of votes cast: 43

In favour : 30

Against : 12

Abstentions : 1

The proposal that the Agreement should enter into force on 1 April 1992 was thus adopted and the Chairman said that he would therefore not put to the vote the second proposal before the meeting.

6. Corrections to the Aeronautical Radionavigation Plan (Radiobeacons) (Corrigendum to Document 136)

6.1 The Chairman of Working Group 5A read out corrections to the document, as follows:

Page (Doc. 136)	Adm.	IFRB Serial No.	Frequency	MOD/SUP/ADD
1	QAT	50627 50900	416.00	MOD Col.7: 200
2	URS	50122	417.00	ADD Col.7: 80
		(ADD between page 3 YUG and page 7 URS)		
4	TUN	50641	419.00	ADD Col.7: 30
8	ALG	50504	423.00	ADD Col.7: 300

Page (Doc. 136)	Adm.	IFRB Serial No.	Frequency	MOD/SUP/ADD
11	QAT	50626 50899	422.00	MOD Col.7: 100
13	URS	50185	428.00	ADD Col.7: 80
15	URS	50121 (MOD)	431.00	ADD Col.7: 30

With those corrections, the Aeronautical Radionavigation Plan (Radiobeacons) was approved on second reading.

7. Question raised by the delegate of Algeria

7.1 The delegate of Algeria noted that when an assignment to the maritime mobile service with F1B protection was notified for Morse telegraphy use, it clearly received F1B protection only, and he asked whether A1A or F1B type of modulation would be entered against that assignment in the List of Coast Stations.

7.2 The representative of the IFRB replied that, in the case of an assignment in the Plan using A1A class of emission, that symbol was entered in the Master Register, on which the List of Coast Stations was aligned. It should be noted that assignments in the Plan which were not in use could not be included in the List of Coast Stations.

7.3 The Secretary-General added that the General Secretariat checked the List of Coast Stations against the Master Register and brought any discrepancies found to the attention of the administrations concerned.

The meeting rose at 1420 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 161-E
15 April 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

TENTH PLENARY MEETING

Friday, 15 March 1985, at 1835 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subject discussed:	Document
1. Noting of Declarations concerning the Final Acts	145

For reasons of economy, this document is printed in a limited number of copies. Participants are therefore kindly asked to bring their copies to the meeting since no others can be made available.

1. Noting of Declarations concerning the Final Acts

1.1 The Secretary-General explained that the Declarations contained in Document 145 would form a part of the Final Protocol.

The Declarations were noted.

The meeting rose at 1840 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 162-E
15 April 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

ELEVENTH PLENARY MEETING

Friday, 15 March 1985, at 2240 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subject discussed:	Document
1. Noting of Additional Declarations concerning the Final Acts	155

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1. Noting of Additional Declarations concerning the Final Acts (Document 155)

Attention having been drawn to a typographical error in Declaration No. 19 in which "the Government of Algiers", should read "the Government of Algeria", the Additional Declarations contained in Document 155 were noted.

The meeting rose at 2245 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Corrigendum 1 to
Document 163-E
20 May 1985

MINUTES

OF THE

TWELFTH AND LAST PLENARY MEETING

Friday, 15 March 1985, at 2245 hrs

Chairman: Mr. T. HAHKIO (Finland)

Replace para. 2.3 by the following :

"2.3 The delegate of Sweden wholeheartedly supported the previous speaker's comments. The holding of two Conferences in parallel, an unprecedented step for the ITU, had at times caused some confusion; the Chairman's capable and effective guidance of the work, spiced with a sense of humour, had therefore been greatly appreciated. Congratulations were due not only to the Chairman but also to the staff of the General Secretariat and the IFRB responsible for organization of the work of the Conference. It had been a great pleasure for the Swedish delegation to work with the staff of the computer department; they had, in particular, received a high degree of cooperation from the systems engineer, Mr. Lundborg. That excellent working relationship had enabled the work of the Planning Groups to be completed within the very short time span of the Conference. His delegation's thanks also went to those delegations that had taken an active part in the work of the Planning Groups, the Danish delegation deserving special mention in that respect."

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REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

Document 163-E
15 April 1985
Original: English

PLENARY MEETING

MINUTES

OF THE

TWELFTH AND LAST PLENARY MEETING

Friday, 15 March 1985, at 2245 hrs

Chairman: Mr. T. HAHKIO (Finland)

Subjects discussed:

1. Signature of the Final Acts

2. Closure of the Conference

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1. Signature of the Final Acts

1.1 The Secretary-General explained the procedure for signature of the Final Acts. The Executive Secretary then called the roll of those delegations whose credentials had been found in order.

The Final Acts and Final Protocol were signed by the 49 countries listed in Annex 1.

2. Closure of the Conference

2.1 The Secretary-General made the statement contained in Annex 2.

2.2 The delegate of the USSR said the Conference had been one which had experienced moments of great tension; the pressure had been particularly heavy on the Secretary-General, who had overall responsibility for the organization of the Conference and was sensitive to his responsibilities, and on the Chairman, who had been responsible for guiding its work. The Chairman, in addition to deserving congratulations for his courage and stamina in supporting the very heavy work-load the Conference had placed on him, was to be commended for the adroitness with which he had handled a number of knotty problems, thus paving the way for a general consensus, exemplified by the fact that all delegations attending the Conference, without exception, had signed the Final Acts and Final Protocol. Thanks should also be expressed to the two Vice-Chairmen of the Conference for the able assistance they had rendered the Chairman.

The Conference had accomplished work of great importance for the safety of life at sea and the maintenance of peace in the region. The Secretary-General and all the staff of the Union were to be congratulated for the efficient way they had organized the Conference, thus paving the way for its success.

2.3 The delegate of Sweden wholeheartedly supported the previous speaker's comments. The holding of two Conferences in parallel, an unprecedented step for the ITU, had at times caused some confusion; the Chairman's capable and effective guidance of the work, spiced with a sense of humour, had therefore been greatly appreciated. Congratulations were due not only to the Chairman but also to the staff of the General Secretariat and the IFRB responsible for organization of the work of the Conference. It had been a great pleasure for the Swedish delegation to work with the staff of the computer department; they had, in particular, received a high degree of cooperation from the systems engineer, Mr. Labory. That excellent working relationship had enabled the work of the Planning Groups to be completed within the very short time span of the Conference. His delegation's thanks also went to those delegations that had taken an active part in the work of the Planning Groups, the Danish delegation deserving special mention in that respect.

2.4 The delegate of Algeria joined in the congratulations addressed to the Chairman by the previous speakers, thus adding the voice of a delegation from Africa to those of the Chairman's neighbour countries. The Chairman's country was already well known to his own, though geographically so far distant from it, through the excellence of the work its delegations accomplished at meetings of the Union. The Chairman was to be sincerely commended for the outstanding way he had, with exemplary modesty masked by an assumed sternness of demeanour, conducted the proceedings of the two Conferences.

2.5 The delegate of Tunisia expressed his sincere thanks to the Secretary-General, the Members of the IFRB and all the staff of the Union who had done everything possible to facilitate the work of the Conference. He thanked also the delegations of Norway and Sweden for their valuable contributions to both Conferences.

Delegates had witnessed, possibly for the first time in the history of the Union, an occasion on which administrations had taken over the responsibilities of the technical secretariat of the IFRB in the planning exercise. He had no intention of questioning the decisions of the Conference nor the integrity of the delegates who had formed the Planning Groups. However, there was a point of principle involved which could call into question the very basis of the Union. It would seem to him that only Members of the IFRB, custodians of an international public trust, were in a position to perform that task impartially.

The Tunisian delegation therefore appealed to the Administrative Council and to the Secretary-General of the Union to ensure that in future the Board was given every possible assistance in obtaining the necessary software sufficiently in advance to enable it to do the calculations and analyses and save the Conference a good deal of time.

The delegate of Tunisia particularly wished to thank the Chairmen of Committees 4 and 5, the Chairmen of the Planning Groups and the Dean of the Conference for the part they had played as well as all the delegates and staff who had participated in the work of the Conference.

Lastly, he expressed his gratitude and thanks to the Chairman of the Conference for his tireless efforts towards the success of both Conferences.

2.6 The Chairman thanked the speakers for their overwhelming expressions of kindness. He thanked in particular the Dean of the Conference and his Vice-Chairmen for their constant support and reassurance, the Committee Chairmen and Vice-Chairmen for all their work, and the Planning Group Chairmen, the Secretary-General, the IFRB and all the staff of the Union for their positive and constructive approach.

For the first time in the history of the Union the Conference had done its own planning with the aid of a synthesis programme, thanks largely to the Swedish Administration. For the first time, too, a sub-band in the 2 MHz band had been planned for the maritime mobile service. Those achievements, together with the spirit of cooperation that had prevailed throughout had, despite the number of unsatisified requirements, made the Conference a memorable one.

The meeting rose at 2340 hours.

The Secretary-General: The Chairman:

R.E. BUTLER T. HAHKIO

Annexes: 2

ANNEX 1

The following delegations signed the Final Acts and Final Protocol:

People's Democratic Republic of Algeria, Federal Republic of Germany, People's Republic of Angola, Kingdom of Saudi Arabia, Austria, State of Bahrain, Belgium, People's Republic of Benin, People's Republic of Bulgaria, Republic of Cameroon, Republic of Cyprus, Republic of the Ivory Coast, Denmark, Arab Republic of Egypt, Spain, Finland, France, Ghana, Greece, Republic of Guinea, Hungarian People's Republic, Republic of Iraq, Ireland, State of Israel, Italy, Republic of Kenya, State of Kuwait, Socialist People's Libyan Arab Jamahiriya, Democratic Republic of Madagascar, Republic of Malta, Kingdom of Morocco, Monaco, Norway, Sultanate of Oman, Kingdom of the Netherlands, People's Republic of Poland, Portugal, State of Qatar, German Democratic Republic, Socialist Republic of Romania, United Kingdom of Great Britain and Northern Ireland, Sweden, Confederation of Switzerland, Republic of Chad, Czechoslovak Socialist Republic, Tunisia, Turkey, Union of Soviet Socialist Republics, Socialist Federal Republic of Yugoslavia.

ANNEX 2

Mr. Chairman,
Ladies and Gentlemen,

49 Countries have signed the Final Acts of the Conference.

It is always gratifying to come to the end of a Conference with a sense of achievement, realising that the objectives (with some understandable difficulties which I hope will be worked out in subsequent operational negotiation within particular zones before the coming into force of the Final Acts of the Conference) have been attained and that the traditional competence and good will, to which I made reference in my opening address, have prevailed in the ITU.

The importance of your work cannot be doubted. Radiocommunications is the only means of ensuring adequate contact between the shore and ships at sea and the provision of interference free telecommunication channels is a vital element in ensuring the safety of life at sea. Furthermore the safety of ships and aircraft is dependent upon accurate navigation and the requirement for well planned radiobeacon systems is of vital importance to both the maritime and aeronautical committees and users of their services.

I do not need to remind you that the promotion and adoption of measures for ensuring the safety of life through the cooperation of telecommunication services is listed as one of the basic purposes of the Union in Article 4 of the Convention. The work you have accomplished during these two conferences constitutes an outstanding example of cooperation to this end between telecommunication administrations.

I believe Mr. Chairman that you have presided over a unique event. The holding of two planning conferences in parallel, the Regional Administrative Radio Conference for the Maritime Mobile Service and the Aeronautical Radionavigation Service in certain Parts of the MF Band in Region 1, (Geneva, 1985) and the Regional Administrative Radio Conference for the Planning of Frequencies for Maritime Radiobeacons in the European Maritime Area, (Geneva, 1985) both of which have produced regional agreements, is unprecedented .

The task has been complicated by the very limited duration of both Conferences.

Geneva,
15.3.85

As you have heard from the Chairman of Committee 3 the untiring efforts in making optimum use of both the limited time and resources provided to you have resulted in significant financial savings in the Conference budgets. It is anticipated that these savings will enable the Union to finance the important and immediate consequential activities arising out of the Conferences without the need to recourse for additional budgetary provisions.

However, it is apparent that these economies have been achieved only at the cost of considerable inconvenience to delegates in participating in the work of the Conferences. Many of you have had to spend long hours in different, although similar discussions and negotiations and much of this time outside normal working hours. It goes without saying that the input and response of the secretariat and the planning of the allocation of conference facilities and support services have also been unduly complex as a result of servicing two parallel conferences.

Whilst we have every reason to be gratified at the successful completion of the Conferences the possibility of attempting to organise two Conferences in parallel in the future should only be considered after careful examination in the light of our recent experiences.

Mr. Chairman,

The timely completion of the work could only have been achieved with the unremitting efforts and understanding of all parties. However, all of this effort required the special focus which you have provided in order to arrive at a successful conclusion. Your command of the subject and the friendly manner in which you have presided over the deliberations are excelled only by your modesty and unassuming sense of humour.

Once more, my sincere congratulations and on behalf of all - Members and the ITU staff - I thank you for your guidance and direction.

INTERNATIONAL TELECOMMUNICATION UNION

RARC FOR THE PLANNING OF FREQUENCIES FOR MARITIME RADIOBEACONS IN THE EUROPEAN MARITIME AREA

GENEVA, MARCH 1985

EUROP.

Document 1086-E
8 May 1985
Original: French

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION

RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1

GENEVA, FEBRUARY/MARCH 1985

Document 164-E
8 May 1985
Original: French

COMMITTEE 3

SUMMARY RECORD

OF THE

THIRD MEETING OF COMMITTEE 3 OF RARC MM-R1

AND

SECOND MEETING OF COMMITTEE 3 OF RARC EMA

Tuesday, 12 March 1985, at 1615 hrs

Co-Chairmen: Mr. S.S. AL-BASHEER (Saudi Arabia) (MM-R1)
Mr. P. CAREY (Ireland) (EMA)

Subjects discussed:		Documents
1.	Summary record of the second meeting of Committee 3 of RARC MM-R1 and of the first meeting of Committee 3 of RARC EMA	97, 1046
2.	Position of accounts of the two Conferences	106, 1047
3.	Draft report of Committee 3 to the Plenary Meetings of RARC MM-R1 and RARC EMA	107, 1049
4.	Other business	

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1. Summary record of the second meeting of Committee 3 of RARC MM-R1 and of the first meeting of Committee 3 of RARC EMA (Document 97/1046)

1.1 Document 97/1046 was adopted without comment.

2. Position of accounts of the two Conferences (Document 106/1047)

2.1 The Secretary presented Document 106/1047 setting out the position of accounts of the two Conferences at 8 March 1985. The position showed a margin of about 12%.

2.2 The Chairman noted with satisfaction the savings made in the Conference accounts.

2.3 The Committee noted Document 106/1047.

3. Draft report of Committee 3 to the Plenary Meetings of RARC MM-R1 and RARC EMA (Document 107/1049)

3.1 The Secretary drew attention to Document DT/1011 which stated that Document 107/1049 was a draft report which would be revised before being approved by the Plenary Meetings of the two Conferences.

3.2 The Secretary then introduced the document in question. He quoted the figures that would have to be added to the document and gave the following clarifications.

3.3 Section 2 - second paragraph - the budget had been adjusted to read "138,000 Swiss francs".

3.4 Section 4 - final paragraph - total expenditure had been estimated at "1,888,500 Swiss francs", thus leaving a margin of "242,500 Swiss francs".

3.5 Section 5 - the IALA had decided to participate in the work of the Conference in the half-unit class (see Annex 2).

3.6 Section 6 - fourth paragraph - total expenditure was estimated at "1,888,500 Swiss francs", the amount of the contributory units being estimated at:

RARC MM-R1 "5,250 Swiss francs",
RARC EMA "2,975 Swiss francs".

3.7 Section 7 - to be completed as soon as further information became available. With the exception of a memorandum from the Director of the CCIR, no document had been forthcoming. The Secretary proposed that the memorandum be included in the report to the Plenary Meeting.

3.8 The Chairman thanked the Secretary for his clarifications concerning the draft report. The report would be published in revised form with the figures given by the Secretary, and the memorandum from the Director of the CCIR would be annexed to it.

3.9 The Chairman of the IFRB said it was difficult at the present stage to estimate what work the IFRB would have to perform after the Conference since certain decisions had yet to be taken. For the work to be done immediately after the Conference, however, the IFRB would need one P.4 and one G.4 for a period of one year. That should be regarded as a provisional estimate and the IFRB would be submitting a detailed report to the Administrative Council.

3.10 The Secretary pointed out that since the summary records of the Budget Control Committee were not transmitted to the Administrative Council, the IFRB would have to submit its comments to the Plenary Meeting.

3.11 The Chairman of the IFRB assented and said that the request would be submitted in a note which could be attached to the report.

3.12 The Chairman agreed to that procedure: the report to the Plenary Meetings would therefore be supplemented by the two annexes from the CCIR and the IFRB.

3.13 The Chairman thanked the Co-Chairman, Mr. Carey, the delegations present and the representatives of the General Secretariat, the IFRB and the CCIR for their collaboration.

The meeting rose at 1630 hours.

The Secretary:

R. PRELAZ

The Chairmen:

S.S. AL-BASHEER (RARC MM-R1)
P. CAREY (RARC EMA)

RÉGION 1

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
CARR POUR LE SERVICE MOBILE MARITIME ET LE SERVICE DE RADIONAVIGATION AÉRONAUTIQUE DANS CERTAINES PARTIES DE LA BANDE DES ONDES HECTOMÉTRIQUES DANS LA RÉGION 1
GENÈVE, FÉVRIER/MARS 1985

Document 165-F/E/S
1er avril 1985

LISTE DES PARTICIPANTS - LIST OF PARTICIPANTS - LISTA DE PARTICIPANTES

Cette liste comprend les sections suivantes — This list includes the following sections — Esta lista comprende las secciones siguientes

I Membres de la région 1 — Members of Region 1 — Miembros de la Región 1

II Autres Membres — Other Members — Otros Miembros

III Exploitations privées reconnues — Recognized private operating agencies — Empresas privadas de explotación reconocidas

IV Organisations internationales — International Organizations — Organizaciones Internacionales

IV.1 Nations Unies — United Nations — Naciones Unidas

IV.2 Institutions spécialisées — Specialized Agencies — Instituciones especializadas

IV.3 Organisations régionales (Art. 32 de la Convention) — Regional Organizations (Art. 32 of the Convention) — Organizaciones regionales (Art. 32 del Convenio)

IV.4 Autres Organisations — Other Organizations — Otras Organizaciones

V Siège de l'Union — Headquarters of the Union — Sede de la Unión

VI Secrétariat de la Conférence — Secretariat of the Conference — Secretaría de la Conferencia

***

Symboles utilisés — Symbols used — Símbolos utilizados

C : Chef de délégation — Head of delegation — Jefe de delegación
CA : Chef adjoint — Deputy Head — Subjefe
D : Délégué — Delegate — Delegado
A : Conseiller — Adviser — Asesor

***

I - MEMBRES DE LA REGION 1 - MEMBERS OF REGION 1 - MIEMBROS DE LA REGIÓN 1

ALB Albanie (République populaire socialiste d') - Albania (Socialist People's Republic of) - Albania (República Popular Socialista de)

C M. GJERGJI Maksim
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General Direction of Posts
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Specialist
General Direction of Posts
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Tirana

D M. PALUSHI Garip
Ingénieur
Direction générale des postes
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Tirana

D M. ZUNA Perparim
Engineer, Air Services
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ALG Algérie (République algérienne démocratique et populaire) - Algeria (People's Democratic Republic of) - Argelia (República Argelina Democrática y Popular)

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Ministère des postes et
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D M. ALLEK Belaid
Ministère des postes et
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Alger

D M. BENACER Tahar
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Ministère des postes et
télécommunications
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D M. BENGUIDA Chérif
Ministère des Travaux Publics
Service de la Signalisation Maritime
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D Mlle KHENCHELOUI Houria
Ministère des postes et
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D M. SAIS Mohamed
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D Allemagne (République fédérale d') - Germany (Federal Republic of) - Alemania (República Federal de)

C M. WIEFELSPÜTZ Friedrich G.
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CA M. GEORGE Eberhard
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D **Allemagne (République fédérale d') - Germany (Federal Republic of) - Alemania (República Federal de)** (suite)

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Fernmeldeamtmann
Fernmeldetechnisches Zentralamt
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D M. HECKMANN Günter
Leitender Polizeidirektor
Bundesministerium des Innern
Bonn

D M. MAIER Karl
Postdirektor
Fernmeldetechnisches Zentralamt
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D M. MALINA Klaus B.
Fernmeldeamtsrat
Oberpostdirektion
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D M. NAGEL Peter
Bauoberrat
Bundesministerium für Verkehr
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D M. SCHENKE Rudolf
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Bundesministerium für das Post- und Fernmeldewesen
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D M. SCHLEGEL Robert Johann
Fregattenkapitän
Bundesministerium der Verteidigung
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Deutsches Hydrographisches Institut
Hamburg

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Bundesministerium für das Post- und Fernmeldewesen
Bonn

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Legationsrat
Ständige Vertretung der Bundesrepublik Deutschland bei den internationalen Organisationen
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ISR Israël (Etat d') - Israel (State of) - Israel (Estado de)

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télécommunications
Beyrouth

LBY Libye (Jamahiriya arabe libyenne populaire et socialiste) - Libya (Socialist People's Libyan Arab Jamahiriya) - Libia (Jamahiriya Árabe Libia Popular y Socialista)

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LBY **Libye (Jamahiriya arabe libyenne populaire et socialiste) - Libya (Socialist People's Libyan Arab Jamahiriya) - Libia (Jamahiriya Árabe Libia Popular y Socialista)** (suite)

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Administration of Ports and Lights
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Chief of Communication Section
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First Secretary
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D M. HENSHIRI Frag Omar
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D M. NEGHITA Ramadan
Directorate of Exchanges
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MDG **Madagascar (République démocratique de) - Madagascar (Democratic Republic of) - Madagascar (República Democrática de)**

C Mme RAHARISOA Tiana
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Antananarivo

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IV.4 AUTRES ORGANISATIONS - OTHER ORGANIZATIONS - OTRAS ORGANIZACIONES

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Commission 6 : M. J. Balfroid, assisté de
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INTERNATIONAL TELECOMMUNICATION UNION
REGION 1 **RARC FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1**
GENEVA, FEBRUARY/MARCH 1985

Document 166-E
24 May 1985

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No.	Origin	Title	Destination
31	SG	Software for RARC-MM-R1 and RARC-EMA	-
32	YUG	Proposals	C.5, C.6
33	SG	Structure of the Conference	-
34	SG	Allocation of documents	-
35	SG	Information paper - General schedule of the work of the Conference	-
36	S	Reductions in requirements and present assignments	C.5
37	PL	Conference chairmanship	-
38	SG	Secretariat of the Conference	-
39	PL	Minutes of the 1st Plenary Meeting	PL
40	C.6	Summary Record of the 1st meeting of Committee 6	C.6
41	D	Proposals	C.4
42	E	Antenna efficiency	C.4
43	KEN	Proposals	C.5
44	F	Radiated power in coast stations	C.4
45	C.4	Summary Record of the 1st meeting of Committee 4	C.4
46	C.2	Summary Record of the 1st meeting of Committee 2	C.2
47	C.5	Summary Record of the 1st meeting of Committee 5	C.5
48	C.6	Note from the Chairman of Committee 6 to the Chairman of Committee 4	C.4
49	WG/2A	First Report of Working Group 2A to Committee 2	C.2
50	SG	List of documents	-

No.	Origin	Title	Destination
51	C.5	Summary record of the second meeting of Committee 5	C.5
52	ad hoc C.5-1	Report by Chairman of ad hoc Group 5-1 to Committee 5	C.5
53	C.6	Workings Groups set up by Committee 6	C.6
54	C.4	Summary record of the second meeting of Committee 4	C.4
55	C.5	Summary record of the third meeting of Committee 5	C.5
56	C.6	Summary record of the second meeting of Committee 6	C.6
57	C.4	Summary record of the third meeting of Committee 4	C.4
58(Rev.1)	C.3	Note by the chairman of Committee 3	C.4, 5 and 6
59 +Corr.1	C.4	Summary record of the fourth meeting of Committee 4	C.4
60	C.4	First note from C.4 to C.5	C.5
61	C.4	Second note from C.4 to C.5	C.5
62	C.4	Third note from C.4 to C.5	C.5
63	C.5	Note by chairman of Committee 5	C.5
64	S.G.	Transmission of a Resolution adopted by Permanenet Technical Committee of CITEL	-
65	C.4	First note from C.4 to C.6	C.6
66	C.3	Summary record of the first meeting of Committee 3	C.3
67 +Corr.1	C.4	Summary record of the fifth meeting of Committee 4	C.4
68 +Corr.1	C.4	Summary record of the sixth meeting of Committee 4	C.4

No.	Origin	Title	Destination
69 +Corr.1	C.4	Summary record of the seventh and last meeting of Committee 4	C.4
70	C.5	First report by the chairman of Committee 5	PL
71	S.G.	Position of the conference accounts at 28 February 1985	C.3
72	F	Propositions	C.6
73	C.5	Summary record of the fourth meeting of Committee 5	C.5
74	S.G.	Statement of expenses incurred for the preparatory work by the IFRB for RARC-MM-R1 and RARC-EMA	C.3
75	WG 5B	First report from Working Group 5B	C.5
76	WG 6B	Report of the chairman of Working Group 6B	C.6
77	WG 6A	First report of Working Group 6A	C.6
78	C.6	Summary record of the third meeting of Committee 6	C.6
79	WG 2A	Second report of the Working Group 2A	C.2
80	C.5	Note from chairman of C.5 to Committee 4 and 6	C.4 and 6
81	PL	Minutes of the 2nd Plenary Meeting	PL
82	ad hoc C.6	Report of the ad hoc Group of Committee 6	C.6
83	C.5	Note by the Chairman of Committee 5	C.6
84	C.5	Note from Chairman of Committee 5	C.6
85	C.5	Note by Chairman of Committee 5	C.5
86	C.7	Summary Record of the first meetings of the Editorial Committee (MM & EMA)	C.7

No.	Origin	Title	Destination
87	C.5	Note by the Chairman of Committee 5 - Information included in the columns of the Plans	C.5
88	C.4	Note from Committee 4	C.5, C.6
89	C.4	4th note from C.4 to C.5	C.5
90	WG 6A	2nd report fo Working Group 6A	C.6
91	WG 6A	Note from the Chairmain of Working Group 6A	C.6
92	ad hoc C.5-4	Report of the ad hoc Group 4 of Committee 5	C.5
93	C.4	Summary Record of the eighth meeting of Committee 4	C.4
94	C.5	Summary Record of the fifth meeting of Committee 5	C.5
95	C.6	Note by the Chairman of Committee 6	C.6
96	ad hoc WG 6A	Report of the ad hoc Group of Working Group 6A	C.6
97	C.3	Summary Record of the second meeting	C.3
98	C.6	Note by the Chairman of Committee 6	C.6
99	ad hoc C.5-3	Report of the Chairman of ad hoc Group 5-3	C.5
100	SG	List of documents	-
101	-	Draft Frequency Assignment Plan for stations in the Maritime Mobile Service in Region 1	C.5
102	-	Draft Frequency Assignment Plan for stations in the Aeronautical Radio-navigation Service (Radiobeacons) in Region 1	C.5

No.	Origin	Title	Destination
103(Rev.1)	GRC	Greece - Proposals	C.4
104	C.6	First series of texts submitted to the Editorial Committee	C.7
105 +Corr.1	C.7	B.1	PL
106	SG	Position of the Conference accounts at 8 March 1985	C.3
107(Rev.1)	C.3	Report of the Budget Control Committee to the Plenary Meeting of the two Conferences	PL
108 + Corr.1	C.5	Summary Record of the sixth meeting	C.5
109	C.5	Note from Chairman of Committee 5 to Committee 6	C.6
110 +Corr.1 & 2	C.2	Report of Committee 2 to the Plenary Meeting	PL
111 +Corr.1 & 2	C.5	First series of texts submitted to the Editorial Committee	C.7
112	C.6	Second series of texts submitted to the Editorial Committee	C.7
113	C.2	Summary Record of the second and last meeting	C.2
114	C.6	Note from Chairman of Committee 6 to the Plenary Meeting	PL
115	C.6	Note from Chairman of Committee 6 to the Editorial Committee	C.7
116	ad hoc Group 3	Report of the Chairman of ad hoc Group 3 to Committee 5	C.5
117	ad hoc Group 4	Report of the Chairman of ad hoc Group 4 to Committee 5	C.5
118	C.6	Second Report of Committee 6 to PL	PL
119	C.6	Third series of texts submitted to the Editorial Committee	C.7

No.	Origin	Title	Destination
120	C.7	B.2	PL
121	-	List of non-satisfied requirements Maritime Mobile Service in Region 1	C.5
122	-	List of non-satisfied requirements Aeronautical Radionavigation Service (Radiobeacons)	C.5
123	ad hoc Group	Report of the Ad hoc Group of Committee 6	C.6
124 + Add.1	C.7	B.3	PL
125 + Corr.1	C.6	Summary Record of the fourth meeting	C.6
126	C.6	Summary Record of the fifth meeting	C.6
127	C.7	B.4	PL
128	C.6	Fourth series of texts submitted to the Editorial Committee	C.7
129	C.6	Third and last report to PL	PL
130	C.6	Note from the Chairman of C.6 to the Editorial Committee	C.7
131	C.5	Second and last series of texts submitted to the Editorial Committee	C.7
132	C.5	Second report to PL	PL
133	PL	Minutes of the third plenary meeting	PL
134	C.5	Summary Record of the seventh meeting	C.5
135 + Corr.1,2,3	-	Draft frequency assignment plan for stations in the Maritime Mobile Service in Region 1	PL
136 + Corr.1	-	Draft frequency assignment plan for stations in the Aeronautical Service (Radiobeacons) in Region 1	PL

No.	Origin	Title	Destination
137	-	List of non-satisfied requirements (Maritime Mobile Service in Region 1)	PL
138	-	List of non-satisfied requirements Aeronautical Radionavigation Service (Radiobeacons) in Region 1	PL
139	C.6	Summary Record of the sixth meeting	C.6
140	ad hoc Group of C.6	First series of texts submitted to the Editorial Committee	C.7
141	SG	Information note by Canada	-
142	C.7	B.5	PL
143	SG	Final days of the Conference	-
144	C.6	Summary Record of the seventh and last meeting	C.6
145	-	Final Protocol	PL
146	C.7	B.6	PL
147	C.5	Summary Record of the eighth and last meeting	C.5
148	C.7	R.1	PL
149	C.7	R.2	PL
150	SG	List of documents	-
151	C.7	R.3	PL
152	C.7	R.4	PL
153	C.7	R.5	PL
154	PL	Minutes of the fourth Plenary Meeting	PL
155	-	Additional Declarations	PL

No.	Origin	Title	Destination
156	PL	Minutes of the fifth Plenary Meeting	PL
157	PL	Minutes of the sixth Plenary Meeting	PL
158	PL	Minutes of the seventh Plenary Meeting	PL
159	PL	Minutes of the eighth Plenary Meeting	PL
160	PL	Minutes of the ninth Plenary Meeting	PL
161	PL	Minutes of the tenth Plenary Meeting	PL
162	PL	Minutes of the eleventh Plenary Meeting	PL
163 + Corr.1	PL	Minutes of the twelfth and last Plenary Meeting	PL
164	C.3	Summary Record of the third and last meeting	C.3
165	SG	List of participants	-
166	SG	List of documents	-