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Documents of the World Administrative Radio Conference for the mobile services (2nd session) (WARC MOB-87 (2)) (Geneva, 1987)

To reduce download time, the ITU Library and Archives Service has divided the conference documents into sections.

- This PDF includes Document DT No. 1-82
- The complete set of conference documents includes Document No. 1-487, DL No. 1-76, DT No. 1-82

NOB-87 UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS CAMR POUR LES SERVICES MOBILES GENÈVE, septembre-octobre 1987

Addendum 1 au ٧ Document DT/1A-FES 11 septembre 1987

Note du Secrétaire général

PROPOSITIONS COORDONNEES

Veuillez trouver, ci-joint, la liste des propositions qui sont parvenues au Secrétariat général depuis la date de publication du DT/IA; ces propositions sont contenues dans les documents 74 à 92

Note by the Secretary-General

COORDINATED PROPOSALS

Please find attached the list of the proposals received by the General Secretariat since the publication of DT/1A. These proposals are contained in Docs. 74 to 92.

Nota del Secretario General

PROPOSICIONES COORDINADAS

Sírvase encontrar adjunta la lista de las proposiciones que la Secretaría general ha recibido desde la publicación del DT/1A. Estas proposiciones figuran en los documentos 74 a 92.

Annexe : 1 Annex : 1 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.

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ART.1	PHL/77/1-PHL/77/5	CTI/86/1-CTI/86/4
ART.6	PHL/77/6-PHL/77/7	
ART. 8	AUS/40/455-AUS/40/471(Add.1) PHL/77/8-PHL/77/12 SDN/90/1-SDN/90/3	S/75/1-S/75/7 TUN/76/1-TUN/76/14 CTI/86/5-CTI/86/9 ALG/89/8
ART. 16	CTI/86/10-CTI/86/11	
ART. 25	PHL/77/13-PHL/77/14	
ART. 26	CTI/86/12-CTI786/13	
ART. 35	PHL/77/15-PHL/77/17	
ART. 37	GRC/92/1-GRC/92/5	
ART. 38	CTI/86/14	GRC/92/6-GRC/92/8
ART. 40	PHL/77/18-PHL/77/21	
ART. 42A	PHL/77/22-PHL/77/23	CTI/86/15-CTI/86/16
ART. 43	PHL/77/24-PHL/77/25	CTI/86/17
ART. 44	PHL/77/26-PHL/77/49	CTI/86/18-CTI/86/27
ART. 45	PHL/77/50-PHL/77/51	CTI/86/28
ART. 46	PHL/77/52-PHL/77/57	CTI/86/29-CTI/86/32
ART. 47	PHL/77/58-PHL/77/62	CTI/86/33-CTI/86/38
ART. 48	PHL/77/63-PHL/77/65	CTI/86/39-CTI/86/41
ART. 49	PHL/77/66-PHL/77/69	CTI/86/42-CTI/86/44
ART. 50	PHL/77/70-PHL/77/73	CTI/86/45-CTI/86/48
ART. 51	CTI/86/49-CTI/86/52	
ART. 52	PHL/77/74	
ART. 53	CTI/86/53-CTI/86/61	
ART. 55	AUS/40/475-AUS/40/517(Add.1)	PHL/77/75-PHL/77/76
ART. 56	AUS/40/518-AUS/40/521(Add.1)	
ART. 59	AUS/40/522-AUS/40/528(Add.1)	
ART. 60	AUS/40/529-AUS/40/541(Add.1)	CTI/86/62-CTI/86/63
ART. 62	PHL/77/77-PHL/77/78	

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ART.	65	AUS/40/542(Add.1)

PHL/77/79-PHL/77/87

ALG/89/2

- ART. 66 PHL/77/88-PHL/77/90
- ART. 67 PHL/77/91-PHL/77/99

AP. 7 PHL/77/100-PHL/77/101

- AP. 10 AUS/40/543-AUS/40/556(Add.1)
- AP. 11 AUS/40/557-AUS/40/574(Add.1)
- AP. 18 F/G/74/1-F/G/74/15 CTI/86/64-CTI/86/65
- AP. 31 voir/see/véase

RES. 307

RES. 308

SUP

SUP

AP. 38 CTI/86/66-CTI/86/67

RES.	8	MOD SUP	AUS/40/575(Add.1) CTI/86/68	
RES.	9	NOC	AUS/40/576(Add.1)	
RES.	12	SUP	PHL/77/102	CTI/86/69
RES.	13	NOC	AUS/40/577(Add.1)	PHL/77/103
RES.	30	NOC	AUS/40/578(Add.1)	
RES.	38	SUP	CTI/86/71	
RES.	200	SUP	PHL/77/104	CTI/86/72
RES.	202	SUP	PHL/77/105	
RES.	203	SUP	CTI/86/73	
RES.	204	SUP	PHL/77/106	CTI/86/74
RES.	205	NOC	AUS/40/579(Add.1)	
RES.	206	SUP MOD	PHL/77/107 GRC/92/9-GRC/92/12	CTI/86/75
RES.	304	SUP	PHL/77/108	
RES.	306	SUP	PHL/77/109	CTI/86/76

PHL/77/110

PHL/77/111

CT1/86/77

CTI/86/70

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RES.	309	NOC	CTI/86/78
RES.	311	SUP	PHL/77/112
RES.	312	SUP	PHL/77/113
RES.	316	NOC	CTI/86/80
RES.	317	SUP	PHL/77/114
RES.	318	SUP	PHL/77/115
RES.	321	SUP	CTI/86/82
RES.	400	SUP	CTI/86/83
RES.	401	SUP	CTI/86/84
RES.	402	SUP	CTI/86/85
RES.	404	SUP	CTI/86/86
RES.	407	NOC	CTI/86/87
RES.	600	SUP	CTI/86/88
RES.	601	NOC	CTI/86/89

CTI/86/79

CTI/86/81

REC.	7	NOC	AUS/40/582(Add.1)
REC.	8	NOC	AUS/40/583(Add.1)
REC.	201	SUP MOD	CTI/86/90 GRC/92/13-GRC/92/23
REC.	203	SUP	CTI/86/91
REC.	204	SUP	CTI/86/92
REC.	300	SUP	CTI/86/93
REC.	301	SUP	CTI/86/94
REC.	316	MOD	AUS/40/584-AUS/40/590(Add.1)
REC.	406	NOC	AUS/40/591(Add.1)
REC.	600	NOC	AUS/40/592(Add.1)

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Projets de nouvelles Résolutions Draft New Resolutions Proyectos de nuevas Resoluciones

AUS/40/580(Add.1) ADD Résolution AUS-E relative à l'utilisation de la bande 136 - 137 MHz par le service mobile aéronautique (R)

Resolution AUS-E relating to the Use of the Band 136 - 137 MHz by the Aeronautical Mobile (R) Service

Resolución AUS-E relativa a la utilización de la banda 136 - 137 MHz por el servicio móvil aeronaútico (R)

AUS/40/581(Add.1) ADD

Résolution AUS-F relative à la compatibilité des équipements utilisés dans le(s) service(s) mobile(s) par satellite

Resolution AUS-F relating to the Compatibility of Equipments Used in the Mobile-Satellite Service(s)

Resolución AUS-F relativa a la compatibilidad de los equipos utilizados en los servicios móviles aeronáuticos

ALG/89/9

ADD

Résolution ALG/AA relative à l'étude et la mise en oeuvre d'un système mondial de détresse à terre

Resolution ALG/AA relating to the Study and Implementation of a Global Land Distress and Safety System

Resolución ALG/AA relativa al estudio y puesta en servicio de un sistema mundial de socorro y seguridad en tierra - 6 -MOB-87/DT/1A(Add.1)/FES

Projets de nouvelles Recommandations Draft New Recommendations Proyectos de nuevas Recomendaciones

AUS/40/593(Add.1) ADD

ADD

Recommandation AUS-1 relative aux futurs systèmes des télécommunications mobiles publiques

Recommendation AUS-1 relating to Futur Public Mobile Telecommunication Systems

Recomendación AUS-1 relativa a los sistemas públicos futuros de telecomunicaciones móviles

S/75/8

Recommandation B relative à l'extension des bandes de fréquences attribuées au service mobile par satellite et aux services mobiles

Recommendation B relating to the Extension of the Frequency Bands Allocated to the Mobile-Satellite and Mobile Services

Recomendación B

relativa a la amplicación de las bandas de frecuencias atribuidas al servicio móvil por satélite y a los servicios móviles



NOBBOT INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/1A-E 3 September 1987

Note by the Secretary-General

COORDINATED PROPOSALS

I have the honour to submit to the Conference, in pursuance of No. 379 of the Convention, a coordinated list of proposals with the exception of those concerning new Articles N37 to N41 which have been treated separately and are contained in Document DT/1B.

> R.E. BUTLER Secretary-General

Annex : 1



A N N E X

<u>Note</u>: This list is established on the basis of the proposals contained in Documents 1 - 70.

Contents of this list

- Col. 1 Nos. of the RR to which the proposals relate.
- Col. 2 Symbols indicating the nature of the proposal :
 - ADD = addition of a new provision
 - MOD = modification of an existing provision
 - (MOD) = editorial modification of an existing provision
 - NOC = provision to be maintained without change
 - SUP = deletion of the existing provision
- <u>Col. 3</u> Index numbers of proposals concerning the provisions mentioned in Col. 1.

Explanations

Proposals (for modification or addition) which are identical are identified by the sign = or * placed after their reference number.

For example, the symbols as used below

MOD	AAA/1/1=	BBB/1/1=
MOD	CCC/1/1*	DDD/1/1*
MOD	EEE/1/1	

mean that :

- proposals AAA/1/1 and BBB/1/1 are identical, but differ from other proposals;
- proposals CCC/1/1 and DDD/1/1 are identical, but differ from other proposals;
- proposal EEE/1/1 differs from other proposals.

If the equal sign is placed in brackets (=), this means that the proposal concerned is substantively the same but differs editorially.

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The symbols CEPT-2, CEPT-3, etc., used in some index numbers refer to proposals submitted jointly by certain CEPT countries. The countries in question with respect to each of these symbols are listed in the Table below.

Countries		CEPT-													
originating proposals	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Germany (F.R.)	x	x	x	x	x	x	x	x		x	x	x	x	x	x
Austria Belgium	x x		x x	x	x x	x x	x x	x x	x	x x	x x	x x	x x	x x	x x
Denmark	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Spain	x		x	x	x	x		x		x	x	x	x	x	x
Finland	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
France	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ireland	x	x	x			x	x	x		x	x	x	x	x	
Norway	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Netherlands	x		x			x	x	x	x	x	x	x	x	x	x
United Kingdom	x	x	x	x	x	x	x	x	x	x	x	x	x		x
Sweden	x	x		x	x	x	x	x	x	x	x	x	x	x	x
Switzerland	x		x	x		x	x		x	x		x	x	x	x
Turkey	x	x	x	x	x	x	x	x		x	x	x	x	x	x

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	N ^O RR <u>RR N^O.</u> N. ^O RR	Symbole <u>Symbol</u> Símbolo	Numéros d'indexage des propositions Index Numbers of Proposals Números de las Proposiciones						
	Col. 1	Col. 2	C	ol. 3					
	ARTICLE l Termes et	définitions	ARTICLE 1 Terms and definitions	ARTICULO 1 Términos y definiciones					
	Section II Services r	I adioélectriques	Section III Radio Services	Sección III Servicios radioeléctricos					
	34A	ADD	E/38/1 VT	N/49/4 PRG/61/1					
	34B	ADD	E/38/2 VT	N/49/5 PRG/61/2					
	35A	ADD	PRG/61/3 (voir/ <u>see</u> /véase	e ADD 45A: VTN/49/6)					
	35B	ADD	PRG/61/4 (voir/ <u>see</u> /véase	e ADD 45B: VTN/49/7)					
	39A	ADD ADD	ARG/5/1= US/ PRG/61/5	A/24/1= TUR/59/1=					
r	39B ·	ADD ADD	ARG/5/2= USA PRG/61/6	A/24/2= TUR/59/2=					
	39C	ADD	ARG/5/3= USA	A/24/3= TUR/59/3=					
	45A	ADD	VTN/49/6 (voir/ <u>see</u> /véase	e ADD 35A: PRG/61/3)					
	45B	ADD	VTN/49/7 (voir/ <u>see</u> /véase	e ADD 35B: PRG/61/4)					
	Section IV Stations e radioélect	t systèmes	Section IV Radio Stations and Systems	Sección IV Estaciones y sistemas radioeléctricos					
	67A	ADD	F/44/1						
	68A	ADD	F/44/2 B/5	57/1					
	69A	ADD	F/44/3						
	81A	ADD	ARG/5/4 USA	1/24/4 TUR/59/4					
	81B	ADD ADD	ARG/5/5= USA TUR/59/5	x/24/5=					
	101A	ADD	J/60/1						

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ARTICLE 6 Règles générales d'assignation et d'emploi des fréquences		ARTICLE 6 General Rules for the Assignment and Use of Frequencies	ARTICULO 6 Reglas generales para la asignación y el empleo de las frecuencias			
347	MOD MOD	ARG/5/6= DDR/7*	USA/24/6= G/33/2*	B/57/2*		
348	MOD MOD	ARG/5/7= DDR/7*	USA/24/7= G/33/3 [*]	B/57/3*		

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ARTICLE 8 ARTICLE 8 ARTICULO 8 Attribution des Frequency bandes de fréquences Allocations Sección I Section I Section I Régions et Zones **Regions and Areas** 405 MOD POR/6/1 · . Section IV Section IV Tableau d'attribution Table of des bandes de fréquences Frequency Allocations 448 MOD USA/24/14 70 - 72 kHz USA/24/8 MOD 70 - 90 kHz USA/24/8 MOD 72 - 84 kHz MOD USA/24/9 84 - 86 kHz MOD USA/24/10 86 - 90 kHz MOD USA/24/11 451 MOD USA/24/12 ARG/5/8 NOC 90 - 110 kHz MOD USA/24/13 110 - 130 kHz MOD USA/24/15 USA/24/15 110 - 112 kHz (Reg.3) MOD 112 - 115 kHz MOD USA/24/16 112 - 117.6 kHz MOD USA/24/16 115 - 117.6 kHz MOD USA/24/17 117.6 - 126 kHz USA/24/18 MOD 126 - 129 kHz MOD USA/24/19 129 - 130 kHz MOD USA/24/20 130 - 148.5 kHz MOD G/33/24 148.5 - 255 kHz MOD G/33/25 190 - 200 kHz NOC USA/24/21 PRG/61/7 200 - 285 kHz (Reg.2) MOD ARG/5/9

MOD

200 - 285 kHz (Reg.2+3)

USA/24/22-USA/24/23

91

Atribución de bandas de frecuencias

Regiones y Zonas

Sección IV Cuadro de atribución de bandas de frecuencias

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ART. 8 (suite/cont.)

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458	MOD	G/33/26		
283.5 - 315 kHz	MOD	CEPT-2/9/1		
325 - 335 kHz	NOC	PRG/61/8		
335 - 405 kHz	NOC	USA/24/26	PRG/61/8	
466A	ADD	CEPT-2/9/2		
415 - 495 kHz	MOD NOC	CAN/25/1 ARG/5/10	AUS/40/1	USA/24/27-28
435 - 495 kHz	MOD	CEPT-2/9/3	USA/24/28	
505 - 510 kHz	MOD	USA/24/30C		•
505 - 526.5 kHz (Reg.1)	MOD	CEPT-2/9/4	USA/24/30C	
505 - 526.5 kHz (Reg.3)	MOD	USA/24/30C		
510 - 525 kHz	MOD	USA/24/30D		
525 - 535 kHz	NOC	USA/24/30E		
469	MOD SUP	USA/24/30 AUS/40/2		
470A	ADD	USA/24/30A		
470 B	ADD	USA/24/30B		
471	SUP MOD	CEPT-2/9/5 USA/24/32	CAN/25/2 AUS/40/3	
472	MOD	J/60/1A		
472A	MOD MOD	CEPT-2/9/6= CAN/25/3	J/60/2=	
473	SUP	CEPT-2/9/7		
474	MOD	CEPT-2/9/8	USA/24/33	J/60/3
1 605.5 - 1800 kHz	NOC	AUS/40/4		
1 705 – 1 800 kHz	NOC	USA/24/34	PRG/61/9	
1 800 - 1850 kHz	MOD	G/33/27		
1 850 - 2 000 kHz (Reg.2)	MOD	G/33/28		
489	MOD	G/33/29=	J/60/4=	

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ART. 8 (suite/cont.)

500	MOD	CEPT-2/9/9=	J/60/5=	
500A	MOD	CEPT-2/9/10=	J/60/6=	
500B	MOD	CEPT-2/9/11=	J/60/7=	
2 850 - 3 025 kHz	NOC	USA/24/35	AUS/40/5	PRG/61/10
505	MOD	CEPT-2/9/12=	CAN/25/4=	J/60/8=
3 400 - 3 500 kHz	NOC .	USA/24/36	AUS/40/6	PRG/61/11
3 900 - 3 950 kHz (Reg.3)	NOC	AUS/40/7		
4 000 - 4 063 kHz	MOD NOC	USA/24/37 PRG/61/12	VTN/49/8	
517	SUP NOC	USA/24/38 ARG/5/11	B/57/4	
517A	ADD	VTN/49/9	•	
520	MOD	CEPT-2/9/13=	J/60/9=	
4 650 - 4 700 kHz	NOC	USA/24/39	AUS/40/8	PRG/61/13
4 700 - 4 750 kHz	NOC	PRG/61/14		
5 450 - 5 480 kHz (Reg.2)	NOC	USA/24/40	PRG/61/15	
5 480 - 5 680 kHz	NOC	USA/24/41	AUS/40/9	PRG/61/16
5 680 - 5 730 kHz	NOC	PRG/61/17		
6 525 - 6 685 kHz	NOC	USA/24/42	AUS/40/10	PRG/61/18
6 685 - 6 765 kHz	NOC	PRG/61/19		
8 815 - 8 965 kHz	NOC	USA/24/43	AUS/40/11	PRG/61/20
8 965 - 9 040 kHz	NOC	PRG/61/21		
529A	MOD	CEPT-2/9/14	J/60/10	
10 005 - 10 100 kHz	NOC	USA/24/44	AUS/40/12	
11 275 - 11 400 kHz	NOC	USA/24/45	AUS/40/13	
12 230 - 13 200 kHz	MOD	J/60/11		
532A	ADD	J/60/12		

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ART. 8 (suite/cont.)

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13 260 - 13 360 kHz	NOC	USA/24/46	AUS/40/14	·
16 360 - 17 410 kHz	MOD	J/60/13		
17 900 - 17 970 kHz	NOC	USA/24/47	AUS/40/15	
18 168 - 18 780 kHz	MOD	USA/24/48		
21 924 - 22 000 kHz	NOC	USA/24/49	AUS/40/16	
554	MOD	E/35/1		
74.8 - 75.2 MHz	MOD NOC	CEPT-3/10/1= USA/24/50	G/33/30= AUS/40/17	
572A	ADD	CEPT-3/10/2=	G/33/31=	
100 - 108 MHz	MOD	TUR/59/6		
587	MOD	TUR/59/7		ø
589	MOD	TUR/59/8		
108 - 117.975 MHz	MOD NOC	CEPT-3/10/3-4= USA/24/51	G/33/32-33= AUS/40/18	B/57/5
117.975 - 136 MHz	NOC	USA/24/52	AUS/40/19	
136 - 137 MHz	MOD MOD NOC	USA/24/53= URS/32/5 ARG/5/12	AUS/40/20= B/57/6 CEPT-3/10/5	G/33/34
594A	ADD	URS/32/6		
595	MOD	B/57/7		
150.05 - 156.7625 MHz	MOD	USA/24/54		
154 - 156.7625 MHz	MOD	USA/24/54	G/33/35	
156.7625 - 156.8375 MHz	MOD MOD	CEPT-2/9/15= USA/24/55	G/33/36=	· •
156.8375 - 174 MHz (Reg.1)	MOD	G/33/37		
613	MOD NOC	J/60/14 B/57/8		
613A	MOD MOD	ARG/5/13 CEPT-2/9/16=	USA/24/56 G/33/38=	J/60/15=
613B	ADD	G/33/39		
216 - 220 MHz	MOD	CAN/25/475(Add	.1)	

ART. 8 (suite/cont.)

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223 - 230 MHz (Reg.3)	NOC	AUS/40/21		
230 - 235 MHz (Reg.3)	NOC	AUS/40/21		
621	MOD	E/35/2		
6074	400	CAN/25/676(A44	1)	
627A	ADD	CAN/25/476(Add		,
328.6 - 335.4 MHz	MOD NOC	CEPT-3/10/6= USA/24/57	• •	
649	MOD	J/60/16		
470 - 790 MHz	MOD	CEPT-5/12/1	G/33/41	
790 - 862 MHz	MOD	G/33/42		
677A	ADD	CEPT-5/12/2=	G/33/43=	
680	MOD	G/33/44		
681	SUP	CEPT-5/12/3		
695A	ADD	G/33/45		
700	MOD	CAN/25/477(Add	.1)	B/57/9
890 - 902 MHz	MOD	CAN/25/478(Add	.1)	
960 - 1 215 MHz	NOC	USA/24/58	AUS/40/23	
1 300 - 1 350 MHz	NOC	USA/24/59	AUS/40/24	
723	NOC	USA/24/60		
1 530 - 1 535 MHz	MOD	CEPT-4/11/1 CAN/25/479(Add	USA/24/61 .1)	
726	MOD	USA/24/64		
726A	ADD	CEPT-4/11/6	USA/24/65	
726B	ADD	USA/24/66		
1 535 - 1 544 MHz	MOD	CEPT-4/11/2 CAN/25/480(Add	USA/24/62 1)	
1 544 - 1 545 MHz	MOD NOC	USA/24/63 CAN/25/481(Add.	.1)	B/57/10
1 545 - 1 559 MHz	MOD	USA/24/68 B/57/11	CAN/25/482-483 J/60/17-J/60/1	
728	MOD	ARG/5/14=	USA/24/67=	

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ART. 8 (suite/cont.) \sim

729	MOD	CEPT-4/11/7 CAN/25/483A(Add.1)
729A	ADD	CAN/25/489(Add.1) J/60/19
730A	ADD	USA/24/69 B/57/12
1 559 - 1 610 MHz	MOD NOC	CEPT-4/11/3 USA/24/70
1 610 - 1 626.5 MHz	MOD	CEPT-4/11/4 USA/24/71
733	MOD	CEPT-4/11/8= G/33/53A=
733A	ADD	ARG/5/15 CEPT-4/11/9
1 626.5 - 1 645.5 MHz	MOD	CEPT-4/11/5 USA/24/72-73 CAN/25/484(Add.1)
1 645.5 - 1 646.5 MHz	MOD NOC	USA/24/74 CAN/25/485(Add.1) B/57/13
1 646.5 - 1 660 MHz	MOD	USA/24/75 CAN/25/486-487(Add.1) B/57/14 J/60/20-21
1 660 - 1 660.5 MHz	MOD	CAN/25/488(Add.1) B/57/14A J/60/22
735	MOD	CEPT-4/11/10 CAN/25/489A(Add.1)
1 700 - 1 710 MHz (Reg.1)	MOD	G/33/46
1 710 - 2 290 MHz (Reg.1)	MOD	G/33/47
2 290 - 2 300 MHz (Reg.1)	MOD	G/33/48
2 300 - 2 450 MHz (Reg.1)	MOD	G/33/49
751	NOC	USA/24/76
752A	ADD	USA/24/79
2 450 - 2 500 MHz	MOD	USA/24/77-78
2 700 - 2 900 MHz	MOD NOC	AUS/40/25 USA/24/80
2 900 - 3 100 MHz	MOD	USA/24/81 G/33/50 AUS/40/26
772	SUP MOD	USA/24/82 AUS/40/27 URS/32/7(Corr.1)

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ART. 8 (suite/cont.)

774	SUP MOD	USA/24/82 AUS/40/28	CAN/25/7	G/33/51
775	SUP	CAN/25/7	G/33/51	
775A	ADD	USA/24/83=	AUS/40/29=	
775B	ADD	AUS/40/30		
3 100 - 3 300 MHz	MOD	AUS/40/31		
776	SUP	AUS/40/32		
3 500 - 3 700 MHz	MOD	CEPT-6/13/1	B/57/15	
3 600 - 4 200 MHz	MOD	CEPT-6/13/1	B/57/15	
784A	ADD	CEPT-6/13/2		
785A	ADD	B/57/16		
4 200 - 4 400 MHz		USA/24/84 si/ <u>see also</u> /véa: CEPT-3/10/11 et.		B/57/17 G/33/60)
5 000 - 5 250 MHz	MOD MOD	CEPT-3/10/7-8 USA/24/85=	G/33/52-53 AUS/40/34=	
5 350 - 5 460 MHz	NOC	USA/24/87		
5 460 - 5 470 MHz	NOC	USA/24/88		
796	MOD	CEPT-3/10/9	G/33/54	J/60/23
797	MOD	CEPT-3/10/10=	G/33/55=	
797A	ADD	USA/24/86	AUS/40/35	
5 470 - 5 650 MHz	MOD	USA/24/89=	URS/32/8=	AUS/40/36=
5 925 - 7 075 MHz	MOD	CEPT-6/13/3	B/57/18	
8 750 - 8 850 MHz	NOC	USA/24/90		
9 000 - 9 200 MHz	NOC	USA/24/91		
9 200 - 9 300 MHz	MOD MOD	USA/24/92= CAN/25/5	URS/32/8A(Corr AUS/40/37	.1)= J/60/24
824A	ADD	CAN/25/8	J/60/25	
824B	ADD	CAN/25/9		

ART. 8 (suite/cont.)

9 300 - 9 500 MHz	MOD	USA/24/93 AUS/40/38	CAN/25/6 J/60/26	G/33/56
9 500 - 9 800 MHz	MOD	AUS/40/39		
825A	ADD	USA/24/94	G/33/57	AUS/40/40
825B	ADD	G/33/58	AUS/40/41	
825C	ADD	G/33/59		
13.25 - 13.4 GHz	NOC	USA/24/95		
15.4 - 15.7 GHz	NOC	USA/24/96		

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ARTICLE 9ARTICLE 9ARTICULO 9Dispositions spécialesSpecial Rules for the
relatives à l'assignationDisposiciones especiales
relativas a la asignación y
of FrequenciesDisposiciones especiales
relativas a la asignación y
al empleo de las frecuencias

962	MOD J	/60/27
963	(voir / <u>see</u>	/ véase ARG/5)
964	MOD C.	AN/25/10

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ARTICLE 12 Notification et inscription dans le Fichier de référence international des fréquences des assignations de fréquence aux stations de radiocommunication de Terre	Notification and Recording in the Master International Frequency Register of frequency Assignments to Terrestrial			ARTICULO 12 Notificación e inscripción en el Registro Internacional de Frecuencias de asignaciones de frecuencia a estaciones de radiocomunicación terrenal		
Sous-section IIA Procédure à suivre dans les cas non traités dans les sous-sections IIB à IIE du présent article	Procedure to Be Followed I in Cases Not Covered by Sub-Sections IIB to IIE of this Article			Subsección IIA Procedimiento que ha de seguirse en los casos no tratados en las subsecciones IIB a IIE del presente artículo		
1314	(MOD)	USA/24/97= PRG/61/22=	AU	JS/40/42=	J/60/28=	
* Note/Nota	SUP	USA/24/97	Al	JS/40/43	PRG/61/22	
Sous-section IIB Procédures à suivre par les stations côtières radio- téléphoniques fonctionnant dans les bandes attribuées en exclusivité au service mobile maritime entre 4 000 kHz et 23 000 kHz	Sub-Section IIB Procedure to Be Followed for Coast Radiotele- phone Stations Operating in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz			seguirse p costeras r que funcio atribuidas al servici	nto que ha de ara las estaciones	
Titre/ <u>Title</u> /Título	MOD	J/60/29				
Note/Nota A.12 IIB.1	ADD	J/60/30				
Sous-section IIC Procédure à suivre par les stations aéronautiques fonctionnant dans les bandes attribuées en exclusivité aux services mobiles aéronautiques entre 2 850 kHz et 22 000 kHz	Allocated Exclusively to the Aeronautical Mobile Services		seguirse p aeronaútic en las ban exclusivam servicios	nto que ha de ara las estaciones as que funcionan das atribuidas ente a los móviles os entre 2 850 kHz		
Titre/ <u>Title</u> /Título	NOC	AUS/40/44				
1333	NOC	USA/24/98	AU	JS/40/45	PRG/61/23	
1334	NOC	USA/24/99	AU	JS/40/46	PRG/61/23	
1335	MOD	USA/24/100=	Al	JS/40/47=	J/60/31=	

ART. 12 (suite/cont.)

1336	(MOD)	USA/24/101=	AUS/40/48=	PRG/61/24=
* Note/Nota	SUP	USA/24/101	AUS/40/48	PRG/61/24
1337	NOC	USA/24/102	PRG/61/25	
1338	(MOD)	USA/24/103=	AUS/40/49=	PRG/61/26=
* Note/Nota	SUP	USA/24/103	AUS/40/49	PRG/61/26
1339	NOC	USA/24/104	PRG/61/27	
1340	NOC	USA/24/105		
1341	(MOD)	USA/24/106=	AUS/40/50=	PRG/61/28=
1341A	ADD	USA/24/107=	AUS/40/51=	J/60/32=

ADD IIF Titre/Title/Titulo

USA/24/108(=) G/33/4(=) ARG/5/16(=) $J/60/33(=)^{1})$

e.S.

Sous-section IIF

Procédure à appliquer par les administrations et l'IFRB pour la coordination de l'utilisation planifiée de la fréquence 518 kHz pour l'émission, par les stations côtières à destination de navires, d'avertissements concernant la navigation et météorologie et de renseignements urgents par télégraphie automatique à impression directe à bande étroite (NAVTEX)

Sub-Section IIF

Procedure to be Applied by Administrations and the IFRB for the Coordination of the Planned Use of the Frequency 518 kHz for the Transmission by Coast Stations of Navigational and Meteorological Warnings and Urgent Information to Ships by Means of Automatic Narrow-Band Direct-Printing Telegraphy (NAVTEX)

Subsección IIF

Procedimiento que han de aplicar las administraciones y la IFRB a fin de coordinar la utilización planificada de la frecuencia de 518 kHz para la transmisión por las estaciones costeras de avisos a los navegantes, boletines meteorológicos e información urgente con destino a los barcos por medio de un sistema automático de telegrafía de impresión directa en banda estrecha (NAVTEX)

1385A

USA/24/109= G/33/5(=)J/60/34(ADD 1631)=

ADD

¹⁾ Proposé par l'Administration japonaise comme nouvel article 14A au lieu d'une nouvelle sous-section IIF de l'article 12. Proposed by the Japanese Administration as a new Article 14A instead of a new Sub-section IIF of Article 12.

Propuesto por la Administración del Japón como nuevo Artículo 14A en lugar de nueva sub-sección IIF del Artículo 12.

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ART.12 (suite/cont.)

1385B	ADD ADD	USA/24/110= G/33/6	J/60/35 (ADD 1632)=
1385C	ADD	USA/24/111= (J/60/36(ADD 1633)=	G/33/7=
1385D	ADD	USA/24/112= J/60/37(ADD 1634)=	G/33/8(=)
1385E	ADD ADD	USA/24/113-117 G/33/9(=)	J/60/38-42(ADD 1635)(=)
1385F	ADD	USA/24/118= J/60/43(ADD 1636)=	G/33/10=
1385G	ADD	USA/24/119= J/60/44(ADD 1637)=	G/33/11(=)
1385H	ADD	USA/24/120= J/60/45(ADD 1638)=	G/33/12(=)
13851	ADD	USA/24/121(=) J/60/46(ADD 1639)(=)	G/33/13(=)
1385J	ADD ADD	USA/24/122(=) G/33/14	J/60/47(ADD 1640)(=)
Section VIII Dispositions diverses		Section VIII Miscellaneous Provisio	Sección VIII ons Disposiciones varias
1451	(MOD)	USA/24/123= AUS	3/40/52= PRG/61/29=

* Note/Nota SUP

USA/24/123

AUS/40/52= PRG/61/29= AUS/40/53 · PRG/61/29

ARTICLE 14A

Procédure à appliquer pour la coordination de l'utilisation planifiée de la fréquence 518 MHz pour l'émission par les stations côtières à destination de navires d'avertissements concernant la navigation et la météorologie et de renseignements urgents au moyen de la télégraphie automatique à impression directe à bande étroite (NAVTEX)

ARTICLE 14A

Procedure to be Applied for the Coordination of the Planned Use of the Frequency 518 kHz for the Transmission by Coast Stations of Navigational and Meteorological Warnings and Urgent Information to Ships by Means of Automatic Narrow-Band Direct-Printing Telegraphy (NAVTEX)

ARTICULO 14A

Procedimiento que ha de aplicarse para coordinar la utilización planificada de la frecuencia 518 kHz en la transmisión por las estaciones costeras de avisos a los navegantes, boletines meteorológicos e información urgente con destino a los barcos por medio de un sistema automático de telegrafía de impresión directa en banda estrecha (NAVTEX)

1631-1640 ADD

J/60/33-J/60/47

Voir nouvelle sous-section IIF de l'article 12. See new sub-section IIF of Article 12. Véase nueva sub-sección IIF del Artículo 12.

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ARTICLE 24 Licences		ARTICLE 24 Licences	ARTICULO 24 Licencias
2024	MOD	CHN/63/1	
2025	MOD	CHN/63/2	
2027	MOD	CHN/63/3	

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ARTICLE 25 ARTICLE 25 ARTICULO 25 Identification Identification Identificación de of Stations des stations las estaciones Section I Section I Sección I Dispositions générales General Provisions Disposiciones generales 2063A-2063B ADD J/60/48-J/60/49 2064A ADD DDR/7 =ARG/5/17= CEPT-7/14/1= USA/24/124= CAN/25/11= AUS/40/54= B/57/19= 2068 MOD DDR/7=ARG/5/18= CEPT - 7/14/2 =USA/24/125(=)CAN/25/12= AUS/40/55= B/57/20= 2069 MOD G/33/15 2069.1 SUP G/33/16 Section II Section II Sección II Attribution des séries Atribución de series Allocation of internationales et International Series internacionales y assignation des and Assignment of asignación de distintivos indicatifs d'appel Call Signs de llamada 2083 MOD G/33/17 SUP 2083.1 G/33/18 2087 MOD G/33/19 . 2087.1 SUP G/33/20 2087A MOD G/33/21 Section VI Section VI Sección VI Identités du service Maritime Mobile Service Identidades del servicio mobile maritime dans Identities in the móvil marítimo en el le service mobile maritime Maritime Mobile Service servicio móvil marítimo et le service mobile and the Maritime Mobile- y en el servicio móvil maritime par satellite Satellite Service marítimo por satélite 2149 MOD G/33/22

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ARTICLE 26 Documents de service

Section II Etablissement et modification des documents de service

2246 . SUP

ARTICLE 26 Service Documents

Section II Preparation and Amendment of Service Documents ARTICULO 26 Documentos de servicio

Sección II Preparación y modificación de los documentos de servicio

ARG/5/19

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ARTICLE 35 Service de radiorepérage et service de radiorepérage par satellite		ARTICLE 35 Radiodetermination Service and Radiodetermination- Satellite Service	ARTICULO 35 Servicios de radiodeterminación y de radiodeterminación por satélite
Section I Dispositions générales		Section I General Provisions	Sección I Disposiciones generales
2382	MOD	AUS/40/56	
Section II Dispositions relatives au service de radiorepérage par satellite		Section II Provisions for the Radiodetermination- Satellite Service	Sección II Disposiciones relativas al servicio de radiodetermi- nación por satélite
2838A	ADD ADD	ARG/5/20= AUS/40/57	USA/24/126=
2838B	ADD	ARG/5/21=	USA/24/127= TUR/59/9=
2839	MOD	AUS/40/58	
2840	MOD	AUS/40/59	
Section III Stations radiogoniométriques		Section III Radio Direction- Finding Stations	Sección III Estaciones radiogoniométricas
2842A	ADD	G/33/23	

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CHAPITRE IX Communication détresse et d		CHAPTER IX Distress and Safety Communication	Comunicad	CAPITULO IX Comunicaciones de socorro y seguridad	
Titre/ <u>Title</u> /Tftulo		MOD	AUS/40/60		
ARTICLE 37 Dispositions générales		ARTICLE 37 General Provisions	ARTICULO Disposici	37 cones generales	
2929	ADD .	CAN/25/234	AUS/40/61	J/60/50	
2929A	ADD	J/60/51			
2930	MOD MOD MOD	CEPT-8/15/1= USA/24/128 DDR/7* B/57/21*	E/43/1= CAN/25/235*	AUS/40/62*	
2931	SUP	J/60/52			
2932	SUP	DDR/7 AUS/40/63	USA/24/129 B/57/22	CAN/25/236 J/60/53	
2933	SUP	DDR/7 AUS/40/63	USA/24/129 B/57/22	CAN/25/236 J/60/53	
2934	SUP	DDR/7 AUS/40/63	USA/24/129 B/57/22	CAN/25/236 J/60/53	
2934A	SUP MOD	CEPT-8/15/2 E/43/2 USA/24/130	CAN/25/237 J/60/54	AUS/40/64	
2934A.1	SUP	CEPT-8/15/3	E/43/3	J/60/54	
2937A	SUP MOD MOD	AUS/40/65 DDR/7= B/57/23= USA/24/131*	J/60/55 CEPT-8/15/4= CAN/25/238*	E/43/4=	
2938	MOD	DDR/7= J/60/56=	USA/24/132=	B/57/24=	
2942	MOD	J/60/57			
2943	MOD	CEPT-8/15/5	B/57/25	J/60/58	
2943.1	(MOD)	CEPT-8/15/8			
2943A	ADD	CEPT-8/15/6			
2943B	ADD	CEPT-8/15/7			
2944-2949	SUP	DDR/7 CAN/25/239 B/57/26	CEPT-8/15/9 AUS/40/66 J/60/59	USA/24/133 E/43/5	

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ARTICLE 38 Fréquences pour la détresse et la sécurité			ARTICLE 38 Frequencies for Distress and Safety			ARTICULO 38 Frecuencias para socorro y seguridad		
Section I Fréquences disponibles			Section I Availability of Frequencies			Sección I Frecuencia	Sección I Frecuencias disponibles	
2967	SUP	DDR/7 AUS/40/67		CEPT-8/15/10 E/43/6		/24/134 7/27	CAN/25/240 J/60/60	
2968	SUP	DDR/7 AUS/40/67		CEPT-8/15/10 E/43/6		/24/134 7/27	CAN/25/240 J/60/60	
2969	(MOD)	DDR/7= AUS/40/68=		CEPT-8/15/11= E/43/7=		/24/135= 0/61=	CAN/25/241=	
2970	MOD MOD	DDR/7= CEPT-8/15/1	.2	AUS/40/69= USA/24/136	•	7/28= 0/62		
2971	SUP	AUS/40/70		B/57/29				
2971A	SUP	DDR/7 AUS/40/71		CEPT-8/15/13 E/43/8		/24/137 7/30	CAN/25/242 J/60/63	
2971B	SUP	DDR/7 AUS/40/71		CEPT-8/15/13 E/43/8		/24/137 7/30	CAN/25/242 J/60/63	
2971C	SUP	DDR/7 AUS/40/71		CEPT-8/15/13 E/43/8		/24/137 7/31	CAN/25/243 J/60/63	
2971D	SUP	DDR/7 AUS/40/71		CEPT-8/15/13 E/43/8		/24/137 7/31	CAN/25/243 J/60/63	
2972	(MOD)	DDR/7= AUS/40/72=		CEPT-8/15/14= E/43/9=		/24/138=)/64=	CAN/25/244=	
2973	MOD	DDR/7 E/43/10		CEPT-8/15/15 B/57/32		/24/139)/64A	AUS/40/73	
2974	MOD	B/57/33		J/60/65				
2975	SUP MOD	B/57/34 J/60/66						
2978A	SUP	DDR/7 AUS/40/74		CEPT-8/15/17 E/43/11	USA/ B/57	24/140 7/35	CAN/25/245 J/60/67	
2978B	SUP	DDR/7 AUS/40/74		CEPT-8/15/17 E/43/11	USA/ B/57	24/140 7/35	CAN/25/245 J/60/67	
2979	(MOD)	CEPT-8/15/1 J/60/68=	8=	USA/24/141=	AUS/	40/75=	E/43/12=	

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ART. 38 (suite/cont.)

2981	MOD (MOD)	B/57/36 CEPT-8/15/19= J/60/69=	USA/24/142=	AUS/40/76=	E/43/13=
2982	MOD MOD	CEPT-8/15/20 USA/24/143=	AUS/40/77 E/43/14=	B/57/37 J/60/70=	
2982A	MOD	AUS/40/78	B/57/38		
2982B-2982E	SUP	DDR/7 AUS/40/79	CEPT-8/15/21 E/43/15	USA/24/144 B/57/39	CAN/25/246 J/60/71
2983	(MOD)	CEPT-8/15/22= J/60/72=	USA/24/145=	AUS/40/80=	E/43/16=
2985	MOD	CEPT-8/15/23= E/43/17=	USA/24/146= J/60/73=	CAN/25/247=	AUS/40/81=
	MOD	B/57/40	3700775-		
2986	MOD	DDR/7 B/57/41	CEPT-8/15/24 J/60/74	CAN/25/248	AUS/40/82
	MOD	USA/24/147 =	E/43/18=		
2986A-2986D	SUP	DDR/7 AUS/40/83	CEPT-8/15/25 E/43/19	USA/24/148 B/57/42	CAN/25/249 J/60/75
2986E	SUP	DDR/7 AUS/40/83	CEPT-8/15/25 E/43/19	USA/24/148 J/60/75	CAN/25/249
	MOD	B/57/43		3, 00, 73	
2986F	SUP	DDR/7 AUS/40/83	CEPT-8/15/25 E/43/19	USA/24/148 J/60/75	CAN/25/249
	MOD	B/57/44	_, ., .,	-,,	
2986G-2986H	SUP	DDR/7 AUS/40/83	CEPT-8/15/25 E/43/19	USA/24/148 B/57/45	CAN/25/249 J/60/75
2987	(MOD)	CEPT-8/15/26= J/60/76= B/57/46	USA/24/149=	AUS/40/84=	E/43/20=
	NOC				
2988	MOD NOC	CEPT-8/15/27 B/57/47			
2988AA	ADD	AUS/40/85=	B/57/48=		
2988A-2988B	SUP	DDR/7 AUS/40/86	CEPT-8/15/28 E/43/21	USA/24/150 B/57/49	CAN/25/250 J/60/77
2988C	SUP	DDR/7	CEPT-8/15/28 E/43/21	USA/24/150 J/60/77	CAN/25/250
	MOD	AUS/40/86 B/57/50	E/4J/21	3/00///	

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ART. 38 (suite/cont.)

2988D	SUP	DDR/7 AUS/40/86	CEPT-8/15/28 E/43/21	USA/24/150 J/60/77	CAN/25/250
	MOD	B/57/51			
2988E-2988H	SUP	DDR/7 AUS/40/86 .	CEPT-8/15/28 E/43/21	USA/24/150 B/57/52	CAN/25/250 J/60/77
29881	SUP	DDR/7 AUS/40/86	CEPT-8/15/28 E/43/21	USA/24/150 J/60/77	CAN/25/250
	MOD	B/57/53		•	
2988J	SUP	DDR/7 AUS/40/86	CEPT-8/15/28 E/43/21	USA/24/150 J/60/77	CAN/25/250
	MOD	B/57/54	,		
2988K-2988N	SUP	DDR/7 AUS/40/86	CEPT-8/15/28 E/43/21	USA/24/150 B/57/55	CAN/25/250 J/60/77
2989	(MOD)	DDR/7= AUS/40/87=	CEPT-8/15/29= E/43/22=	USA/24/151= J/60/78=	CAN/25/251=
2992	(MOD)	DDR/7= AUS/40/88=	CEPT-8/15/30= E/43/23=	USA/24/152= J/60/79=	CAN/25/252=
2993A-2993B	SUP	DDR/7 AUS/40/89	CEPT-8/15/31 E/43/24	USA/24/153 B/57/56	CAN/25/253 J/60/80
2993C	(MOD)	CEPT-8/15/32= J/60/81=	USA/24/154=	AUS/40/90=	E/43/25=
2993D	MOD MOD	DDR/7= USA/24/155	CEPT-8/15/33= AUS/40/91	CAN/25/254= B/57/57	E/43/26= J/60/82
2993E	(MOD) (MOD)	DDR/7* CEPT-8/15/34= J/60/83=	CAN/25/255* USA/24/155A=	AUS/40/92=	E/43/27=
2994	MOD MOD	DDR/7= CEPT-8/15/35	AUS/40/93= USA/24/156	E/43/28	J/60/84
2995	SUP	B/57/58			
2995A	MOD	AUS/40/94			
2995B-2995C	SUP	DDR/7 AUS/40/95	CEPT-8/15/36 E/43/29	USA/24/157 B/57/59	CAN/25/256 J/60/85
2996	(MOD)	DDR/7* CEPT-8/15/37= AUS/40/96	CAN/25/257* USA/24/158=	E/43/30=	J/60/86=

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ART. 38 (suite/cont.)

2997	(MOD)	J/60/87 DDR/7* CEPT-8/15/38= AUS/40/97	CAN/25/258* USA/24/159=	E/43/31=	
2997A	SUP	J/60/87			
2998		J/60/87 DDR/7* CEPT-8/15/39= AUS/40/98	CAN/25/259* USA/24/160=	E/43/32=	
2998A	SUP MOD	J/60/87 D/31/1			
2998B	SUP MOD	J/60/87 D/31/2			
2998C	SUP MOD	J/60/87 D/31/3	• .		,
2998D		J/60/87 DDR/7* CEPT-8/15/40= AUS/40/99	CAN/25/260* USA/24/161=	E/43/33=	
2998E	SUP MOD	J/60/87 AUS/40/100			·
2999	(MOD)	DDR/7* CEPT-8/15/41= AUS/40/101	CAN/25/261* USA/24/162=	J/60/88 * E/43/34=	
3001	(MOD)	DDR/7* CEPT-8/15/42= AUS/40/102	CAN/25/262* USA/24/163=	J/60/89* E/43/35=	
3005	NOC	B/57/60			
3008A-3008D	SUP	DDR/7 AUS/40/103	CEPT-8/15/43 E/43/36	USA/24/164 B/57/61	CAN/25/263 J/60/90
Section II Protection de de détresse e		uences Prote	on II ction of Distre afety Frequenci		de las frecuencias y seguridad
3010	MOD	DDR/7 AUS/40/104	CEPT-8/15/44 E/43/37	USA/24/165 B/57/62	CAN/25/264 J/60/91

ART. 38 (suite/cont.)

3016	MOD MOD	USA/24/166= DDR/7	CAN/25/265= AUS/40/105	E/43/38	
3018	MOD MOD	DDR/7= E/43/39= CAN/25/266	CEPT-8/15/45= B/57/63=	USA/24/167= J/60/92=	AUS/40/106=
3023	MOD MOD MOD	DDR/7= . CEPT-8/15/46* AUS/40/107	USA/24/168= E/43/40*	CAN/25/267=	
3031A	(MOD)	J/60/93			
3031C	ADD	D/34/1			
3032	MOD	DDR/7=	CEPT-8/15/47=	CAN/25/268=	AUS/40/108=
3033	MOD MOD	DDR/7* CEPT-8/15/48= J/60/94=	USA/24/169* CAN/25/269=	B/57/64 [*] AUS/40/109=	E/43/41=

Section III Veille sur le de détresse	s fré	quences Watch	lon III n on Distress mencies	Sección II Escucha en de socorro	n las frecuencias
3038	MOD MOD MOD	DDR/7* CEPT-8/15/49 CAN/25/270=	B/57/65* USA/24/170 E/43/42=	AUS/40/110	J/60/95
3038A	ADD	CEPT-8/15/50			-
3040	MOD	DDR/7= AUS/40/111=	CEPT-8/15/51= E/43/43=	USA/24/171= B/57/66=	CAN/25/271= J/60/96=
3041	MOD MOD	DDR/7= E/43/44= CEPT-8/15/52	USA/24/172= B/57/67=	CAN/25/272=	AUS/40/112=
3042	MOD MOD	DDR/7= CEPT-8/15/53 J/60/97	AUS/40/113= USA/24/173	B/57/68= CAN/25/273	E/43/45
3043	SUP MOD	AUS/40/114 DDR/7=	CEPT-8/15/54=	B/57/69=	
3044-3046	SUP	AUS/40/114			
3046A	SUP MOD	AUS/40/114 DDR/7=	CEPT-8/15/55=	USA/24/174=	B/57/70=

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ART. 38 (suite/cont.)

3046A.1	SUP MOD	AUS/40/114 CEPT-8/15/56			
3046B-3046E	SUP	AUS/40/114			
3048	MOD MOD MOD	DDR/7* B/57/ CEPT-8/15/57= AUS/40/115		J/60/98=	
3049	SUP	AUS/40/116			
3050	MOD MOD	DDR/7* CEPT-8/15/58=	AUS/40/117* USA/24/176=	B/57/72* J/60/99=	
3051	MOD MOD	DDR/7* CEPT-8/15/59=	AUS/40/118* USA/24/177=	B/57/73* J/60/100=	
3052	MOD MOD	DDR/7* CEPT-8/15/60=	AUS/40/119* USA/24/178=	B/57/74* J/60/101=	
3052A	MOD MOD MOD	DDR/7* CEPT-8/15/61 CAN/25/274=	USA/24/179 * AUS/40/120 E/43/46=	B/57/75 * J/60/102	
3053	MOD MOD	USA/24/180= J/60/103= B/57/76	CAN/25/275=	AUS/40/121=	E/43/47=
3054	MOD NOC	USA/24/181 CAN/25/276	AUS/40/122	B/57/77	J/60/104
3055	SUP	AUS/40/123	٠		
3057	MOD MOD	DDR/7* CEPT-8/15/62=	AUS/40/124* USA/24/182=	B/57/78* J/60/105=	
3058	MOD MOD	DDR/7* CEPT-8/15/63=	AUS/40/125 * USA/24/183=	B/57/79* J/60/106=	
3059	MOD	CEPT-8/15/64			
3060	MOD	CEPT-8/15/65			

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ARTICLE 39 Communication	ns de d	létresse	ARTICLE 39 Distress Communications	ARTICULO 39 Comunicaciones de socorro
Section II Signal de dé	tresse	·	Section II Distress Signal	Sección II Señal de socorro
3088	MOD	J/60/107		
3090	MOD	CAN/25/4	90(Add.1)	
3091	MOD	J/60/108		
Section IV Messages de o	létress	se	Section IV Distress Messages	Sección IV Mensajes de socorro
3093	MOD	J/60/109		
3095	MOD	CAN/25/2	77 J/60/110	
3097-3100	MOD	J/60/111	-J/60/114	
3108	MOD	J/60/115		
Section VI Accusé de rée message de dé			Section VI Acknowledgement of Receipt of a Distress Message	Sección VI Acuse de recibo de un mensaje de socorro
3130	MOD	J/60/116		
Section VII Trafic de dét	tresse		Section VII Distress Traffic	Sección VII Tráfico de socorro
3138	MOD	J/60/117		
3141	MOD	J/60/118		
3143	MOD	J/60/119		
3149	MOD	J/60/120		
3152	MOD	J/60/121		
3153	MOD	J/60/122		
Section VIII Transmission de détresse p tion qui n'es même en détre	p <mark>ar un</mark> e st pas	sta-	Section VIII Transmission of a Distress Message by a Station Not Itself in Distress	Sección VIII Transmisión de un mensaje de socorro por una esta- ción que no se halle en peligro
3164	MOD	J/60/123		
3166	MOD	J/60/124		

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ARTICLE 40 ARTICLE 40 ARTICULO 40 Transmisiones de urgencia Transmissions d'urgence et Urgency and Safety de sécurité, et transports Transmissions, and y seguridad, y transportes sanitaires Medical Transports sanitarios Section I Section I Sección I Signal et messages Señal y mensajes de Urgency Signal and d'urgence Messages urgencia 3196 MOD \cdot DDR/7= CEPT-8/15/66= USA/24/184= ARG/5/22 =AUS/40/126= CAN/25/278= E/43/48= B/57/80= J/60/125= 3197 MOD DDR/7 =ARG/5/23 =CEPT-8/15/67= USA/24/185= CAN/25/279= AUS/40/127= E/43/49= B/57/81= J/60/126= 3198-3199 MOD J/60/127-J/60/128 3201 MOD CEPT-8/15/68= E/43/50 = rMOD B/57/82 J/60/129 Section II Section II Sección II Medical Transports Transports sanitaires Transportes sanitarios 3210 MOD J/60/130 Section III Section III Sección III Signal et messages de Safety Signal and Señal y mensajes de sécurité Messages seguridad 3221 MOD DDR/7 =ARG/5/24 =USA/24/186= CAN/25/280= AUS/40/128= B/57/83= J/60/131= 3222 MOD DDR/7 =ARG/5/25 =CEPT-8/15/69= USA/24/187= CAN/25/281= AUS/40/129= E/43/51= B/57/84= MOD J/60/132 3224 MOD CEPT-8/15/70= E/43/52=

Signaux d'alarme et		ARTICLE 41 Alarm and Warning Signals	ARTICULO 41 Señales de alarma y de avisos	
Section I Signaux des 1 localisation			Section I Emergency Position- Indicating Radiobeacon Signals	Sección I Señales de radiobaliza de localización de sinistros
3259A	ADD.	USA/24/1	88 D/34/2	
Section II Signaux d'ala radiotélégrag radiotéléphor	phique	et	Section II Radiotelegraph and Radiotelephone Alarm Signals	Sección II Señales de alarma radiotelegráfica y radiotelefónica
Titre/ <u>Title</u> / Título	MOD	J/60/133		
3268-3269	MOD	J/60/134	-J/60/135	
3272	NOC	CAN/25/2	82	•
3274	MOD	J/60/136		
3279	SUP	CAN/25/4	91(Add.1)	
3280-3281	MOD	J/60/137	-J/60/138	
Section IV Signal d´avis navigateurs	s aux		Section IV Navigational Warning Signal	Sección IV Señal de avisos a los navegantes

3284 MOD PRG/61/30

3285 MOD USA/24/189= PRG/61/31=

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ARTICLE 42 ARTICLE 42 ARTICULO 42 Services spéciaux Special Services Servicios espaciales relatifs à la sécurité Relating to Safety relativos a la seguridad

Section I Section I Sección I Messages météorologiques Meteorological Messages Mensajes meteorológicos

3226 MOD J/60/139

Section IV Section IV Sección IV Système de télégraphie à Narrow-Band Direct Sistema de telegrafía de printing Telegraphy impression directe à bande impresión directa de banda étroite pour la transmission System for Transmission estrecha para transmisión de aux navires d'avertissements of Navigational and avisos a los navegantes, concernant la météorologie Meteorological Warnings boletines meteorológicos e et la navigation et de and Urgent Information información urgente con renseignements urgents to Ships (NAVTEX) destino a los barcos (système NAVTEX) (Sistema NAVTEX)

Titre <u>Title</u> Título	SUP	DDR/7 AUS/40/129A	CEPT-8/15/71 E/43/53	USA/24/190 B/57/85	CAN/25/283 J/60/140
3339-3341	SUP	DDR/7 AUS/40/129A	CEPT-8/15/72 E/43/54	USA/24/190 B/57/85	CAN/25/283 J/60/140A

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CHAPITRE X Service mobile aéronautique et service mobile aéronautique par satellite			Aeron Servi Aeron	CHAPTER X Aeronautical Mobile Service and Aeronautical Mobile- Satellite Service		CAPITULO X Servicio móvil aeronáutico y servicio móvil aeronáutico por satélite	
ARTICLE 42A Introduction				LE 42A duction		ARTICULO 4 Introducci	
3362	(MOD) NOC	AUS/40/3 ARG/5/26		B/57/174= USA/24/411	CAN	/25/284	PRG/61/32
* Note/Nota -	SUP	AUS/40/3	52	B/57/177			
3362.1	NOC	ARG/5/27 B/57/176		USA/24/412 PRG/61/33	CAN	/25/285	AUS/40/353
3363	SUP	ARG/5/28 AUS/40/3		CEPT-9/16/1 B/57/175		/24/413 D/426	CAN/25/286

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ARTICLE 43 Autorité de la personne responsable des stations mobiles dans le service mobile aéronautique et dans le service mobile aéronautique par satellite			ARTICLE 43 Authority of the Person Responsible for the Mobile Stations in the Aeronautical Mobile Service and in the Aeronautical Mobile- Satellite Service			ARTICULO 43 Autoridad de la persona responsable de las estaciones móviles del servicio móvil aeronáutico y del servicio móvil aeronáutico por satélite		
Titre <u>Title</u> Título	MOD	B/57/178	=	J/60/427=				
3364	MOD MOD NOC	B/57/179 PRG/61/3 ARG/5/29	4	J/60/428= USA/24/414	AUS	/40/355		
3365	MOD NOC	B/57/180 ARG/5/30		J/60/429= USA/24/414	AUS	/40/355	PRG/61/35	
3366	NOC	ARG/5/31		USA/24/414	AUS	/40/355	PRG/61/36	
3367	ADD	ARG/5/32 AUS/40/3		CEPT-9/16/2=	USA	/24/415=	CAN/25/287=	

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ARTICLE 44 Certificats d des stations des stations d'aéronef	d'aéro	nef et	for Ai	or's Certifica Arcraft Station For Aircraft Ear	6	estación d	4 o de operador de e aeronave y de errena de aeronave
Section I Dispositions	généra	les	Sectio Genera	n I 1 Provisions		Sección I Disposicio	nes generales
3392	SUP	ARG/5/33 AUS/40/3		CEPT-9/16/3 PRG/61/37	USA,	/24/416	CAN/25/288
3393	MOD MOD	ARG/5/34 ³ CEPT-9/1		CAN/25/289 * USA/24/417 =	AUS	′40/358=	PRG/61/38=
3393AA	ADD	J/60/421					
3393A	(MOD) MOD MOD NOC	J/60/422 CEPT-9/10 AUS/40/3 ARG/5/35		USA/24/418=	CAN/	25/290=	
3394	MOD MOD	CEPT-9/10 ARG/5/36		USA/24/419= PRG/61/39	CAN/	25/291=	AUS/40/360=
-3394.1	NOC	ARG/5/37		USA/24/420	AUS/	40/360A	PRG/61/40
3395	MOD MOD NOC	ARG/5/38 USA/24/42 AUS/40/30		PRG/61/41=			
3396	SUP MOD NOC	ARG/5/39 USA/24/42 AUS/40/30		PRG/61/42=			
3397-3399	SUP NOC	ARG/5/40 AUS/40/30		USA/24/423	PRG/	61/43	
3400-3402	NOC	ARG/5/41		AUS/40/360B	PRG/	61/44	
Section II Classes et ca de certificat	-	es		n II s and Categorie tificates	25		ategorías de os de operador

3403	SUP	ARG/5/42	PRG/61/45
	(MOD)	USA/24/424=	J/60/423=
	NOC	AUS/40/360B	

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ART. 44 (suite/cont.)

3404	(MOD) NOC	USA/24/426= ARG/5/43	J/60/424= AUS/40/362A		
3403.1 3404.1	SUP	CEPT-9/16/7 J/60/425	USA/24/425 PRG/61/46	AUS/40/361-AUS	/40/362
3405	MOD MOD	USA/24/427= PRG/61/47	CAN/25/292=	AUS/40/363=	
3406	MOD	ARG/5/44= AUS/40/364=	CEPT-9/16/8= PRG/61/48=	USA/24/428=	CAN/25/293=
3407-3409	SUP	CEPT-9/16/9 PRG/61/49	USA/24/429	CAN/25/294	AUS/40/365
3410	MOD	CEPT-9/16/10= PRG/61/50=	USA/24/430=	CAN/25/295=	AUS/40/366=
3411	SUP MOD MOD	ARG/5/45 CEPT-9/16/11= PRG/61/51	USA/24/431=	CAN/25/296=	AUS/40/367=
3412	SUP NOC	ARG/5/45 USA/24/432	PRG/61/52 AUS/40/367A		

Section III Conditions d'obtention des certificats d'opérateurs		Section III Conditions for the Issue of Operators' Certificates		Sección III Condiciones para la obtención del certificado de operador			
3413-3417	NOC	ARG/5/46		USA/24/433	AUS	/40/367A	PRG/61/53
3418	SUP MOD NOC	ARG/5/47 PRG/61/54 USA/24/43					
3419	SUP MOD NOC	ARG/5/47 PRG/61/55 USA/24/43					
3420	SUP MOD	ARG/5/47 CAN/25/29	97	USA/24/434 PRG/61/56			
3420A	ADD	USA/24/43	35				
3421	SUP MOD	ARG/5/47 CAN/25/29	98	USA/24/436	PRG	/61/57	
3421A	ADD	USA/24/43	37				

ART. 44 (suite/cont.)

3422	SUP MOD	ARG/5/47 PRG/61/58	USA/24/438	CAN/25/299
3423	SUP MOD	ARG/5/47 USA/24/439	PRG/61/59	
3423.1	ADD	USA/24/440		
3423.2	ADD	USA/24/441	•	
3424	SUP MOD NOC	ARG/5/47 USA/24/442 PRG/61/60		· · · · · · · · · · · · · · · · · · ·
3425	SUP Mod Mod	ARG/5/47 USA/24/443 CAN/25/300=	PRG/61/61=	
3426	SUP NOC	ARG/5/47 PRG/61/62	USA/24/444	CAN/25/301
3427	SUP NOC	ARG/5/47 PRG/61/63	USA/24/444	
3428	SUP MOD NOC	ARG/5/47 PRG/61/64 USA/24/445		
3429	SUP MOD NOC	ARG/5/47 PRG/61/65 USA/24/445		
3430	SUP MOD	ARG/5/47 CAN/25/302	USA/24/446(vo PRG/61/66	ir/ <u>see</u> /véase ADD 3430A:USA/24/447)
3430A	ADD	USA/24/447		
3431	SUP MOD	ARG/5/47 CAN/25/303	USA/24/448	PRG/61/67
3431A	ADD	ÚSA/24/449		
3432	SUP MOD	ARG/5/47 PRG/61/68	USA/24/450	CAN/25/304
3433	SUP MOD	ARG/5/47 USA/24/451	PRG/61/69	
3434	SUP MOD	ARG/5/47 USA/24/452	PRG/61/70	
3435	SUP MOD	ARG/5/47 USA/24/453=	CAN/25/305=	PRG/61/71=

ART. 44 (suite/cont.)

3436	SUP NOC	ARG/5/47 PRG/61/72	USA/24/454	CAN/25/306
3437	SUP NOC	ARG/5/47 PRG/61/73	USA/24/454	
3438-3439	SUP NOC	ARG/5/47 . USA/24/455	PRG/61/74	
3440	SUP MOD	ARG/5/47 USA/24/456	PRG/61/74	
3441	SUP MOD	ARG/5/47 USA/24/457	PRG/61/74	
3441A	ADD	USA/24/458		
3442	SUP (MOD)	ARG/5/47 USA/24/459	PRG/61/74	
3443	SUP MOD	ARG/5/47 USA/24/460	PRG/61/75	
3444	NOC	ARG/5/48	PRG/61/76	
3445-3447	NOC	ARG/5/48	USA/24/461	PRG/61/76
3448	MOD NOC	USA/24/462 ARG/5/48	PRG/61/76	
3449-3450	NOC	ARG/5/48	USA/24/463	PRG/61/76
3451	NOC MOD	ARG/5/48 PRG/61/77	USA/24/463	
3452	MOD NOC	USA/24/464(=) ARG/5/48	PRG/61/78(=)	
3453	NOC	ARG/5/48	USA/24/465	PRG/61/79
3454	MOD MOD	ARG/5/49 CEPT-9/16/12=	CAN/25/307 USA/24/466=	PRG/61/80 AUS/40/368=
3455	NOC	ARG/5/50	PRG/61/81	
3456	NOC	ARG/5/50	USA/24/467	PRG/61/82

ARTICLE 45 Personnel des aéronautiques		ons	 LE 45 mel of mutical Static	ons	ARTICULO 45 Personal de estaciones	
Titre <u>Title</u> Título	MOD	ARG/5/51= AUS/40/36	CEPT-9/16/13= J/60/430=	-	/24/468= /61/83=	CAN/25/308=
3483	MOD	ARG/5/52= AUS/40/37	CEPT-9/16/14= J/60/431(=)	•	/24/469= /61/84=	CAN/25/309=

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ARTICLE 46 Inspection de d'aéronef et terriennes d'	des st	ions Inspectations Stat	CLE 46 ection of Aircra ions and Aircraf n Stations	t de aerona	46 n de las estaciones ve y de las s terrenas de
3509	MOD MOD	ARG/5/54 CEPT-9/16/15= J/60/432=	USA/24/470= PRG/61/85=	CAN/25/310=	AUS/40/371(=)
3510	MOD	ARG/5/55(=) AUS/40/372=	CEPT-9/16/16= J/60/433=	USA/24/471= PRG/61/86=	CAN/25/311=
3511	NOC	ARG/5/56 PRG/61/87	USA/24/472	CAN/25/311A	AUS/40/373
3512	NOC	ARG/5/56 PRG/61/88	USA/24/472	CAN/25/311A	AUS/40/373
3513	MOD	ARG/5/57= AUS/40/374=	CEPT-9/16/17= J/60/434=	USA/24/473= PRG/61/89=	CAN/25/312=
3514	MOD NOC	J/60/435 ARG/5/58	USA/24/474	AUS/40/375	PRG/61/90
3515	MOD	ARG/5/59= AUS/40/376=	CEPT-9/16/18= J/60/436=	USA/24/475= PRG/61/91=	CAN/25/313=

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ARTICLE 47 Vacations des du service mo aéronautique		ons	Stati	ng Hours of ons in the autical Mobile		ARTICLE 47 Horarios de del servic aeronáutice	e las estaciones io móvil
Titre <u>Title</u> Título	MOD	ARG/5/60= AUS/40/37		CEPT-9/16/19= J/60/437=		/24/476= /61/92=	CAN/25/314=
Section I Généralités			Section Generation			Sección I Generalidad	les
3541	MOD MOD	ARG/5/61 CEPT-9/16 PRG/61/93	•	J/60/438 USA/24/477=	CAN/	/25/315=	AUS/40/378=
Section II Stations aéron	nautiq	ues	Section Aerona	on II autical Stations	5	Sección II Estaciones	aeronáuticas
Titre <u>Title</u> Título	MOD	J/60/439					
3542	MOD	ARG/5/62= AUS/40/37		CEPT-9/16/21= J/60/440=	•	/24/478= /61/94=	CAN/25/316=
Section III Stations d´aé:	ronef			on III aft Stations		Sección III Estaciones	[de aeronave
Titre <u>Title</u> Título	MOD	J/60/441					
3542A	MOD	ARG/5/63(AUS/40/38		CEPT-9/16/22= J/60/442=	USA/	24/479=	CAN/25/317=
3543	SUP MOD	CEPT-9/16 J/60/443	5/23	USA/24/480	URS/	32/1	PRG/61/95

ARTICLE 48 Communication d'aéronef ave du service mo et du service maritime par	ec les obile m e mobil	stations A stations (aritime S .e h .ite a	Aircr Commu Stati Marit and i	LE 48 aft Stations nicating with ons in the ime Mobile Serv n the Maritime e-Satellite Ser	comunic los ser y móvil satélit	ones an c vici man	de aeronave con estacione los móvil mar: ftimo por	s de
Titre . <u>Title</u> Título	MOD	ARG/5/64= AUS/40/38 J/60/444		CEPT-9/16/24= B/57/181(=)	/24/481(/61/96=	(=)	CAN/25/318=	
3571	MOD MOD	ARG/5/65= CEPT-9/16, AUS/40/382	/25	B/57/182= USA/24/482 J/60/445	/61/97= /25/319		URS/32/2	
3571.1	SUP MOD NOC	URS/32/3 CAN/25/320 ARG/5/66		AUS/40/383= USA/24/484	7/183= /61/98	J/6	60/446 =	. N

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ARTICLE 49 Conditions à stations mob mobile aéron service mobi par satellite	iles d' autiqu le aér	u service e et du	ARTICLE 49 Conditions to be Observed by Mobile Stations in the Aeronautical Mobile Service and in the Aeronautical Mobile Satellite Service	ARTICULO 49 Condiciones que deben reunir las estaciones móviles del servicio móvil aeronáutico y del servicio móvil aeronáutico por satélite
Titre <u>Title</u> Título	MOD	J/60/447		
Sec.I <u>Title</u> Título	ADD	ARG/5/67	= CEPT-9/16/26=	USA/24/485= AUS/40/384=
Section I Service mobil	le aéro	onautique	Section I Aeronautical Mobile Service	Sección I - Servicio móvil aeronáutico
3597	MOD NOC	J/60/448 USA/24/48	86 PRG/61/99	
3598	MOD NOC	J/60/449 USA/24/48	36 PRG/61/100	
3599	NOC	USA/24/48	36 PRG/61/101	
3600	MOD NOC	J/60/450 USA/24/48	PRG/61/102 86	
3601	SUP MOD NOC	PRG/61/10 J/60/451 USA/24/48		
3602	SUP MOD NOC	PRG/61/10 J/60/452 USA/24/48		
3603	MOD NOC	PRG/61/10 USA/24/48		
3604	MOD NOC	J/60/453 USA/24/48	36 PRG/61/105	
Titre Sec.II <u>Title</u> Tftulo	ADD S	ARG/5/68=	= CEPT-9/16/27=	USA/24/487= AUS/40/385=
Section II Service mobi par satellite		onautique	Section II Aeronautical Mobile- Satellite Se rv ice	Sección II Servicio móvil aeronáutico por satélite
3605	ADD	ARG/5/69=	= CEPT-9/16/28=	USA/24/488= AUS/40/386=

ARTICLE 50 Dispositions spéciales relatives à l'emploi des fréquences dans le service mobile aéronautique			ARTICLE 50 Special Rules Relating to the Use of Frequencies in the Aeronautical Mobile Service			ARTICULO 50 Disposiciones especiales relativas al empleo de frecuencias en el servicio móvil aeronáutico		
voir/ <u>see</u> /véas	se	ARG/5/70						
Titre <u>Title</u> Título	MOD	CEPT-9/16/29 B/57/184=	9=	USA/24/489= J/60/454=		/25/321= /61/106=	AUS/40/387=	
3630	MOD MOD	CEPT-9/16/30 USA/24/490=		J/60/455 CAN/25/322=		/61/107 /40/388=	B/57/185=	
3631	MOD	CEPT-9/16/3	1=	J/60/456=	PRG	/61/108=		
3632	(MOD)	CEPT-9/16/3: B/57/186=	2=	USA/24/491= J/60/457=		/25/323= /61/109=	AUS/40/389=	
* Note/Nota	SUP	AUS/40/390		B/57/187	J/6	0/458	PRG/61/109	
3632A	ADD	J/60/459						
3633	MOD NOC	CEPT-9/16/33 USA/24/492	3	CAN/25/324 KEN/58/1		J/60/460 PRG/61/110		
3634	SUP	USA/24/493		PRG/61/111				
3635	SUP MOD	USA/24/494 CEPT-9/16/34	4=	PRG/61/112 J/60/461=				

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ARTICLE 51 Ordre de priorité des communications dans le service mobile aéronautique et dans le service mobile aéronautique par satellite			ARTICLE 51 Order of Priority of Communications in the Aeronautical Mobile- Service and in the Aeronautical Mobile- Satellite Service			ARTICULO 51 Orden de prioridad de las comunicaciones en el servicio móvil aeronáutico y en el servicio móvil aeronáutico por satélite		
3651	MOD MOD	CAN/25/3 CEPT-9/1 B/57/188	6/35	CHN/63/4= USA/24/495 J/60/462		40/391 61/113-PRG	61/120	
3651.1	NOC	CEPT-9/1	6/36	USA/24/496	B/57	/189	PRG/61/121	
3651.2	SUP NOC	USA/24/49 CEPT-9/1		CAN/25/326	B/57	/191	PRG/61/122	
3652	NOC	CEPT-9/10	6/38	USA/24/498	B/57	/190	PRG/61/123	

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ARTICLE 52ARTICLE 52ARTICULO 52Procédure généraleGeneral RadiotelegraphProcedimiento generalradiotélégraphique dans leProcedure in theradiotelegráfico en elservice mobile aéronautiqueAeronautical Mobileservicio móvil aeronáuticoServiceServiceServicio móvil aeronáutico

3677-3767 SUP ARG/5/71 USA/24/499 PRG/61/124

Restructuration de l'article / Rearrangement of the Article Reestructuración del artículo ۰.

L'Administration de l'URSS propose de supprimer les sections et de réarranger les sous-sections comme suit / The USSR Administration proposes to delete the sections and rearrange the sub-sections as set out below / La Administración de la URSS propone suprimir las secciones y de reorganizar las sub-secciones como siguiente:

A. Dispositions générales	General Provisions	Disposiciones generales
B. Forme de l'appel	Method of Calling	Procedimiento de llamada
C. Appels à plusieurs stations	Calls to Several Stations	Llamada a varias estaciones
D. Forme de la réponse à l'appel	Form of Reply to Calls	Procedimiento de respuestas a la llamada
E. Difficultés de réception	Difficulties in Reception	Dificultades en la recepción
F. Signal de fin de transmission	Signal for the End of Transmission	Señal de fin de transmisión
G. Accusé de réception	Acknowledgement of Receipt	Acuse de recibo
H. Fin du travail	End of Work	Señal de fin de trabajo

Les propositions relatives à cette restructuration sont identifiées par le signe #. / The # sign has been used to identify the proposals relating to the rearrangement. / Las propuestas relativas a la reestructuración se identifican mediante el símbolo #.

Section I Dispositions	généra	les	Section General	I Provisions	ección I isposiciones	generales
Titre <u>Title</u> Título	SUP	URS/32/10	0#			
3677A	ADD	URS/32/1	1#			

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URS/32/29# (devient/becomes/pasa a ser 3709E)

3679 NOC URS/32/13 3680 NOC URS/32/13 3680A ADD voir/see/véase URS/32/57# (ex 3764) 3680B ADD voir/see/véase URS/32/58# (ex 3765) Sección II Section II Section II Calls Llamadas Appels Titre Title SUP URS/32/14# Título 3681 SUP URS/32/15# 3683 MOD CAN/25/327(=)URS/32/16(=)3683.1 ADD CAN/25/329 URS/32/17 3684 MOD CAN/25/328 URS/32/18 3684.1 ADD CAN/25/329 CAN/25/330= URS/32/19= 3685 MOD 3685A ADD URS/32/20 3686 MOD CAN/25/331 URS/32/21 3687 SUP URS/32/22 MOD CAN/25/331A 3688 SUP CAN/25/332 URS/32/23 3689 NOC URS/32/24 3690 SUP URS/32/23 3691-3694 SUP CAN/25/333 URS/32/23 3695 URS/32/25# (devient/becomes/pasa a ser 3709A) (MOD) 3696 (MOD) URS/32/26# (devient/becomes/pasa a ser 3709B) URS/32/27# (devient/becomes/pasa a ser 3709C) 3697 (MOD) 3698 (MOD) URS/32/28# (devient/becomes/pasa a ser 3709D)

ART. 52 (suite/cont.)

3699

MOD

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ART. 52 (suite/cont.) 3700 (MOD) URS/32/30# (devient/becomes/pasa a ser 3709F) 3701 SUP URS/32/31 Section III Section III Sección III Preliminary Operations Opérations préliminaires **Operaciones** preliminares Titre Title SUP URS/32/32# Título 3702-3706 SUP URS/32/33 Section IV Section IV Sección IV Method of Calling, Reply Procedimiento de llamada, Forme de l'appel, réponse to Calls and Signals à l'appel et signaux respuesta a la llamada y señales preparatorios del préparatoires au trafic Preparatory to Traffic tráfico Titre Title SUP URS/32/34# Titulo 3707 (MOD) URS/32/35# 3708 NOC URS/32/36 3709 MOD URS/32/37 3709A-3709F ADD voir/see/véase URS/32/25#-URS/32/30# (ex 3695-3700) 3710-3718 SUP URS/32/38 URS/32/39 3719-3720 NOC 3721-3736 SUP URS/32/40 URS/32/41# 3737 (MOD) 3738 MOD URS/32/42 3739 NOC URS/32/43 Section V Section VSection ▼ Forwarding (Routing) Ecoulement du trafic Curso del tráfico of Traffic Titre SUP URS/32/44# Title

Tftulo

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ART. 52 (suite/cont.)

3740-3744	SUP	URS/3	32/45	
3745-3747	SUP	CAN/2	25/334	URS/32/45
3748-3753	SUP	URS/3	32/45	
Section VI Fin du trafic du travail	et		Section VI End of Traffic and Work	Sección VI Fin del tráfico y del trabajo
3754	(MOD)	URS/3	32/46#	
3755	NOC	URS/3	2/47	
3756	SUP	URS/3	2/48	
3757	(MOD)	URS/3	2/49#	
3758	MOD	URS/3	2/50	
3759	SUP	URS/3	2/51	
3760	(MOD)	URS/3	2/52#	
3761	NOC	URS/3	2/53	
3762	SUP	URS/3	2/54	
Section VII Direction du t	ravail		Section VII Control of Working	Sección VII Dirección del trabajo
Titre <u>Title</u> Título	SUP	URS/3	2/55#	
3763	SUP	URS/3	2/56	
3764	(MOD)	URS/3	2/57# (devient/ <u>become</u>	s/pasa a ser 3680A)
3765	(MOD)	URS/3	2/58# (devient/become:	s/pasa a ser 3680B)
Section VIII Essais			Section VIII Tests	Sección VIII Pruebas
Titre <u>Title</u> Título	SUP	URS/3	2/59#	
3766-3767	SUP	URS/3	2/60	

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ARTICLE 53 Procédure rac dans le serv: aéronautique	ice mol	éphonique Radi pile in t	CLE 53 otelephone Proc he Aeronautical le Service - Ca	en el se	0 53 miento radiotelefónico ervicio móvil tico - Llamadas
3793	SUP NOC	CEPT-9/16/39 USA/24/500	URS/32/61 PRG/61/125	AUS/40/392	J/60/463
3794	MOD MOD NOC	USA/24/501(Cc URS/32/62 PRG/61/125	rr.1)= CAN/2	5/335= J/60)/464=
3794.1	ADD ADD	USA/24/502(Cc CAN/25/337	orr.1)=	J/60/466=	
3795	MOD MOD NOC	USA/24/503= URS/32/63 PRG/61/125	CAN/25/336=	J/60/46	5=
3795.1	ADD ADD	USA/24/504= CAN/25/337	J/60/466=		
3796	MOD MOD	CEPT-9/16/40 USA/24/505= J/60/467=	CAN/25/338= PRG/61/126(=)	URS/32/64=	AUS/40/393=
3797	MOD SUP	USA/24/506 (v URS/32/65 (vc AUS/40/394 (v	CAN/25/339= voir/ <u>see</u> /véase M voir/ <u>see</u> /véase AD voir/ <u>see</u> /véase A r/ <u>see</u> /véase MOD	D 3797A : URS, DD 3797A : AUS	/32/66) 5/40/395)
3797A	ADD	URS/32/66=	AUS/40/395=		
3798	MOD MOD SUP		<pre>CAN/25/340= J/60/469* pir/<u>see</u>/véase AD poir/<u>see</u>/véase A</pre>		
3798A	ADD	USA/24/508=	URS/32/68(=)	AUS/40/397=	J/60/470=
3799	SUP	CEPT-9/16/43 AUS/40/398	USA/24/509 J/60/471	CAN/25/341 PRG/61/129	URS/32/69
3800	SUP NOC	PRG/61/130 URS/32/70			
3801	SUP	URS/32/71	PRG/61/130		
3802-3805	SUP	CEPT-9/16/44 AUS/40/399	USA/24/510 J/60/472	CAN/25/342 PRG/61/130	URS/32/71

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CHAPITRE XI CHAPTER XI CAPITULO XI Service mobile maritime Maritime Mobile Service Servicios móvil marítimo and Maritime Mobiley movil marítimo por et mobile maritime par Satellite Service satélite satellite

ARTICLE 54A Registre du service radioélectrique

ARTICLE 54A Radio Log

ARTICULO 54A Registro del servicio .

radioeléctrico

Article/Articulo

,

D/30/1-D/30/7

ADD

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ARTICLE 55ARTICLE 55ARTICULO 55Certificats des opérateursOperators CertificatesCertificado de operador dedes stations de navire etfor Ship Stations andestación de barco y dedes stations terriennesShip Earth Stationsestación terrena de barcode navire

<u>Note</u> : Les Administrations de la République fédérale d'Allemagne, de l'Espagne et du Japon proposent d'insérer toutes les dispositions concernant les certificats d'opérateurs pour les radiocommunications SMDSM dans un nouvel article distinct (Article N55) (voir les propositions D/30/8 à D/30/65, E/37/1 à E/37/68 et J/60/353 à J/60/420 après l'Article 55).

Note : The Administrations of the Federal Republic of Germany, Spain and Japan propose to insert all the provisions relating to the Operators' Certificates for GMDSS Radiocommunications in a new separate Article (Article N55) (see proposals D/30/8 to D/30/65, E/37/1 to E/37/68 and J/60/353 to J/60/420 after Article 55).

Nota: Las Administraciones de la República Federal de Alemania, de España y del Japón proponen que todas las disposiciones relativas a los certificados de operadores para las radiocomunicaciones del SMSSM se incluyan en un nuevo artículo distinto (Artículo N55) (véanse las proposiciones D/30/8 a D/30/65, E/37/1 a E/37/68 y J/60/353 a J/60/420 a continuación del Artículo 55).

Section I Dispositions générales	Section I General Provisions	Sección I Disposiciones generales
3860 MOD NOC	CEPT-10/17/1 TUR/59/10	
3861 MOD NOC	CEPT-10/17/2 TUR/59/10	
3862 SUP NOC	CEPT-10/17/3 TUR/59/10	
3863-3866 <u>NOC</u>	TUR/59/10	
3863A ADD	B/57/192	
3867 MOD NOC	CEPT-10/17/4 TUR/59/10	
3868-3875 <u>NOC</u>	TUR/59/10	
3876 MOD NOC	USA/24/511 TUR/59/10	
3877 <u>NOC</u>	TUR/59/10	

ART. 55 (suite/cont.)

Catégories de certificats pour les opérateurs des		Section II ts Categories of Certificates for Sh Stations Operators	Sección II Categorías de certificados ip de operador de estación de barco
Titre <u>Title</u> Título	MOD MOD	CEPT-10/17/5 CAN/25/343Ø=	B/57/193 TUR/59/11= GRC/70/1=
Note l/Nota l	ADD	CEPT-10/17/6	
3878	(MOD)	CEPT-10/17/7	
3882A-3882C	ADD	CEPT-10/17/8-CEPT-10/17	/10
3882A.1	ADD	CEPT-10/17/12	
3883	(MOD)	CEPT-10/17/11	
3883.1	(MOD)	CEPT-10/17/12	
388 3 A	ADD ADD	CAN/25/343 TUR/59/12=	GRC/70/2=
3883B-3883E	ADD	TUR/59/13-TUR/59/16=	GRC/70/3-GRC/70/6=
3884	MOD	CEPT-10/17/13	
3884A-3884C	ADD	CEPT-10/17/14-CEPT-10/1	7/16
3885	MOD	CEPT-10/17/17	USA/24/512
3885A	ADD	CEPT-10/17/18	
3890A	ADD ADD	CAN/25/344 TUR/59/17=	GRC/70/7=
3890 B- 3890D	ADD	TUR/59/18-TUR/59/20=	GRC/70/8-GRC/70/10=
Section III Conditions d' des certifica		Section III Conditions for the eur Issue of Operators Certificates	Sección III Condiciones para la obtención del certificado de operador
Titre <u>Title</u> Título	MOD	B/57/194	
3892	MOD	USA/24/513	

ART. 55 (suite/cont.)

3949A ADD CEPT-10/17/19

G. Certificat général et certificat restreint d'opérateur de communications automatiques

G. General and Restricted Certificates for Automated CommunicationsG. Certificados general y restringido para comunicaciones automáticas

3949B-39490 · ADD CEPT-10/17/20-CEPT-10/17/33

3949A ADD CAN/25/345

G. Certificats d'opérateur d'équipements utilisés pour les communications automatiques

G. Certificates for Operators of Equipment Used for Automated Communications
 G. Certificado de operador del equipo utilizado en las comunicaciones automáticas
 3949B-3949U ADD CAN/25/346-CAN/25/371

3949A ADD TUR/59/21= GRC/70/11=

G. Certificat d'opérateur radioélectronique première classe pour les communications automatiques dans le service mobile maritime

G. First Class Radioelectronic Operator Certificate for automated communications in the maritime mobile service

G. Certificado de operador radioelectrónico de primera clase para las comunicaciones automatizadas en el servicio móvil marítimo

3949B-3949J ADD TUR/59/22-TUR/59/30= GRC/70/12-GRC/70/20=

ADD

3949BA

TUR/59/31=

GRC/70/21=

- H. Certificat d'opérateur radioélectronique deuxième classe pour les communications automatiques dans le service mobile maritime
- H. Second Class Radioelectronic Operator's Certificate for Automated Communications in the Maritime Mobile Service
- H. Certificado de operador radioelectrónico de segunda clase para las comunicaciones automatizadas en el servicio móvil marítimo

3949BB-3949BJ ADD TUR/59/32-TUR/59/40= GRC/70/22-GRC/70/30=

ART.55 (suite/cont.)

3949CA ADD TUR/59/41(=) GRC/70/31(=) I. Certificat d'exploitation général pour les communications automatiques dans le service mobile maritime I. General Operating Certificate for Automated Communications in the Maritime Mobile Service I. Certificado de explotación general para comunicaciones automatizadas en el servicio móvil marítimo 3949CB ADD TUR/59/42(=) GRC/70/32(=)3949CC-3949CF ADD TUR/59/43-TUR/59/46= GRC/70/33-GRC/70/36= 3949DA ADD TUR/59/47(=)GRC/70/37(=)J. Certificat d'exploitation restreint pourles communications automatiques dans le service mobile maritime J. Restricted Operating Certificate for automated communications in the maritime mobile service J. Certificado de explotación restringida para comunicaciones automatizadas en el servicio móvil marítimo 3949DB ADD $TUR/59/48(=) \cdot GRC/70/38(=)$ 3949DC-3949DF ADD TUR/59/49-TUR/59/52= GRC/70/39-GRC/70/42=

Section IV Stages p r ofessionnels	Section IV Qualifying Service		Sección IV Periodos de prácticas	
Titre/ <u>Title</u> /Título	MOD	CAN/25/372	B/57/195	
3949V-3949X	ADD	CAN/25/372A-C	AN/25/374	

ART.55 (suite/cont.)

Sec. V Titre/Title/Título ADD USA/24/514

Section V

Certificats exigés des opérateurs des stations de navire et des stations terriennes de navire pour participer au SMDSM

Section V Operators' Certificates for Ship Stations and Ship Earth Stations Required to Participate in the GMDSS

Sección V

Certificados de operador de estación de barco y de estación terrena de barco necesarios para participar en el SMSSM

N3954-N3983 ADD USA/24/515-USA/24/545

Sec. V Titre/Title/Título ADD B/57/196

Section V

Catégories de certificats applicables aux stations de navire et aux stations terriennes de navire pour les communications automatiques

Section V Categories of Certificates for Ship Stations and Ship Earth Stations for Automated Communications

Sección V Categorias de certificados para estaciones de barco y estaciones terrenas de barcos que efectuan comunicaciones automáticas

3954-3962 ADD B/57/197-B/57/205

Sec. VI Titre/Title/Titulo ADD B/57/206

Section VI Conditions d'obtention des certificats pour les stations automatiques

Section VI Conditions for the Issue of Certificates for Automated Stations

Sección VI Condiciones para la obtención del certificado de operador para las estaciones automatizadas

3963-3978W

ADD B/57/207-B/57/246

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Titre/Title/Titulo ADD D/30/8 - D/30/9

ARTICLE N55

Certificats des opérateurs des stations de navire et des stations terriennes de navire pour les communications automatiques

ARTICLE N55

Operators' Certificates for Ship Stations and Ship Earth Stations for Automated Communications

ARTICULO N55

Certificados de operador de estación de barco y de estación terrena de barco para las comunicaciones automatizadas

N3860-N3920 ADD D/30/10-D/30/65

Titre/Title/Tftulo ADD E/37/1 - E/37/2

ARTICLE N55

Certificats pour le service des stations de navire et des stations terriennes de navire qui utilisent les fréquences et les techniques prescrites au chapitre NIX

ARTICLE N55

Certificates for the Service of Ship Stations and Ship Earth Stations Which Use the Frequencies and Techniques Prescribed in Chapter NIX

ARTICULO N55

Certificados para el servicio de las estaciones de barco y de las estaciones terrenas de barco que utilicen las frecuencias y técnicas prescritas en el Capítulo NIX

N3860-N3930 ADD E/37/3-E/37/68

Titre/Title/Tftulo ADD J/60/353

ARTICLE N55

Certificats d'opérateurs pour stations de navire et stations terriennes de navire à bord de navires participant à des radiocommunications SMDSM

ARTICLE N55

Operator's Certificates for Ship Stations and Ship Earth Stations on Board Ships Participating in GMDSS Radiocommunications

ARTICULO N55

Certificado de operador de estación de barco y de estación terrena de barco a bordo de los navíos que intervienen en las radiocomunicaciones del SMSSM

N3860-N3920 ADD J/60/354-J/60/420

ARTICLE 56	ARTICLE 56	ARTICULO 56
Personnel des stations du	Personnel of Stations	Personal de las estaciones
service mobile maritime	in the Maritime Mobile	del servicio móvil marítimo
	Service	

Title	MOD	CEPT-10/17/34=	B/57/247=
Título		·	

Titre

<u>Note</u> : Les Administrations de la République fédérale d'Allemagne, de l'Espagne et du Japon proposent d'insérer toutes les dispositions concernant le personnel des stations pour les radiocommunications SMDSM dans le service mobile maritime dans un nouvel article distinct (Article N56) (voir les propositions D/30/66 à D/30/74, E/37/69 à E/37/82 et J/60/473 à J/60/478 après l'Article 56).

Note : The Administrations of the Federal Republic of Germany, Spain and Japan propose to insert all the provisions relating to the personnel of stations for GMDSS Radiocommunications in the Maritime Mobile Service in a new separate Article (Article N56) (see proposals D/30/66 to D/30/74, E/37/69 to E/37/82 and J/60/473 to J/60/478 after Article 56).

Nota: Las Administraciones de la República Federal de Alemania, de España y del Japón proponen que todas las disposiciones relativas al personal de las estaciones para las radiocomunicaciones del SMSSM del servicio móvil marítimo se incluyan en un nuevo artículo distinto (Artículo N56) (véanse las proposiciones D/30/66 a D/30/74, E/37/69 a D/37/82 y J/60/473 a J/60/478 a continuación del Artículo 56).

Section I Personnel des stations côtières		Section I Personnel of Coast Stations	Sección I Personal de las estaciones costeras	
Titre <u>Title</u> Título	MOD	CEPT-10/17/35		
3979	MOD	B/57/248		

Section II Classe et nombre minimum d'opérateurs dans les stations à bord des navires		Section II Sección II Class and Minimum Number Clase y número mínimo de of Operators for operadores en las estaciones s Stations on board Ships a bordo de barcos
Titre <u>Title</u> Título	MOD	CEPT-10/17/36
3979A	ADD	AN/25/375
3980A	ADD	3/57/249
3981	MOD NOC	5/57/250 ISA/24/546
3982	(MOD)	SA/24/547

MOD

B/57/251

ART. 56 (suite/cont.)

3983	(MOD) MOD	USA/24/548 B/57/252
3984	(MOD) MOD	USA/24/549 B/57/253
3985	MOD	B/57/254
3986	MOD	B/57/255
3987	ADD .	USA/24/550
3987-3993	ADD	B/57/256-B/57/262

Sec. III Titre/Title/Título

CEPT-10/17/37

TUR/59/53=

Classe et nombre minimum d'opérateurs dans les stations à bord des navires effectuant des communications automatiques

Section III

Class and Minimum Number of Operators for Stations on board Ships Using Automated Communications

Sección III Clase y número mínimo de operadores para estaciones a bordo de barcos que utilizan comunicaciones automáticas

3987-3993 ADD CEPT-10/17/38-CEPT-10/17/44

Sec. III Titre/Title/Título

ADD

GRC/70/44=

Section III

Classe et nombre minimum d'opérateurs pour les stations à bord de navires utilisant les techniques et les fréquences prescrites pour les communications automatiques dans le service mobile maritime

Section III

Class and minimum Number of Operators for Stations on board Ships using the Techniques and frequencies prescribed for automated communications in the Maritime Mobile Service

Sección III

Clase y número mínimo de operadores de estaciones a bordo de barcos que utilizan técnicas y frecuencias prescritas para las comunicaciones automatizadas en el servicio móvil marítimo

3988-3990	ADD	TUR/59/54-TUR/59/56=	GRC/70/45-GRC/70/47=
3891-3892	ADD	TUR/59/57-TUR/59/58(=)	GRC/70/48-GRC/70/49(=)

Section III

ADD

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ART.56 (Suite/cont.)

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Sec. IV Titre/Title/Tftulo

TUR/59/59=

GRC/70/50=

Section IV

ADD

Catégories de stations de navire utilisant les techniques et les fréquences prescrites pour les communications automatiques

Section IV

Categories of Ship Stations using the techniques and frequencies prescribed for automated communications

Sección IV

Categorías de estaciones de barco que utilizan las técnicas y frecuencias prescritas para las comunicaciones automatizadas

3994 - 3998 ADD TUR/59/60-TUR/59/64= GRC/70/51-GRC/70/55=

- 59 -MOB-87/DT/1A-F/E/S

Titre/Title/Tftulo ADD D/30/66-D/30/67

ARTICLE N56

Personnel des stations pour les communications automatiques dans le service mobile maritime

ARTICLE N56 Personnel of Stations for Automated Communications in the Maritime Mobile Service

ARTICULO N56 Personal de las estaciones para comunicaciones automáticas del servicio móvil marítimo

N3979-N3983

D/30/68-D/30/74

Titre/<u>Title</u>/Tftulo ADD E/37/69-E/37/70

ADD

ARTICLE N56

Personnel des stations côtières et de navire qui utilise les fréquences et les techniques indiquées au chapitre NIX

ARTICLE N56

Personnel of Coast and Ship Stations Which Use the Frequencies and Techniques Described in Chapter NIX

ARTICULO N56

Personal de las estaciones costeras y de barco que utilicen las frecuencias y técnicas establecidas en Capítulo NIX

N3979-N3988 ADD E/37/71-E/37/82

Titre/Title/Titulo ADD J/60/473

ADD

ARTICLE N56

Personnel des stations du service mobile maritime et du service mobile maritime par satellite participant à des radiocommunications SMDSM

ARTICLE N56

Personnel of Those Stations in the Maritime Mobile Service and the Maritime Mobile-Satellite Service which participate in GMDSS Radiocommunications

ARTICULO N56

Personal de las estaciones del servicio móvil marítimo y del servicio móvil marítimo por satélite que intervienen en las radiocomunicaciones del SMSSM

N3979-N3981

J/60/474-J/60/478

- 60 -MOB-87/DT/1A-F/E/S

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ARTICLE 58 ARTICULO 58 ARTICLE 58 Vacations des stations Working Hours in the Horarios de las estaciones du service mobile maritime Maritime Mobile Service del servicio móvil marítimo Titre/Title/Tftulo MOD J/60/479 Section I. Généralités Section I. General Sección I. Generalidades MOD J/60/480 4044 Section IIA Titre/Title/Tftulo ADD J/60/481 Section IIA Stations terriennes côtières Section IIA Coast Earth Stations Sección IIA Estaciones terrenas costeras ADD 4051A J/60/482 Titre/Title/Titulo ADD Sec. IV J/60/483 Section IV Stations terriennes de navire. Section IV Ship Earth Stations Sección IV Estaciones terrenas de barco J/60/484 ADD 4071

- 61 -MOB-87/DT/1A-F/E/S

ARTICLE 59 Conditions à remplir dans le service mobile maritime et dans le service mobile maritime par satellite		ans Condi time Obsei Lle Mari Serv Mari	CLE 59 itions to Be rved in the time Mobile ice and in the time Mobile- llite Service	móvil mar	nes de miento del servicio fitimo y del móvil marítimo
Section I Service mobi	le maritime		ion I time Mobile Serv	Sección I vice Servicio	móvil marítimo
4104	MOD	J/60/485	•		
4106	MOD	G/33/61=	J/60/486=		
4110	MOD	G/33/62=	J/60/487=		
4112	MOD	G/33/63			
4116	MOD	G/33/64=	J/60/488=		
4118	MOD	G/33/65			•
4122	MOD MOD	DNK+/8/1= J/60/489	E/42/1=		
4122A	ADD ADD	DDR/7= J/60/490	CEPT-11/18/1=	USA/24/551=	CAN/25/376=
4122B-4122C	ADD	J/60/491-3	J/60/492		
4123	(MOD)	USA/24/552	2 J/60/493		
4123A	SUP (MOD)	DNK+/8/2 USA/24/554	E/42/2		
4123B	ADD		CEPT-11/18/2= 3 (comme/as/como	(4123A)=	CAN/25/377=
	ADD	URS/32/81	J/60/494	(12311)	0111, 20, 01,
4123D-4123U	ADD	G/33/66 - G/	/33/83		
4124A-4124D	ADD	J/60/495-	J/60/498		
4125	(MOD)	J/60/499			
4126	MOD	J/60/500			
4127	MOD MOD	DDR/7= CAN/25/378	CEPT-11/18/3=	USA/24/555=	
4131	MOD	CEPT-11/18	3/4=	J/60/501=	
4132	MOD	DDR/7 J/60/502	CEPT-11/18/5	USA/24/556	CAN/25/379

- 62 -MOB-87/DT/1A-F/E/S/

ART.59 (suite/cont.)

4133	(MOD)	J/60/503		
4134	MOD	J/60/504		
4136A	ADD	USA/24/557=	2	J/60/505=
4137	(MOD)	USA/24/558=	2	J/60/506=
4137A	ADD -	DDR/7=	CEPT-11/18/6=	CAN/25/380=

S.Sec. E Titre/Title/Titulo ADD DNK+/8/3= E/42/3=

E. Stations de navires utilisant les techniques d'appel sélectif numériqueE. Ship Stations Using Digital Selective Calling Techniques

E. Estaciones de barco que utilizan técnicas de llamada selectiva digital

 4137B-4137FB
 ADD
 DNK+/8/4-DNK+/8/19

 4137C-4137GB
 ADD
 E/42/4-E/42/17

Section IISection IISección IIConditions à remplir par
les stations terriennes
de navireConditions to Be
Observed by Ship
Earth StationsCondiciones que deben
cumplir las estaciones
terrenas de barcoTitre/Title/Título MODJ/60/507

4139 SUP G/33/84

Section III Communications des aéronefs avec des stations du service mobile maritime et du service mobile maritime par satellite		Section III Aircraft Communicating with Stations of the Maritime Mobile Service and the Maritime Mobile- Satellite Service	Sección III Estaciones de aeronave que comunican con estaciones de los servicios móvil marítimo y móvil marítimo por satélite
4144	MOD	G/33/85	
4145	MOD	URS/32/4	
4154	MOD	G/33/86	
4155	ADD	G/33/87	

ART. 59 (suite/cont.)

Sec. IV Titre/Title/Titulo ADD USA/24/559

Section IV

Conditions que doivent observer les stations de navire et les stations terriennes de navire quand ils se trouvent temporairement dans les ports

Section IV

Conditions to be Observed by Ship Stations and Ship Earth Stations While Temporarily in Ports and Harbors

Sección IV

Condiciones que deben cumplir las estaciones de barco y las estaciones terrenas de barco cuando se encuentran temporalmente en los puertos y ensenadas

4155 ADD USA/24/560

- 64 -MOB-87/DT/1A-F/E/S

ARTICLE 60 Dispositions relatives à 1 fréquences da service mobil	femploi des ans le	ARTICLE 60 Special Rules Rela to the Use of Frequencies in the Maritime Mobile Se	-	relativas	ones especiales al empleo de las as en el servicio
Section I Dispositions	générales	Section I . General Provisions	2	Sección I Disposicio	ones generales
4180	MOD	USA/24/561			
4181A-C	ADD	USA/24/562-USA/24/564			٠
4183	MOD	G/33/88			
4183A	ADD	URS/32/82			
⁻ 4184A	SUP MOD	J/60/508 G/33/89	E/3	6/1	
4184B	SUP MOD	J/60/508 G/33/90			
4184C	ADD	G/33/91			
4188B	ADD	G/33/92			
4188C	ADD	G/33/93			
4196	MOD	USA/24/565=	URS	/32/83=	
4196A-4196M	ADD	G/33/95-G/33/110			
4197	SUP MOD	G/33/94 USA/24/566 B/57/263		/32/84 0/509	E/36/2
4197.1	SUP MOD	URS/32/85 G/33/94 USA/24/567=	J/6	0/510=	
4197.2	ADD	URS/32/86			
4198	SUP MOD	G/33/94 USA/24/568 B/57/264		/32/87 0/511	E/36/3
4199	SUP MOD	G/33/94 USA/24/569 B/57/265		/32/88 0/512	E/36/4
4199.1	ADD	URS/32/89			

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4199A	ADD	USA/24/570			
4200	SUP MOD	G/33/94 USA/24/571 J/60/513	URS/32/90	E/36/5	B/57/266
4200A	ADD	USA/24/572			
4201	SUP MOD	G/33/94 USA/24/573	J/60/514 URS/32/91	E/36/6	B/57/267
4201A	ADD	USA/24/574			
4202	SUP MOD	G/33/94 USA/24/575 J/60/515	URS/32/92	E/36/7	B/57/268
4202.1	ADD	URS/32/95			
4202A	ADD	USA/24/576			
4203	SUP MOD	G/33/94 USA/24/577 J/60/516	URS/32/93	E/36/8	B/57/269
4203.1	SUP MOD MOD	G/33/94 USA/24/578= URS/32/94	B/57/271= URS/32/95	J/60/517=	
4203.2	ADD	URS/32/96			
4203A	ADD	USA/24/579			
4204	SUP MOD	G/33/94 USA/24/580 J/60/518	URS/32/97	E/36/9	B/57/270
4205	SUP MOD	G/33/94 USA/24/581 J/60/519	URS/32/98	E/36/10	B/57/272
4205.1	SUP MOD	G/33/94 USA/24/582	J/60/520		
4206	SUP MOD	G/33/94 USA/24/583 J/60/521	URS/32/99	E/36/11	B/57/273
4206A	ADD	USA/24/584			
4207	SUP MOD	G/33/94 USA/24/585 J/60/522	URS/32/100	E/36/12	B/57/274

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4208	SUP MOD	G/33/94 USA/24/586 J/60/523	URS/32/101	E/36/13	B/57/275
4209	SUP MOD	G/33/94 USA/24/587 J/60/524	URS/32/102	E/36/14	B/57/276
4209A	ADD	USA/24/588			
4210	SUP MOD	URS/32/103 J/60/525	G/33/94		
4211	SUP	G/33/94			
4212	MOD	G/33/111			
4212A	MOD	USA/24/589	G/33/112		

Section II Emploi des fr radiotélégrap		Section II Use of Freq Morse Radiotele		Sección II Utilización de las cuencias para radiotelegrafía Morse
4218	MOD	DDR/7= CAN/25/381=	CEPT-11/18/7 J/60/526=	= USA/24/590=
4237	MOD NOC	CEPT-11/18/8 CHN/63/5	CAN/25/382	URS/32/104
4237A	ADD	URS/32/105		
	SUP	G/33/113 (* y ca C1.		Cl.Région 2;titre C2. devient
4245*	SUP		luding title	Cl.Region 2;title C2. becomes
	(MOD)	G/33/115 (* inc.	/	Cl.Región 2;título C2. pasa
4246	MOD	J/60/527		
4249	MOD	J/60/528		
4253	MOD	G/33/116	E/36/15	•
4254	SUP MOD	G/33/117 E/36/16		
4255	MOD	G/33/118		
4256	MOD MOD	G/33/119 B/57/277=	J/60/529=	

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4257	SUP	G/33/120			
4258	MOD	G/33/121			
4259	MOD	G/33/122			
4260	MOD	E/36/17			,
4263	MOD	G/33/123			
4265	SUP	DNK+/8/20	G/33/124	E/42/18	
4271	MOD	G/33/125			
4272	MOD	G/33/126			
4273	MOD	G/33/127			
4275	MOD	G/33/128			
4277	MOD	G/33/129	E/36/18	B/57/278	J/60/530
4278	MOD	G/33/130			
4279	MOD	G/33/131			
4280	MOD	G/33/132	E/36/19		
4280.1	SUP	J/60/531			
4281	MOD	G/33/133			
4282	MOD	G/33/134			
4283	MOD	G/33/135			
4284	MOD	G/33/136			
4285	MOD	G/33/137			
4286	SUP	DNK+/8/21	G/33/138	E/42/19	
4288	SUP	G/33/139			
4289	SUP	G/33/139	J/60/532		
4290	SUP	G/33/139			
4291	(MOD) MOD	J/60/533 G/33/140	E/36/20	B/57/279	
4292	SUP	G/33/141	E/36/21		
4293-4296	SUP	G/33/142			

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ART. 60 (suite/cont.)

4297-4299	SUP	G/33/142	J/60/534
4300-4301	SUP	G/33/142	
4302	SUP	G/33/142	J/60/535
4303	SUP	G/33/142	
4304	SUP MOD	G/33/142 J/60/536	
4305	(MOD) MOD	G/33/143 E/36/22	
4306	MOD	G/33/144	B/57/280
4306A	MOD	G/33/145	
4307	MOD	G/33/146	
4308	MOD	G/33/147	
4309	MOD	G/33/148	

Section III Emploi des fra télégraphie à directe à bana	impression	1	Section III Use of Frequ Norro w Band Printing Tel	Direct-	Sección III Utilización de las frecuencias para telegrafía de impresión directa de banda estrecha
Titre/ Title/ Título	MOD	G/33	/149		
4313	MOD	G/33	/150		
4313A	ADD	G/33	/151		
4315	MOD	G/33	/152		
4315.1	SUP	URS/	32/106	G/33/153	
4315A	SUP MOD	G/33 J/60	•		
4315B-4315C	ADD	G/33	/154-G/33/15	55	
4316	SUP MOD		-11/18/9 25/383=	J/60/538=	
4318	MOD	G/33	/156		

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ART. 60 (suite/cont.)

4319	MOD	G/33/157	J/60/539		
4319A-4319C	ADD	G/33/158-G/33/160			
4321	MOD	URS/32/107	G/33/161	J/60/540	
4321A	SUP	G/33/162	E/42/20	J/60/541	
4321B	ADD .	G/33/163	CAN/25/498(Add.2)		
4321C-4321G	ADD	G/33/164-G/33/168			
4323	MOD	J/60/542			

Sec.IIIA Titre/Title/Titulo

G/33/169

Section IIIA Emploi des fréquences pour les systèmes de télégraphie à large bande, de télécopie, les systèmes spéciaux de transmission et les systèmes de transmission de données océanographiques

ADD

Section IIIA

Use of Frequencies for Wide-Band Telegraphy, Facsimile, Special Transmission Systems and Oceanographic Data Transmissions

Sección IIIA

Utilización de frecuencias para telegrafía de banda ancha, facsímil, sistemas especiales de transmisión y transmisiones de datos oceanográficos

4323A-4323N ADD G/33/170-G/33/183

Section IV Emploi des fréquences en radiotéléphonie		Section IV Use of Frequencies for Radiotelephony		Sección IV Utilización de las frecuencias para radiotelefonía	
4326	MOD	G/33/184=	F/48/1=		
4326A	ADD	F/48/2			
4328	MOD MOD	G/33/185 E/36/23=	B/57/281 J/60/543=		
4329	SUP	URS/32/108			
4330	SUP	URS/32/109			

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4	\$332	SUP MOD	G/33/186 URS/32/110	E/36/24		
4	4333	SUP	URS/32/111	G/33/186	E/36/25	
4	4334	SUP MOD	G/33/186 URS/32/112	E/36/25	-	
4	4335	SUP MOD	URS/32/113 G/33/187	E/36/25		
4	4336	SUP	URS/32/114	G/33/188	E/36/25	
4	4337	SUP MOD	URS/32/115 J/60/544	G/33/188	E/36/25	
4	342	MOD	USA/24/591			
4	4343	MOD MOD	DDR/7= CAN/25/384	CEPT-11/18/10 J/60/545	0=	USA/24/592=
4	4343.1	MOD	DDR/7= -	CEPT-11/18/1	1=	USA/24/593=
4	348	MOD MOD	DDR/7= CAN/25/385	CEPT-11/18/1	2=	USA/24/594=
4	349	SUP	DDR/7 CAN/25/386	CEPT-11/18/13		USA/24/595
4	351A	ADD	USA/24/596			
4	4357	MOD NOC	E/36/26 F/46/1			
4	4358	NOC	F/46/2			
4	4359	MOD	G/33/189=	F/46/3=		
4	\$360	MOD	URS/32/116	G/33/190	E/36/27	F/46/4
4	362	MOD	G/33/191=	F/46/5=		
4	4363	MOD	URS/32/117	G/33/192	E/36/28	F/46/6
4	4365	MOD	G/33/193=	F/46/7=		
4	4366	MOD	F/46/8			
4	4367	MOD	F/46/9			
4	4368	MOD	F/46/10			
4	4368A	ADD	G/33/194	F/46/11		
4	4368B	ADD	G/33/195			

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4370	MOD MOD	G/33/196= B/57/282	E/36/29=	J/60/546=	
4371	MOD MOD	G/33/197= B/57/283	E/36/30=	J/60/547=	
4373	MOD MOD	G/33/198= B/57/284	E/36/31=	J/60/548=	
4374	MOD MOD	G/33/199= B/57/285	E/36/32=	J/60/549=	
4375	MOD MOD	CAN/25/387 G/33/200=	URS/32/118 E/36/33=	B/57/286	J/60/550
4375.1	SUP MOD	URS/32/119 B/57/287			
4375.1A	ADD	URS/32/119A			
4375.2	SUP MOD MOD	URS/32/119 CAN/25/388= B/57/288	G/33/201=	J/60/551=	
4375.3	SUP MOD MOD	URS/32/119 CAN/25/389 G/33/202=	B/57/289 E/36/34=	J/60/552=	
4376	MOD MOD	CAN/25/390 G/33/203=	URS/32/120 E/36/35=	B/57/290	J/60/553
4376.2	SUP MOD MOD	URS/32/121 CAN/25/391 G/33/204=	B/57/293 E/36/37=	J/60/554	·
4376.2A	ADD	URS/32/122			
4377	SUP	DNK+/8/22	E/42/21		
4379	MOD MOD	CAN/25/392 G/33/205=	B/57/291 E/36/36=	J/60/555=	
4381	MOD	G/33/206			
4382	MOD	G/33/207			
4383	MOD	G/33/208			
4384	MOD MOD	G/33/20 9= B/57/292	E/36/38=	J/60/556=	
4386	MOD	DDR/7= CAN/25/393(=)	CEPT-11/18/14=	USA/24/597=	

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ART. 60 (suite/cont.)

4390	SUP MOD	CAN/25/394 E/42/22		
4393	MOD MOD MOD	DDR/7= CEPT-11/18/15 USA/24/598	CAN/25/395= 5*	J/60/557*
4394	MOD MOD	DDR/7= USA/24/599	CEPT-11/18/16= CAN/25/395A	
4405	MOD	G/33/210		
4409	MOD	G/33/211		
4413	MOD	G/33/212		
4415	MOD	G/33/213		

Sec.V Titre/<u>Title</u>/Titulo ADD DNK+/8/23=

ADD

E/42/23=

Section VEmploi des fréquences pour l'appel sélectif numérique

Section V Use of Frequencies for Digital Selective Calling

Sección V Utilización de las frecuencias para llamada selectiva digital

4417-4421F

DNK+/8/24-DNK+/8/69

E/42/24-E/42/81

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	celative à lectif dans le pile maritime		Calling	ARTICULO 62 Procedimiento de llamada selectivaa en el servicio móvil marítimo
Section I Généralités	3	Section I General		Sección I Generalidades
4665 -	ADD	J/60/558		•
Section II Système séq une seule f		Section I Sequentia Frequency		Sección II Sistema secuencial de una sola frecuencia
4668A	NOC	USA/24/600		
4677	MOD	J/60/559		
4679A	MOD	G/33/214	J/60/560	
Section III Système d'a numérique	: .ppel sélectif	Section I Digital Se Calling Sy	elective	Sección III Sistema de llamada selectiva digital
4680A	ADD	E/42/82		
4681	MOD MOD	DNK+/8/70= J/60/561	E/42/83=	
4681A	MOD MOD	CAN/25/396= G/33/215	J/60/562=	
4681A.1	SUP	CAN/25/397	G/33/216	J/60/563
4681A.2	ADD	G/33/217		
4682	MOD	URS/32/123(=)	G/33/218(=)	
4683	MOD MOD	ARG/5/72 = URS/32/124	USA/24/601= G/33/219	J/60/564
4683.1	ADD	G/33/221		
4684	MOD MOD	ARG/5/73= URS/32/125	USA/24/602= G/33/220	J/60/565
4684.1	ADD	G/33/221		
4685	MOD	USA/24/603	G/33/222	

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ART. 62 (suit	ce/cont.)	
4685.1	ADD	G/33/223
4685.2	ADD	G/33/223
4685.3	ADD	G/64/1 (voir également/ <u>see also</u> /véase también ADD Res.2:G/64/2)
4686	ADD	DNK+/8/71= E/42/84=
Méthode d'app	bel	Method of Calling Método de llamada
4686 A- 4686H	ADD	DNK+/8/72-DNK+/8/79
4686A-4686K	ADD	E/42/85-E/42/95

4687	ADD	DNK+/8/80=	E/42/96=	
Accusés de des appels	réception	Acknowled of Calls	gements	Acuse de recibo de las llamadas
4688-4689C	ADD	DNK+/8/81-DN	K+/8/91	
4688-4689H	ADD	E/42/97-E/42	/115	

4690

ADD DNK+/8/92(=) E/42/116(=)

Réception d'accusés de réception et préparation pour l'échange du trafic	Reception of Acknowledgements and Preparation for Exchange of Traffic	Preparación para el intercambio del tráfico

4690A-4690H ADD

DNK+/8/93-DNK+/8/100

E/42/117-E/42/124

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ARTICLE 63 Procédure générale radiotélégraphique dans le service mobile maritime	ARTICLE 63 General Radiotelegraph Procedure in the Maritime Mobile Service	ARTICULO 63 Procedimiento general radiotelegráfico en el servicio móvil marítimo
Titre/ <u>Title</u> /Título MOD	G/33/224= J/6	60/566=
Section I Dispositions générales	Section I General Provisions	Sección I Disposiciones generales
4710 MOD J	/60/567	
Section II Opérations préliminaires	Section II Preliminary Operations	Sección II Operaciones preliminares
4773 · MOD J	7/60/568	
Section III Appels en radiotélégraphie	Section III Calls by Radiotelegraphy	Sección III Llamadas en radiotelegrafía
Titre/ <u>Title</u> /Tftulo MOD	J/60/569	
4719 SUP J	/60/570	
4746 SUP J	/60/571	

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ARTICLE 64 ARTICLE 64 ARTICULO 64 Procedimientos generales Procédures générales General Procedures for applicables à la télégraphie Narrow-Band Directaplicables a la telegrafía à impression directe à bande Printing Telegraphy in de impresión directa de étroite dans le service the Maritime Mobile banda estrecha en el mobile maritime Service servicio móvil marítimo Section I Section I Sección I Généralités General Generalidades 4842 MOD J/60/572 4842A ADD J/60/573 Section II Section II Sección II Procedimientos para la Procédures applicables à Procedures for l'exploitation manuelle Manual Operation explotación manual 4851 MOD URS/32/126(=) J/60/574(=) 4853 MOD URS/32/127(=) J/60/575(=) 4859 MOD URS/32/128(=) J/60/576(=) Section III Section III Sección III Procédures applicables à Procedures for Procedimientos para la l'exploitation automatique Automatic Operation explotación automática 4862 MOD URS/32/129(=) J/60/577(=) 4865 URS/32/130(=) J/60/578(=) MOD Section IV Sección IV Section IV Message Format Formato del mensaje Forme des messages 4873 MOD G/33/225 G/33/226 4874 SUP 4875 SUP G/33/226

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ARTICULO 65 ARTICLE 65 ARTICLE 65 General Radiotelephone Procedimiento general Procédure générale radiotelefónico en el radiotéléphonique dans Procedure in the servicio móvil marítimo le service mobile maritime Maritime Mobile Service Section I Sección I Section I **General Provisions** Disposiciones generales . Dispositions générales MOD 4903 J/60/579 4904 MOD J/60/580 4908 MOD G/33/227 4910 MOD G/33/228 F/48/3 Section III Section III Sección III Calls by Radiotelephony Appels en radiotéléphonie 4921 SUP J/60/581 Section IV Section IV Sección IV Méthode d'appel, réponse à Method of Calling, Reply Procedimiento de llamada, to Calls and Signals respuesta a la llamada y l'appel et signaux préparatoires au trafic Preparatory to Traffic señales preparatorias del tráfico Titre/Title/Título MOD DNK + / 8 / 101 =E/42/126= 4951 MOD DNK+/8/102= E/42/127= 4959 MOD ARG/5/74 USA/24/604 4960 MOD ARG/5/75= USA/24/605= ARG/5/76 4961A ADD USA/24/606 4962 ARG/5/77= (MOD) USA/24/607= 4963 (MOD) ARG/5/78= USA/24/608= 4964 MOD ARG/5/79 USA/24/609 MOD ARG/5/80 USA/24/610 4965 4966 MOD ARG/5/81 USA/24/611 4968 MOD G/33/229

4969

MOD

G/33/230

Llamadas en radiotelefonía

ART. 65 (suite/cont.)

4970	MOD	G/33/231		
4972	MOD	G/33/232		
4986	MOD MOD	DNK+/8/103= G/33/233	E/42/128=	
4994	MOD	G/33/234		
4995	MOD	G/33/235		
4998	MOD	G/33/236		
4999	MOD	G/33/237		
5002	MOD	DNK+/8/104=	E/42/129=	
5006	MOD	G/33/238		
Section VII Essais		Section VI Tests	П	Section VII Pruebas
5060	MOD	G/33/239		
5061	SUP	DDR/7	CEPT-11/18/17	USA/24/612 CAN/25/398
Sec. VIII T	itre/ <u>Title</u> /1	lítulo	ADD	DNK+/8/105= E/42/130=

Section VIII

Appel, accusé de réception des appels et écoulement du trafic lorsque les techniques d'appel sélectif numérique sont utilisées

Section VIII Calling, Acknowledgement of Calls, and Forwarding of Traffic when Using Digital Selective Calling Techniques

Sección VIII Llamada, acuse de recibo de las llamadas y ulterior intercambio de tráfico mediante técnicas de llamada selectiva digital

5062-5069 ADD DNK+/8/106-DNK+/8/113= E/42/131-E/42/138=

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ARTICLE 66 Correspondan le service m et dans le s maritime par	obile marit ervice mobi	ime	the Mari Service	66 Correspondence in itime Mobile and the Maritime Satellite Service	ARTICULO 66 Correspondencia pública en el servicio móvil marítimo y en el servicio móvil marítimo por satélite
Titre/ <u>Title</u> / Título	(MOD)	G/33	/240		
A.66 ²	ADD	G/33,	/241		
Section II Autorité cha la comptabil		·	Section Accounti	II ing Authority	Sección II Autoridad encargada de la contabilidad
5086	MOD	G/33,	/242		
Section III Comptabilité			Section Accounti		Sección III Contabilidad
5092	SUP	G/33,	/243		
5093	SUP MOD	G/33, ARG/1	/244 5/82=	USA/24/613=	
5095	MOD	ARG/	5/83=	USA/24/614=	
5096	MOD NOC	USA/2 ARG/2	24/615 5/84	G/33/245	
5097	MOD NOC	USA/2 ARG/2	24/616 5/85	G/33/246	
5098	MOD NOC	USA/2 ARG/2	24/617 5/86	G/33/247	
5099	MOD	G/33,	/248		
Section IV Paiement des	soldes		Section Payment	IV of Balances	Sección IV Pago de los saldos
Titre/ <u>Title</u> / Título	SUP	G/33/	/249		
5100	SUP	G/33/	/249A		
Section V Archives			Section Archives		Sección V Archivos
Titre/ <u>Title</u> / Título	SUP	G/33/	/250		
5101-5102	SUP	G/33/	/251		

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CHAPITRE XII Service mobile terrestre	CHAPTER XII Land Mobile Service	CAPITULO XII Servicio móvil terrestre		
Titre/ <u>Title</u> /Título MOD	ARG/5/87= TUR/59/65=	USA/24/618= URS/32/131= PRG/61/131=		
ARTICLE 67 Conditions à remplir par les stations mobiles du service mobile terrestre	ARTICLE 67 Conditions to Be Observed by Mobile Stations in the Lan Mobile Service			
Titre/ <u>Title</u> /Título MOD	ARG/5/88= TUR/59/66=	USA/24/619= URS/32/132(=) PRG/61/132=		
Sec. I Titre/ <u>Title</u> /Títul	.o ADD ARG/5/89= TUR/59/67=	USA/24/620= URS/32/132(=)		
	Section I Service mobile terr	estre		
	Section I Land Mobile Servi	се		
	Sección I Servicio móvil terr	estre		
5128 MOD	PRG/61/133			
5129 MOD	PRG/61/134			
5130-5131 <u>NOC</u>	PRG/61/135			
5132-5133 SUP	PRG/61/136			
Sec. II Titre/ <u>Title</u> /Tftul	o ADD ARG/5/90= TUR/59/68=	USA/24/622= URS/32/133(=)		
Section II Service mobile terrestre par satellite				
Section II Land Mobile-Satellite Service				
Sección II				

Servicio móvil terrestre por satélite

5134	ADD ADD	ARG/5/91(=) URS/32/134	USA/24/623=	TUR/59/69=
5135	ADD	ARG/5/92=	USA/24/624=	TUR/59/70=
5136	ADD	ARG/5/93=	USA/24/625=	TUR/59/71=
5137	ADD	ARG/5/94(=)	USA/24/626(=)	

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CHAP.XIIA/CAP.XIIA Titre/Title/Titulo ADD

USA/24/627-USA/24/628

CHAPITRE XIIA Service mobile par satellite

CHAPTER XIIA Mobile-Satellite Service

CAPITULO XIIA Servicio móvil por satélite

ART. 68A Titre/Title/Titulo

USA/24/629-USA/24/630

ARTICLE 68A Conditions que doivent remplir les stations mobiles du service mobile par satellite

ADD

ARTICLE 68A

Conditions to be Observed by Mobile Stations in the Mobile-Satellite Service

ARTICULO 68A

Condiciones de funcionamiento de las estaciones móviles del servicio móvil por satélite

5170-5173 ADD USA/24/631-USA/24/634

PAGE LAISSEE EN BLANC INTENTIONNELLEMENT

PAGE INTENTIONALLY LEFT BLANK

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APPENDICE 7 Tableau des tolérances de fréquence des émetteurs

APPENDIX 7 Table of Transmitter Frequency Tolerances

APENDICE 7 Cuadro de tolerancias de frecuencias de los transmisores

En-tête du Tableau <u>Table Heading</u> Encabezamiento del Cuadro

MOD DDR/7/1

Tableau/		Voir Note après DDR/7/11
Table/	Col. 2	See Note after DDR/7/11
Cuadro		Véase Nota después de DDR/7/11

Bande/Band/Banda: 1 606.5 kHz (1605 kHz Region 2) à/to/a 4 000 kHz

- 2. Stations terrestres <u>Land Stations</u> MOD DDR/7/2 D/30/75-D/30/76 Estaciones terrestres
- 3. Stations mobiles : a) stations de navire
Mobile Stations : a) Ship StationsMODARG/5/95D/30/77Estaciones móviles: a) Estaciones de barco

Bande/Band/Banda: 4 MHz à/to/a 29.7 MHz

- 2. Stations terrestres : a) stations côtières MOD D/30/78 Land Stations : a) Coast Stations ARG/5/96-ARG/5/98 Estaciones terrestres: a) Estaciones costeras
- 3. Stations mobiles : a) stations de navire
Mobile Stations : a) Ship StationsMODD/30/79Estaciones móviles: a) Estaciones de barco

Bande/Band/Banda: 100 MHz à/to/a 470 MHz

- 2. Stations terrestres : a) stations côtières MOD DDR/7/3 Land Stations : a) Coast Stations NOC D/30/80 Estaciones terrestres: a) Estaciones costeras
- 3. Stations mobiles : a) stations de navire et stations d'engin de sauvetage <u>Mobile Stations : a) Ship Stations and</u> <u>Survival Craft Stations</u> Estaciones móviles : a) Estaciones de barco y estaciones de embarcaciones o dispositivos de salvamento
 MOD DDR/7/4 URS/32/135

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AP. 7 (suite/cont.)

Renvois du tableau des tolérances de fréquence des émetteurs Notes in the Table of Transmitter Frequency Tolerances Notas del Cuadro de tolerancias de frecuencias de los transmisores

.

Note/Note/Nota:

					•
1)	MOD	DDR/7/5 TUR/59/72	ARG/5/99 CHN/63/6	USA/24/654	URS/32/136
2)	MOD	DDR/7/6	URS/32/137		
3)	MOD	DDR/7/7	URS/32/138		
4)	MOD	ARG/5/100 TUR/59/73	DDR/7/8	USA/24/655	URS/32/139
7)	MOD	DDR/7/9			
·11)	MOD	DDR/7/10			
27)	SUP	DDR/7/11	URS/32/140		
37)	ADD	D/30/82			
38)	· ADD	D/30/83			

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APPENDICE 9 Documents de service

APPENDIX 9 Service Documents

APENDICE 9 Documentos de servicio

Liste V Nomenclature des stations de navire		List V List of Ship Stations	Lista V Nomenclátor de las estaciones de barco
Col. 4 b)	MOD MOD	USA/24/656= CAN/25/399	TUR/59/74=

Liste VIList VILisNomenclature des stationsList of Radiodetermi-Nomde radiorepérage et desnation and Specialeststations effectuant desService Stationsnacservices spéciauxque

Lista VI Nomenclátor de las estaciones de radiodeterminación y de las estaciones que efectúan servicios especiales

12. Stations terriennes fixes du service de radionavigation maritime par satellite Fixed earth stations in the maritime radionavigation-satellite service Estaciones terrenas fijas del servicio de radionavegación marítima por satélite

Titre/Title/Título MOD USA/24/657

- Col. 3a, 3b, 3c, 4a, 4b, 7 MOD USA/24/657
- 13. Stations spatiales du service de radionavigation maritime par satellite Space stations in the maritime radionavigation-satellite service Estaciones espaciales del servicio de radionavegación marítima por satélite

Titre/Title/Titulo MOD USA/24/658

Col. 2a, 2b, 2c, 3a, 3b, 7 MOD USA/24/658

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APPENDICE 10 Notations utilisées dans les documents de service

APPENDIX 10 Service Documents Symbols

APENDICE 10 Símbolos empleados en los documentos de servicio

Symboles/Symbols/Simbolos

BR	ADD	B/57/294	
EF	ADD	USA/24/659=	TUR/59/75=

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APPENDICE 11

Documents dont les stations de navire et les stations d'aéronef doivent être pourvues (voir les articles 24, 26, 44, 46, 49, 55, 57, 59 et l'appendice 9)

voir res arcicles 24, 20, 44, 40, 49, 55, 57, 59 et r appendice 9

APPENDIX 11

Documents with Which Ship and Aircraft Stations Shall Be Provided (See Articles 24, 26, 44, 46, 49, 55, 57, 59 and Appendix 9)

APENDICE 11

Documentos de que deben estar provistas las estaciones de barco y de aeronave (Véanse los artículos 24, 26, 44, 46, 49, 55, 57, 59 y el apéndice 9)

En-tête/Heading/Encabezamiento MOD D/30/84 J/60/582

Section I Stations de navire obligatoirement pourvues d'une installation radiotélégraphique en vertu d'un accord international	a Radiotelegraph Installation is Required by International		Sección I Estaciones de barco provistas obligatoriamente d de una instalación radio- telegráfica en cumplimient de un acuerdo internaciona	
Titre/ <u>Title</u> /Título	MOD	USA/24/660= J/60/583=	D/30/84A(=)	G/33/253=
3.	MOD MOD	USA/24/661= D/30/85	G/33/254=	,
3.a) - 3.g)	SUP	D/30/86-D/30/92	2	
8.	MOD	USA/24/662		

Section II	Section I		Sección II
Autres stations radio-	Other Shi		Las demás estaciones radio-
télégraphiques de navire	telegraph		telegráficas de barco
Titre/ <u>Title</u> /Título	MOD	G/33/255=	J/60/584=

Section III Section III Sección III Stations de navire Ship Stations for Which Estaciones de barco obligatoirement pourvues a Radiotelephone provistas obligatoriamente d'une installation Installation Is Required de una instalación radioradiotéléphonique en vertu by International telefónica en cumplimiento d'un accord international Agreement de un acuerdo internacional 3. MOD USA/24/663= G/33/256= MOD D/30/93 3. a) SUP D/30/94

D/30/95

G/33/257

3.b)

SUP

USA/24/664

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AP. 11 (suite/cont.)

3. c) SUP D/30/96(MOD) USA/24/665= G/33/258=3. d) SUP D/30/97

(MOD) USA/24/666= G/33/259=

Sec. VA Titre/Title/Título ADD G/33/260

Section VA Stations de navire conformes aux dispositions relatives aux communications automatiques

Section VA Ship Stations Complying with the Provisions for Automated Communications

> Sección VA Estaciones de barco que cumplen las disposiciones sobre comunicaciones automatizadas

ADD G/33/261-G/33/273

Sec. VA Titre/Title/Tftulo ADD J/60/585

Section VA Stations à bord de navires participant au SMDSM

Section VA Stations on Board Ships Participating in the GMDSS

Sección VA Estaciones a bordo de los barcos que participan en el SMSSM

ADD J/60/586-J/60/593

Section VI Stations d'aéronef	Section Aircraf	VI t Stations	Sección VI Estaciones de aeronave
Titre/ <u>Title</u> /Titulo	MOD	J/60/594	
2.	SUP	CAN/25/400	
3.	(MOD)	CAN/25/401	

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AP. 11 (suite/cont.)

Sec. VII Titre/Title/Tftulo ADD

USA/24/667= TUR/59/76=

Section VII Navires répondant aux besoins du SMDSM

Section VII Ship Meeting the Requirement of the GMDSS

Sección VII

Barcos que cumplen los requisitos del SMSSM

ADD	USA/24/668-USA/24/669=	TUR/59/77-TUR/59/78=
ADD	USA/24/670	TUR/59/79
ADD	USA/24/671-USA/24/677=	TUR/59/80-TUR/59/85=

APPENDICE 12 Vacations des stations de navire classées dans la deuxième ou dans la troisième catégorie

APPENDIX 12 Hours of Service for Ship Stations of the Second and Third Categories

APENDICE 12 Horas de servicio de las estaciones de barco clasificadas en la segunda y tercera categorías

NOC DDR/7/12

MOB-87/DT/1A-F/E/S

APPENDICE 13

Abréviations et signaux divers à employer dans les communications radiotélégraphiques, à l'exception de celles du service mobile maritime

APPENDIX 13

Miscellaneous Abbreviations and Signals to Be Used in Radiotelegraphy Communications Except in the Maritime Mobile Service

APENDICE 13

Abreviaturas y señales diversas que habrán de utilizarse en las comunicaciones radiotelegráficas con excepción de las del servicio móvil marítimo

> NOC DDR/7/13

APPENDICE 14 Abréviations et signaux à employer dans les radiocommunications du service mobile maritime

APPENDIX 14 Miscellaneous Abbreviations and Signals to Be Used for Radiocommunications in the Maritime Mobile Service

APENDICE 14 Abreviaturas y señales diversas que habrán de utilizarse para las radiocomunicaciones en el servicio móvil marítimo

DDR/7/14 NOC

Section II Abréviations et signaux divers		Section II Miscellaneous Abbreviations and Signals	Sección II Abreviaturas y señales diversas
DSC	ADD	CHN/63/7	•
MSI	ADD	CHN/63/8	
NBDP	ADD	CHN/63/9	
RCC	ADD	CHN/63/10	
SAR	ADD	CHN/63/11	

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APPENDICE 16 Voies radiotéléphoniques dans les bandes du service mobile maritime comprises entre 4 000 kHz et 23 000 kHz

APPENDIX 16 Channelling of the Maritime Mobile Radiotelephone Bands Between 4 000 kHz and 23 000 kHz

APENDICE 16 Canales radiotelefónicos en las bandas del servicio móvil marítimo entre 4 000 kHz y 23 000 kHz

	SUP	CEPT-13/20/1		
Titre/ <u>Title</u> /Titulo	MOD MOD	CAN/25/402 URS/32/141=	J/60/595=	
1. Sec. C-1, C-2	SUP MOD	URS/32/142 USA/24/678		
5.	(MOD) MOD	USA/24/679 CAN/25/402A J/60/596	URS/32/143	B/57/295
54.	MOD	USA/24/680 B/57/296	CAN/25/403 J/60/597	URS/32/144
5B.	ADD	J/60/598		
6. a)	MOD	USA/24/681	URS/32/145	
6. b)	MOD MOD	USA/24/682= CAN/25/404	J/60/599 = URS/32/145	
7.	SUP	URS/32/146		·

Section A

Table des fréquences d'émission à bande latérale unique pour l'exploitation duplex (voie à deux fréquences), en kHz

Section A Table of Single-Sideband Transmitting Frequencies for Duplex (Two-Frequency) Operation (in kHz)

Sección A Cuadro de frecuencias de transmisión dúplex en banda lateral única (canales de dos frecuencias), en kHz

Sec. A	SUP MOD	B/57/297 (voir/see/véase: ADD B/57/298) USA/24/683 CAN/25/405 URS/32/149 J/60/600
Sec. AA	ADD	B/57/298

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AP. 16 (suite/cont.)

Section B

Table des fréquences d'émission à bande latérale unique pour l'exploitation simplex (voies à une fréquence) et pour l'exploitation à bandes croisées entre navires (deux fréquences), en kHz

> Section B Table of Single-Sideband Transmitting Frequencies for Simplex (Single-Frequency) Operation and for Intership Cross-Band (Two-Frequency) Operation (in kHz)

> > Sección B

Cuadro de frecuencias de transmisión símplex en banda lateral única (canales de una frecuencia) y de frecuencias de transmisión entre barcos en banda cruzada (dos frecuencias), en kHz

Sec. B	SUP MOD	B/57/299 (voir/ <u>see</u> /véase: CAN/25/406 URS/32/150	B/57/300) J/60/601
Sec. BA	ADD	B/57/300	

Section C-1

Table des fréquences d'émission à bande latérale unique (en kHz) pour les stations de navire fonctionnant dans la bande 4 000 - 4 063 kHz utilisée en partage avec le service fixe

Section C-1 Table of Single-Sideband Transmitting Frequencies (in kHz) for Ship Stations in the Band 4 000 - 4 063 kHz Shared with the Fixed Service

Sección C-l

Cuadro de frecuencias de transmisión en banda lateral única (en kHz) para estaciones de barco en la banda 4 000 - 4 063 kHz compartida con el servicio fijo

Sec. C-l	SUP	URS/32/147	
	NOC	CAN/25/407	B/57/301

Section C-2

Table des fréquences d'émission à bande latérale unique (en kHz) pour les stations de navire et les stations côtières fonctionnant dans la bande 8 100 - 8 195 kHz utilisée en partage avec le service fixe

Section C-2 Table of Single-Sideband Transmitting Frequencies (in kHz) for Ship and Coast Stations in the Band 8 100 - 8 195 kHz Shared with the Fixed Service

Sección C-2

Cuadro de frecuencias de transmisión en banda lateral única (en kHz) para estaciones de barco y costeras en la banda 8 100 - 8 195 kHz compartida con el servicio fijo

Sec. C-2	SUP	URS/32/148	
	NOC	CAN/25/408	B/57/302

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APPENDICE 17

Caractéristiques techniques des émetteurs à bande latérale unique utilisés dans le service mobile maritime pour la radiotéléphonie dans les bandes comprises entre l 606,5 kHz (l 605 kHz Région 2) et 4 000 kHz et entre 4 000 kHz et 23 000 kHz

APPENDIX 17

Technical Characteristics of Single-Sideband Transmitters Used in the Maritime Mobile Service for Radiotelephony in the Bands Between 1 606.5 kHz (1 605 kHz Region 2) and 4 000 kHz and Between 4 000 kHz and 23 000 kHz

APENDICE 17

Características técnicas de los transmisores de banda lateral única utilizados para la radiotelefonía en el servicio móvil marítimo, en las bandas comprendidas entre l 606,5 kHz (l 605 kHz Región 2) y 4 000 kHz y entre 4 000 kHz y 23 000 kHz

	NOC	CAN/25/409		
Titre/ <u>Title</u> /Titulo	MOD	USA/24/684Ø J/60/	/602	
l. a)	MOD	DDR/7/15-DDR/7/19 URS/32/151	USA/24/684 J/60/603	-USA/24/690
4.	MOD	USA/24/691= J/6	50/604=	
4. a)	SUP MOD	USA/24/692 J/6 D/30/98	50/604A	
4. b)	SUP MOD	USA/24/693-USA/24/ D/30/98 DDR	/699 R/7/20-DDR/7/	J/60/604B 24
6. a)	SUP	USA/24/700-USA/24/	702	J/60/605
6. b)	SUP	USA/24/703 J/6	60/605A	
Tableau/ <u>Table</u> /Cuadro	MOD	USA/24/704 J/6	50/605B	

Note/Nota

1	SUP	USA/24/705	J/60/606
2	(MOD) ADD	USA/24/706= USA/24/707	J/60/606A=
3	(MOD)	J/60/606B	
4	(MOD)	J/60/606C	
7	ADD	J/60/607	

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APPENDICE 18 Tableau des fréquences d'émission pour les stations du service mobile maritime dans la bande 156 - 174 MHz

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APPENDIX 18

Table of Transmitting Frequencies in the Band 156 - 174 MHz for Stations in the Maritime Mobile Service

APENDICE 18 Cuadro de frecuencias de transmisión para estaciones del servicio móvil marítimo en la banda 156 - 174 MHz

Tableau/Table/Cuadro

voie/channel/canal

.

70	MOD MOD	USA/24/708 G/33/274=	URS/32/152 J/60/608=	B/57/303
13	MOD	USA/24/708	CAN/25/410	J/60/609
75	MOD	G/33/275=	J/60/610=	
76	MOD	G/33/276=	J/60/611=	
77	MOD MOD	USA/24/708= B/57/304	CAN/25/410=	
18) 19) 79) 20) 80) 21) 22)	MOD	USA/24/709=	TUR/59/86=	·
89-95	ADD	USA/24/710=	TUR/59/87=	

REMARQUES RELATIVES AU TABLEAU/NOTES REFERRING TO THE TABLE/ NOTAS REFERENTES AL CUADRO

e)	MOD	USA/24/711		
f)	MOD	USA/24/712=	TUR/59/88=	
j)	NOC MOD	CEPT-12/19/1 B/57/305		
k)	SUP MOD	G/33/277 USA/24/713	E/42/140 J/60/612	
n)	MOD	USA/24/714= J/60/613=	CAN/25/411=	TUR/59/89=

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AP. 18 (suite/cont.)

p)	MOD	DNK+/8/114 URS/32/153 B/57/306	USA/24/715 G/33/278 J/60/614	CAN/25/412 E/42/141
(p	ADD	USA/24/716	B/57/307	
qa)	ADD	CAN/25/413		
r)	ADD	USA/24/717=	TUR/59/90=	

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APPENDICE 19

Caractéristiques techniques des émetteurs et des récepteurs utilisés dans le service mobile maritime dans la bande 156 - 174 MHz

APPENDIX 19

Technical Characteristics for Transmitters and Receivers Used in the Maritime Mobile Service in the Band 156 - 174 MHz

APENDICE 19

Características técnicas de los transmisores y receptores utilizados en el servicio móvil marítimo en la banda 156 - 174 MHz

Titre/ <u>Title</u> /Tftulo	MOD	URS/32/154=	G/33/279=	J/60/615=
3.	MOD	URS/32/155		
6.	MOD	J/60/616		
7.	ADD	USA/24/718 J/60/617	URS/32/156	F/48/4
8.	ADD	USA/24/719	J/60/618	
9.	ADD	USA/24/720	J/60/619	

APPENDICE 20 Caractéristiques des appareils utilisés pour les communications de bord dans les bandes de fréquences comprises entre 450 MHz et 470 MHz

APPENDIX 20

Characteristics of Equipment Used for On-Board Communication in the 450 - 470 MHz Bands

APENDICE 20

Características de los equipos utilizados para las comunicaciones a bordo en las bandas de frecuencias comprendidas entre 450 MHz y 470 MHz

	NOC	DDR/7/25
8.A	ADD	URS/32/157
10.	ADD	USA/24/721

- 97 -MOB-87/DT/1A-F/E/S

APPENDICE 25

Plan d'allotissement de fréquences aux stations côtières radiotéléphoniques fonctionnant dans les bandes exclusives du service mobile maritime entre 4 000 kHz et 23 000 kHz

APPENDIX 25

Frequency Allotment Plan for Coast Radiotelephone Stations Operating in the Exclusive Maritime Mobile Bands Between 4 000 kHz and 23 000 kHz

APENDICE 25

Plan de adjudicación de frecuencias a las estaciones costeras radiotelefónicas que funcionan en las bandas exclusivas del servicio móvil marítimo comprendidas entre 4 000 kHz y 23 000 kHz

MOD (voir/see/véase) USA/24 URS/32/158

Note a)/Nota a)

MOD

J/60/620

Col.l du Plan d'allotissement de fréquences/ Col.l of Frequency Allotment Plan/ Col.l del Plan de adjudicación de frecuencias

MOD

J/60/621

- 98 -MOB-87/DT/1A-F/E/S

APPENDICE 26

Plan d'allotissement des fréquences pour le service mobile aéronautique et renseignements s'y rapportant

APPENDIX 26 Frequency Allotment Plan for the Aeronautical Mobile Service and Related Information

APENDICE 26 Plan de adjudicación de frecuencias del servicio móvil aeronáutico e información conexa

PARTIE II/PART II/PARTE II

Section I/Section I/Sección I

ARTICLE 1/ARTICLE 1/ARTICULO 1

Zone de passage des lignes aériennes mondiales principales - EUROPE (ZLAMP-EU) Major World Air Route Area - EUROPE (MWARA-EU) Zonas de paso de Rutas Aéreas Mundiales Principales - EUROPA (ZRMP-EU)

e

MOD DDR/7/26

ARTICLE 2/ARTICLE 2/ARTICULO 2

Zone des lignes aériennes régionales et nationales - 1 (ZLARN-1) Regional and Domestic Air Route Area - 1 (RDARA-1) Zona de rutas aéreas regionales y nacionales - 1 (ZRRN-1)						
Subdivision de	zone	1B./Sub-Area	<u>1B.</u> /Sub-zona	18.	MOD	DDR/7/27
Subdivision de	zone	lC./Sub-Area	1C./Sub-zona	1C.	MOD	DDR/7/28
Subdivision de	zone	lE./Sub-Area	lE./Sub-zona	lE.	MOD	DDR/7/29

PARTIE IV/PART IV/PARTE IV

a) Liste alphabétique des abréviations désignant les pays Alphabetical List of Country Designations Lista alfabética de abreviaturas de países

D MOD DDR/7/30

DDR ADD DDR/7/31

TUR ADD TUR/59/91

(81) SUP DDR/7/32

2. PLAN DES FREQUENCES (OR)/(OR) FREQUENCY PLAN/PLAN DE FRECUENCIAS (OR)

MOD DDR/7/33 TUR/59/92

- 99 -MOB-87/DT/1A-F/E/S

Appendice 27A/Appendix 27A/Apéndice 27A

ADD J/60/622

APPENDICE 27A Fréquences de la bande 117,975 - 137 MHz pour les stations du service mobile aéronautique (R) (voir Article 50, N° 3632A)

> APPENDIX 27A Frequencies in the Band 117.975 - 137 MHz for Stations in the Aeronautical Mobile (R) Service (See Article 50, No. 3632A)

APENDICE 27A Frecuencias de la banda 117,975 - 137 MHz para las estaciones del servicio móvil aeronáutico (R) (Véase el Artículo 50, N.º 3632A) - 100 -MOB-87/DT/1A-F/E/S

APPENDICE 31

Tableau des fréquences à utiliser dans les bandes attribuées en exclusivité au service mobile maritime entre 4 MHz et 27,5 MHz

APPENDIX 31

Table of Frequencies to Be Used in the Bands Between 4 MHz and 27.5 MHz Allocated Exclusively to the Maritime Mobile Service

APENDICE 31

Cuadro de las frecuencias utilizables en las bandas atribuidas exclusivamente al servicio móvil marítimo entre 4 MHz y 27,5 MHz

SUP CEPT-13/20/1 (voir/see/véase CEPT/13/20/2)

Tableau/Table/Cuadro ADD USA/24/722

Tableau des fréquences à utiliser dans les bandes des 4 et 8 MHz attribuées au service mobile maritime et exploitées en partage avec les services fixes

Table of Frequencies to Be Used in the 4 MHz and 8 MHz Maritime Mobile Bands Shared With the Fixed Services

Cuadro de frecuencias utilizables en las bandas del servicio móvil marítimo de 4 MHz y 8 MHz compartidas con los servicios fijos

Tableau des fréquences à utiliser dans les bandes attribuées en exclusivité au service mobile maritime entre 4 MHz et 23 MHz (kHz)

Table of Frequencies to be Used in the Bands Between 4 MHz and 23 MHz Allocated Exclusively to the Maritime Mobile Service (kHz)

Cuadro de las frecuencias utilizables en las bandas atribuidas exclusivamente al servicio móvil marítimo entre 4 MHz y 23 MHz (kHz)

Titre/Title/Tftulo MOD	USA/24/723	CAN/25/414	J/60/623
------------------------	------------	------------	----------

Tableau/<u>Table</u>/Cuadro SUP B/57/308 (remplacé par/<u>replaced by</u>/ sustituido por ADD: B/57/309) MOD USA/24/724 CAN/25/414 URS/32/159 J/60/631

Tableau des fréquences à assigner aux stations de navire dans la bande des 25 MHz

Table of Frequencies Assignable to Ship Stations in the 25 MHz Band

Cuadro de las frecuencias asignables a las estaciones de barco en la banda de 25 MHz

SUP USA/24/724A

- 101 -MOB-87/DT/1A-F/E/S

AP. 31 (suite/cont.)

Notes/Notas

b)	MOD	J/60/624
c)	SUP	J/60/625
d)	(MOD)	J/60/626
e)	(MOD)	J/60/627
g)	(MOD)	J/60/628
h)	(MOD)	J/60/629
i)	MOD)	J/60/630

Appendice 31A/Appendix 31A/Apéndice 31A

CEPT-13/20/2-CEPT-13/20/9

APPENDICE 31A

Tableaux des fréquences à utiliser dans les bandes attribuées en exclusivité au service mobile maritime entre 4 000 kHz et 27 500 kHz

ADD

(voir l'article 60 et les Résolutions B à F)

APPENDIX 31A

Tables of frequencies to be Used in the Bands Between 4 000 kHz and 27 500 kHz Allocated Exclusively to the Maritime Mobile Service

(see Article 60 and Resolutions B to F)

APENDICE 31A

Cuadro de las frecuencias utilizables en las bandas atribuidas exclusivamente al servicio móvil marítimo entre 4 000 kHz y 27 500 kHz

(véanse el artículo 60 y las Resoluciones B a F)

- 102 -MOB-87/DT/1A-F/E/S

Appendice [UK/A]/Appendix [UK/A]/Apéndice [UK/A] ADD G/33/252

APPENDICE [UK/A]

Disposition des voies radiotéléphoniques attribuées dans la Région l aux stations du service mobile maritime dans les bandes 415 - 435 kHz, 435 - 495 kHz, 505 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz et 2 045 - 2 160 kHz (voir l'Article 60)

APPENDIX [UK/A]

Channelling Arrangements in 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 (see Article 60)

APENDICE [UK/A]

Disposición de canales en la Región 1 para las estaciones del servicio móvil marítimo en las bandas 415 - 435 kHz, 435 - 495 kHz, 505 - 526,5 kHz, 1 606,5 - 1 625 kHz, 1 635 - 1 800 kHz y 2 045 - 2 160 kHz (véase Article 60)

- 103 -MOB-87/DT/1A-F/E/S

APPENDICE 32

Disposition des voies à utiliser pour les systèmes à bande étroite de télégraphie à impression directe et de transmission de données dans les bandes du service mobile maritime comprises entre 4 000 kHz et 23 000 kHz (fréquences appariées)

APPENDIX 32

Channelling of the Maritime Mobile Bands Between 4 000 kHz and 23 000 kHz Used for Narrow-Band Direct-Printing Telegraphy and Data Systems (Paired Frequencies)

APENDICE 32

Disposición de canales para los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos en las bandas del servicio móvil marítimo comprendidas entre 4 000 kHz y 23 000 kHz (frecuencias asociadas por pares)

	SUP	CEPT-13/20/1	
Titre/ Title/ Título	MOD MOD	USA/24/725= J/60/632	CAN/25/415=

Table des fréquences des stations côtières pour l'exploitation à deux fréquences(kHz)

Table of Frequencies for Two-Frequency Operation by Coast Stations (kHz)

Cuadro de frecuencias de estaciones costeras para el funcionamiento con dos frecuencias (kHz)

SUP ADD	B/57/310 remplacé par B/57/311	r/replaced by/s	sustituido por	
MOD	USA/24/725	CAN/25/415	URS/32/160	J/60/633

- 104 -MOB-87/DT/1A-F/E/S

APPENDICE 33

Disposition des voies à utiliser pour les systèmes à bande étroite de télégraphie à impression directe et de transmission de données dans les bandes du service mobile maritime comprises entre 4 000 kHz et 27 500 kHz (fréquences non appariées)

APPENDIX 33

Channelling of the Maritime Mobile Bands Between 4 000 kHz and 27 500 kHz Used for Narrow-Band Direct-Printing Telegraphy and Data Transmission (Non-Paired Frequencies)

APENDICE 33

Disposición de canales para los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos en las bandas del servicio móvil marítimo comprendidas entre 4 000 kHz y 27 500 kHz (frecuencias no asociadas por pares)

Titre/ <u>Title</u> /Título	MOD	J/60/634
	SUP	CEPT-13/20/1
	MOD	voir Note/see Note/véase Nota USA/24

Table des fréquences d'émission des stations de navire (kHz)

Table of Ship Station Transmitting Frequencies (kHz)

Cuadro de frecuencias de transmisión de estaciones de barco (kHz)

SUP	B/57/312 remplacé	par/replaced by/sustituido	por
ADD	B/57/313	• • • • • • • • • • • • • • • • • • •	-
MOD	CAN/25/41	6 URS/32/161	J/60/634A

- 105 -MOB-87/DT/1A-F/E/S

APPENDICE 34

Table des fréquences d'appel à assigner aux stations de navire pour la télégraphie Morse de classe AlA, à des rapidités de modulation ne dépassant pas 40 bauds

APPENDIX 34

Table of Calling Frequencies Assignable to Ship Stations for AlA Morse Telegraphy at Speeds Not Exceeding 40 Bauds

APENDICE 34

Cuadro de frecuencias de llamada asignables a las estaciones de barco para telegrafía Morse de clase AlA, a velocidades no superiores a 40 baudios

	SUP	CEPT-13/20/1
•	MOD	voir Note/ <u>see Note</u> /véase Nota USA/24 URS/32/162
Tableau/ Table/	SUP ADD	B/57/314 remplacé par/ <u>replaced by</u> /sustituido por B/57/315
Cuadro		

CAN/25/417 J/60/635

MOD

Exemples de subdivision des voies (fréquences centrales en italique) Examples of subdivision of channels (centre frequencies in italics) Ejemplos de subdivisión de canales (Las frecuencias centrales están en cursiva)

SUP	B/57/316			
	remplacé	par/replaced	by/sustituido	por
ADD	B/57/317	-		

- 106 -MOB-87/DT/1A-F/E/S

APPENDICE 35

Tableau des fréquences de travail, en kHz, à assigner aux stations de navire pour la télégraphie Morse de classe AlA, à des rapidités de modulation ne dépassant pas 40 bauds (voir également la Note e) de l'Appendice 31)

APPENDIX 35

Table of Working Frequencies, in kHz, Assignable to Ship Stations for AlA Morse Telegraphy at Speeds Not Exceeding 40 Bauds (see also Note e) to Appendix 31)

APENDICE 35

Cuadro de las frecuencias de trabajo (en kHz) asignables a las estaciones de barco para la telegrafía Morse de clase AlA, a velocidades no superiores a 40 baudios (véase también la nota e) al Apéndice 31)

Titre/ <u>Title</u> /Título	MOD	J/60/636	
Note/Nota	MOD	J/60/637	
Appendice/ <u>Appendix</u> /Apénd	lice SUP	CEPT-13/20/1	
	MOD MOD	voir Note/ <u>see Note</u> /véase Nota USA/24 URS/32/163	
Tableau/ <u>Table</u> /Cuadro	SUP	B/57/318 remplacé par/ <u>replaced by</u> /sustituido por B/57/319	
	MOD	J/60/638	

- 107 -MOB-87/DT/1A-F/E/S

APPENDICE 36 Appareils automatiques destinés à la réception des signaux d'alarme radiotélégraphique et radiotéléphonique

APPENDIX 36 Automatic Receiving Equipment for Radiotelegraph and Radiotelephone Alarm Signals

APENDICE 36 Aparato automático de recepción de las señales de alarma radiotelegráfica y radiotelefónica

Appendice/ <u>Appendix</u> /Apéndice	NOC	DDR/7/34
1. e)	MOD	USA/24/726

APPENDICE 37A

Caractéristiques techniques des radiobalises de localisation des sinistres fonctionnant sur les fréquences porteuses 121,5 MHz et 243 MHz

APPENDIX 37A

Technical Characteristics of Emergency Position-Indicating Radiobeacons Operating on the Carrier Frequencies 121.5 MHz and 243 MHz

APENDICE 37A

Características técnicas de las radiobalizas de localización de siniestros que funcionan en las frecuencias portadoras de 121,5 MHz y 243 MHz

Appendice/ <u>Appendix</u> /Apéndice	NOC	DDR/7/35
b)	(MOD)	D/30/99
ca) [d]	ADD	USA/24/727
d)	MOD	USA/24/728
Note/Nota 2	ADD	USA/24/729

- 108 -MOB-87/DT/1A-F/E/S

Appendice 37B/Appendix 37B/Apéndice 37B ADD CAN/25/419

APPENDICE 37B Caractéristiques techniques des radiobalises de localisation des sinistres fonctionnant sur la fréquence porteuse 406,025 MHz

APPENDIX 37B Technical Characteristics of Emergency Position-Indicating Radiobeacons Operating on the Carrier Frequency 406.025 MHz

APENDICE 37B Características técnicas de las radiobalizas de localización de siniestros que funcionan en la frecuencia portadora de 406,025 MHz

Appendice 37C/Appendix 37C/Apéndice 37C

ADD CAN/25/420

APPENDICE 37C Caractéristiques techniques des radiobalises de localisation des sinistres fonctionnant dans la bande 1 645,5 - 1 656,5 MHz

APPENDIX 37C

Technical Characteristics of Emergency Position-Indicating Radiobeacons Operating in the Band 1 645.5 - 1 656.5 MHz

APENDICE 37C

Características técnicas de las radiobalizas de localización de siniestros que funcionan en la banda 1 645,5 - 1 656,5 MHz - 109 -MOB-87/DT/1A-F/E/S

APPENDICE 38 Appareils à bande étroite de télégraphie à impression directe

APPENDIX 38

Narrow-Band Direct-Printing Telegraph Equipment

APENDICE 38

Aparatos de banda estrecha para telegrafía de impresión directa

•					
c)	MOD MOD	USA/24/730= URS/32/164	J/60/639=	CHN/63/12=	
Note/Nota l	MOD	CHN/63/13			
d)	MOD MOD	DDR/7/36= URS/32/165	USA/24/731= J/60/640	CHN/63/14=	
Note/Nota 2	SUP MOD	DDR/7/37 J/60/641	USA/24/734	URS/32/166	CHN/63/21
Note/Nota 3	SUP (MOD)	URS/32/167 DDR/7/38(=)	USA/24/735(=)	CHN/63/22(=)	
e)	MOD	J/60/642			
f)	SUP	USA/24/732	J/60/643	CHN/63/15	
g)	(MOD)	USA/24/733=	J/60/644=	CHN/63/16=	
h)	(MOD) MOD	USA/24/736= J/60/645	CHN/63/17=		
i)	(MOD) MOD	USA/24/737= J/60/646	CHN/63/18=		
ia)	ADD	USA/24/738(=)	CHN/63/19(=)		
j)	MOD MOD	DDR/7/39= J/60/647	USA/24/739=	CHN/63/20=	

- 110 -MOB-87/DT/1A-F/E/S

Appendice 39A/Appendix 39A/Apéndice 39A

ADD

J/60/647A

APPENDICE 39A Equipement d'appel sélectif numérique

APPENDIX 39A Digital Selective Calling Equipment

APENDICE 39A Equipo de llamada selectiva digital

Appendice 39B/Appendix 39B/Apéndice 39B

ADD

J/60/648

APPENDICE 39B Procédures d'exploitation du système d'appel sélectif numérique

APPENDIX 39B Operational Procedures for Digital Selective Calling System

APENDICE 39B

Procedimientos operacionales para el sistema de llamada selectiva digital

- 111 -MOB-87/DT/1A-F/E/S

APPENDICE 40 Systèmes à compresseurs et extenseurs couplés

APPENDIX 40 Linked Compressor and Expander Systems

APENDICE 40 Sistemas de compresores expansores acoplados

SUP USA/24/740 URS/32/168

APPENDICE 43 Identités dans le service mobile maritime

APPENDIX 43 Maritime Mobile Service Identities

APENDICE 43 Identidades en el servicio móvil marítimo

1.2	MOD	G/33/281
1.2A	ADD	G/33/282
2.	MOD	G/33/283
2.2-2.2.5	ADD	G/33/284-G/33/289
Note/Nota 1	ADD	G/33/281A
Note/Nota 2	ADD	G/33/283A
4.	MOD	USA/24/741= TUR/59/93=

- 112 -MOB-87/DT/1A-F/E/S

APPENDICE 44 Numéros d'appel sélectif des stations de navire et numéros d'identification des stations côtières

APPENDIX 44 Ship Station Selective Call Numbers and Coast Station Identification Numbers

APENDICE 44 Números de llamada selectiva de las estaciones de barco y números de identificación de las estaciones costeras

Appendice/ <u>Appendix</u> /Apéndice	NOC	USA/24/742	
Tableau de la Partie I/ Table of Part I/ Cuadro de la Parte I	MOD	TUR/59/94	J/60/649
Tableau de la Partie II/ <u>Table of Part II</u> / Cuadro de la Parte II	MOD	J/60/650	

- 113 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 8

relative à la mise en oeuvre des modifications d'attributions dans les bandes comprises entre 4 000 kHz et 27 500 kHz

RESOLUTION No. 8 Relating to Implementation of the Changes in Allocations in the Bands Between 4 000 kHz and 27 500 kHz

RESOLUCION N.º 8

relativa a la aplicación de las modificaciones de atribuciones en las bandas comprendidas entre 4 000 kHz y 27 500 kHz

SUP USA/24/742A (voir/see/véase ADD Res. A3 : USA/24/783) J/60/652 (voir/see/véase ADD Res.8A: J/60/651)

MOD CAN/25/421= G/33/290= E/39/1=

RESOLUTION Nº 9

relative à la révision de certaines parties du Fichier de référence international des fréquences dans les bandes de fréquences attribuées au service fixe comprises entre 3 000 kHz et 27 500 kHz

RESOLUTION No. 9 Relating to the Revision of Entries in the Master International Frequency Register in the Bands Allocated to the Fixed Service Between 3 000 kHz and 27 500 kHz

RESOLUCION N.º 9 relativa a la revisión de ciertas partes del Registro Internacional de Frecuencias en las bandas atribuidas al servicio fijo entre 3 000 kHz y 27 500 kHz

SUP CAN/25/422

NOC G/33/291

RESOLUTION N° 12 relative aux nouvelles règles de formation des indicatifs d'appel

RESOLUTION No. 12

Relating to the New Rules for the Formation of Call Signs

RESOLUCION N.º 12

relativa a las nuevas reglas de formación de distintivos de llamada

SUP	DDR/7/40	USA/24/742B	CAN/25/423	G/33/292
	E/39/2	AUS/40/400	J/60/653	PRG/61/137

- 114 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 13

relative à la formation des indicatifs d'appel et à l'attribution de nouvelles séries internationales

RESOLUTION No. 13 Relating to the Formation of Call Signs and the Allocation of New International Series

RESOLUCION N.o 13 relativa a la formación de los distintivos de llamada y a la atribución de nuevas series internacionales

NOC DDR/7/41 G/33/293

RESOLUTION N^O 30 relative à la révision d'inscriptions du Fichier de référence international des fréquences à la demande de conférences antérieures

RESOLUTION No. 30

Relating to the Review of Entries in the Master International Frequency Register at the Request of Previous Conferences

RESOLUCION N.º 30

relativa a la revisión de inscripciones en el Registro Internacional de Frecuencias a petición de conferencias anteriores

SUP DDR/7/42

NOC G/33/294

RESOLUTION Nº 38

relative à la réassignation des fréquences aux stations des services fixe et mobile fonctionnant dans les bandes attribuées aux services de radiolocalisation et d'amateur dans la Région l

RESOLUTION No. 38

Relating to the Reassignment of Frequencies of Stations in the Fixed and Mobile Services in the Bands Allocated to the Radiolocation and Amateur Services in Region 1

RESOLUCION N.º 38

relativa a la reasignación de frecuencias a las estaciones de los servicios fijo y móvil en las bandas atribuidas a los servicios de radiolocalización y de aficionados en la Región l

- MOD G/33/295-G/33/306
- NOC DDR/7/43

- 115 -MOB-87/DT/1A/F/E/S

RESOLUTION Nº 90 (Mob-83)

relative à la révision, au remplacement et à l'abrogation de Résolutions et Recommandations de la Conférence administrative mondiale des radiocommunications (Genève, 1979)

RESOLUTION No. 90 (Mob-83)

Relating to the Revision, Replacement and Abrogation of Resolutions and Recommendations of the World Administrative Radio Conference, Geneva, 1979

RESOLUCION N.º 90 (Mob-83)

relativa a la revisión, sustitución y derogación de las Resoluciones y Recomendaciones de la Conferencia Administrativa Mundial de Radiocomunicaciones (Ginebra, 1979)

SUP CAN/25/424

RESOLUTION N° 200 (Rev.Mob-83) relative à la classe d'émission à utiliser pour la détresse et la sécurité sur la fréquence porteuse 2 182 kHz

RESOLUTION No. 200 (Rev.Mob-83) Relating to the Class of Emission to be Used for Distress and Safety Purposes on the Carrier Frequency 2 182 kHz

RESOLUCION N.º 200 (Rev.Mob-83) relativa a la clase de emisión que se debe utilizar para fines de socorro y seguridad en la frecuencia portadora de 2 182 kHz

SUP	DDR/7/43A	USA/24/742C	G/33/312	KEN/58/2
MOD	AUS/40/401-A	US/40/413		

RESOLUTION Nº 202

relative à la convocation d'une conférence administrative mondiale des radiocommunications pour les services mobiles

RESOLUTION No. 202

Relating to the Convening of a World Administrative Radio Conference for the Mobile Services

RESOLUCION N.º 202

relativa a la convocación de una conferencia administrativa mundial de radiocomunicaciones para los servicios móviles

SUP	DDR/7/44	USA/24/743	CAN/25/425	B/57/320
	KEN/58/3	J/60/654	PRG/61/138	

- 116 -MOB-87/DT/1A/F/E/S

RESOLUTION Nº 203 (Mob-83)

relative à l'utilisation des fréquences du futur système mondial de détresse et de sécurité en mer (FSMDSM) par le service mobile terrestre

RESOLUTION No. 203 (Mob-83)

Relating to the Use of Frequencies of the Future Global Maritime Distress and Safety System (FGMDSS) by the Land Mobile Service

RESOLUCION N.º 203 (Mob-83)

relativa a la utilización de las frecuencias del futuro sistema mundial de socorro y seguridad marítimos (FSMSSM) por el servicio móvil terrestre

SUP G/33/313

MOD CAN/25/426-CAN/25/430

RESOLUTION Nº 204 (Mob-83) relative à l'utilisation de la bande 2 170 - 2 194 kHz

RESOLUTION No. 204 (Mob-83) Relating to the Use of the Band 2 170 - 2 194 kHz

RESOLUCION N.º 204 (Mob-83) relativa a la utilización de la banda 2 170 - 2 194 kHz

SUP

ARG/5/102 DDR/7/45 CEPT-15/22/2 (voir/see/véase ADD Res. H : CEPT-15/22/1) USA/24/744 G/33/314

RESOLUTION Nº 205 (Mob-83) relative à la protection de la bande 406 - 406,1 MHz attribuée au service mobile par satellite

RESOLUTION No. 205 (Mob-83) Relating to the Protection of the Band 406 - 406,1 MHz Allocated to the Mobile-Satellite Service

RESOLUCION N.º 205 (Mob-83) relativa a la protección de la banda 406 - 406,1 MHz atribuida al servicio móvil por satélite

MOD USA/24/745-USA/24/753

NOC CAN/25/431 G/33/315

- 117 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 206 (Mob-83)

relative à la date d'entrée en vigueur de la bande de garde de 10 kHz pour la fréquence 500 kHz dans le service mobile (détresse et appel)

RESOLUTION No. 206 (Mob-83)

Relating to the Date of Entry Into Force of the 10 kHz Guardband for the Frequency 500 kHz in the Mobile Service (Distress and Calling)

RESOLUCION N.º 206 (Mob-83)

relativa a la fecha de entrada en vigor de la banda de guarda de 10 kHz para la frecuencia de 500 kHz en el servicio móvil (socorro y llamada)

- SUP DDR/7/46 CEPT-8/15/73 USA/24/754 (voir/see/véase ADD Res. A5 : USA/24/785) $G/\overline{33}/316$ CAN/25/432 E/43/55
- AUS/40/414-AUS/40/428 MOD

RESOLUTION Nº 300

relative à l'utilisation et à la notification des fréquences appariées réservées aux systèmes à bande étroite de télégraphie à impression directe et de transmission de données fonctionnant dans les bandes d'ondes décamétriques attribuées au service mobile maritime

RESOLUTION No. 300

Relating to the Use and Notification of Paired Frequencies Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems in the HF Bands Allocated to the Maritime Mobile Service

RESOLUCION N.º 300

relativa a la utilización y a la notificación de frecuencias asociadas por pares reservadas para los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos que funcionan en las bandas de ondas decamétricas atribuidas al servicio móvil marítimo

> G/33/317 J/60/655 SUP

RESOLUTION Nº 301

relative à la notification des fréquences non appariées utilisées par les stations de navire pour les systèmes à bande étroite de télégraphie à impression directe et de transmission de données

RESOLUTION No. 301

Relating to the Notification of Non-Paired Ship Station Frequencies Used for Narrow-Band Direct-Printing Telegraph and Data Transmissions

RESOLUCION N.º 301

relativa a la notificación de las frecuencias no asociadas por pares utilizadas por las estaciones de barco para los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos

- G/33/318 (voir/see/véase ADD Res. F : CEPT-13/20/14) J/60/656
- SUP

- 118 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 302

relative au traitement par l'IFRB des fiches de notification d'assignation de fréquence aux stations océanographiques

RESOLUTION No. 302

Relating to the Manner in Which the IFRB Shall Treat Notifications Dealing with Frequency Assignments to Oceanographic Stations

RESOLUCION N.º 302

relativa a la tramitación por la IFRB de las notificaciones de asignaciones de frecuencia para estaciones oceanográficas

SUP J/60/657

voir note/see note/véase nota G/33/319

RESOLUTION Nº 304

relative à la mise en oeuvre de la nouvelle disposition des voies utilisées pour la télégraphie Morse de classe AlA dans les bandes attribuées au service mobile maritime entre 4 000 kHz et 27 500 kHz

RESOLUTION No. 304

Relating to the Implementation of the New Channelling Arrangement for AlA Morse Radiotelegraphy in the Bands Allocated to the Maritime Mobile Service Between 4 000 kHz and 27 500 kHz

RESOLUCION N.º 304

relativa a la aplicación de la nueva disposición de los canales utilizados para la telegrafía Morse de clase AlA en las bandas atribuidas al servicio móvil marítimo entre 4 000 kHz y 27 500 kHz

SUP	ARG/5/103	DDR/7/47	USA/24/755	URS/32/169
	G/33/320	PRG/61/139		

RESOLUTION Nº 306

relative à l'emploi de la technique de la bande latérale unique dans les bandes du service mobile maritime ratiotéléphonique comprises entre 1 605 kHz et 4 000 kHz

RESOLUTION No. 306 Relating to the Use of Single-Sideband Technique in the Radiotelephone Maritime Mobile Service Bands Between 1 605 kHz and 4 000 kHz

RESOLUCION N.º 306

relativa al empleo de la técnica de banda lateral única en las bandas del servicio móvil marítimo radiotelefónico comprendidas entre l 605 kHz y 4 000 kHz

SUP	ARG/5/104	DDR/7/48	USA/24/756	CAN/25/433
	G/33/321	KEN/58/4	PRG/61/140	

RESOLUTION Nº 307

relative au passage à la technique de la bande latérale unique des stations radiotéléphoniques du service mobile maritime dans les bandes comprises entre l 605 kHz et 4 000 kHz

RESOLUTION No. 307

Relating to the Conversion to Single-Sideband Technique of Stations of the Radiotelephone Maritime Mobile Service Operating in the Bands Between 1 605 kHz and 4 000 kHz

RESOLUCION N.º 307

relativa a la conversión a la técnica de banda lateral única en las estaciones radiotelefónicas del servicio móvil marítimo en las bandas entre l 605 kHz y 4 000 kHz

SUP	ARG/5/105	DDR/7/49	USA/24/757	CAN/25/434
	G/33/322	KEN/58/5	PRG/61/141	

RESOLUTION Nº 308 relative à l'espacement des fréquences attribuées au service mobile maritime dans la bande 156 - 174 MHz

RESOLUTION No. 308

relating to the Channel Spacing of Frequencies Allocated to the Maritime Mobile Service in the Band 156 - 174 MHz

RESOLUCION N.º 308

relativa a la separación entre canales de las frecuencias atribuidas al servicio móvil marítimo en la banda 156 - 174 MHz

SUP	ARG/5/106	DDR/7/50	USA/24/758	CAN/25/435
	G/33/323	KEN/58/6	PRG/61/142	

RESOLUTION Nº 309 relative à l'utilisation non autorisée des fréquences des bandes attribuées au service mobile maritime

RESOLUTION No. 309 Relating to the Unauthorised Use of Frequencies in the Bands Allocated to the Maritime Mobile Service

RESOLUCION N.º 309 relativa a la utilización no autorizada de frecuencias de las bandas atribuidas al servicio móvil marítimo

SUP

G/33/324 (voir/see/véase ADD Res. UK/C : G/33/370)

- 120 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 310

relative aux fréquences à prévoir en vue de l'établissement et de la mise en oeuvre future de systèmes de télémesure, de télécommande et d'échange de données pour les mouvements des navires

RESOLUTION No. 310

Relating to Frequency Provisions for Development and Future Implementation of Ship Movement Telemetry, Telecommand and Data Exchange Systems

RESOLUCION N.º 310

relativa a las disposiciones en materia de frecuencias para el desarrollo y futura aplicación de los sistemas de telemedida, telemando o intercambio de datos para el movimiento de los barcos

MOD USA/24/759-USA	/24/763
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NOC DDR/7/51 G/33/325

RESOLUTION Nº 311

54 - 1

relative à l'introduction d'un système d'appel sélectif numérique pour répondre aux besoins du service mobile maritime

RESOLUTION No. 311

Relating to the Introduction of a Digital Selective Calling System to Meet the Requirements of the Maritime Mobile Service

RESOLUCION N.º 311

relativa a la introducción de un sistema numérico de llamada selectiva para atender las necesidades del servicio móvil marítimo

SUP	DDR/7/52	USA/24/764	CAN/25/436	G/33/326
	KEN/58/7			

RESOLUTION N° 312 relative à l'introduction de nouvelles procédures d'appel en télégraphie Morse AlA à ondes décamétriques

RESOLUTION No. 312 Relating to the Introduction of New Calling Procedures for HF AlA Morse Telegraphy

RESOLUCION N.º 312

relativa a la introducción de nuevos procedimientos de llamada aplicables a la telegrafía Morse de clase AlA en las bandas de ondas decamétricas

SUP	ARG/5/107	DDR/7/53	USA/24/765	URS/32/170
	KEN/58/8	PRG/61/143		

MOD G/33/327-G/33/335

RESOLUTION Nº 314

relative à l'établissement d'un système mondial coordonné pour le rassemblement des données concernant l'océanographie

RESOLUTION No. 314

Relating to the Establishment of a Coordinated Worldwide System for the Collection of Data Relating to Oceanography

RESOLUCION N.º 314

relativa al establecimiento de un sistema mundial coordinado para recopilar datos relacionados con la oceanografía

voir note/see note/véase nota G/33/336

RESOLUTION Nº 315

relative à la suppression éventuelle des taxes de station mobile pour la correspondance publique du service mobile maritime

RESOLUTION No. 315

Relating to the Eventual Abolition of Mobile Station Charges for Public Correspondence in the Maritime Mobile Service

RESOLUCION N.º 315

relativa a la posible supresión de las tasas de estación móvil para la correspondencia pública en el servicio móvil marítimo

SUP CAN/25/437 URS/32/171

RESOLUTION Nº 316

relative à la coopération technique avec les pays en développement dans le domaine des télécommunications maritimes

RESOLUTION No. 316

Relating to Technical Cooperation with the Developing Countries in Maritime Telecommunications

RESOLUCION N.º 316

relativa a la cooperación técnica con los países en desarollo en materia de telecomunicaciones marítimas

NOC CAN/25/438

- 122 -MOB-87/DT/1A-F/E/S

RESOLUTION N^O 317 (Mob-83) relative à la mise en oeuvre de la fréquence 156,525 MHz pour l'appel sélectif numérique en matière de détresse et de sécurité dans le service mobile maritime

RESOLUTION No. 317 (Mob-83) Relating to the Implementation of the Frequency 156.525 MHz for Distress and Safety Digital Selective Calling in the Maritime Mobile Service

RESOLUCION N.º 317 (Mob-83) relativa a la utilización de la frecuencia de 156,525 MHz para la llamada selectiva digital de socorro y seguridad en el servicio móvil marítimo

SUP

ARG/5/108 DDR/7/54 USA/24/766 CAN/25/439 G/33/337 (voir/<u>see</u>/véase ADD Res. G : CEPT-14/21/1) KEN/58/9

RESOLUTION Nº 318 (Mob-83)

relative aux procédures provisoires applicables aux stations émettant des avertissements concernant la navigation et la météorologie et des informations urgentes destinées aux navires sur la fréquence 518 kHz à l'aide d'un système automatique de télégraphie à impression directe à bande étroite (NAVTEX)

RESOLUTION No. 318 (Mob-83)

Relating to Provisional Procedures Applicable to Stations Transmitting Navigational and Meteorological Warnings and Urgent Information to Ships on the Frequency 518 kHz Using Automatic Narrow-Band Direct-Printing Telegraphy (NAVTEX)

RESOLUCION N.º 318 (Mob-83)

relativa a los procedimientos provisionales aplicables a las estaciones que transmiten avisos a los navegantes y boletines meteorológicos e información urgente a los barcos en la frecuencia 518 kHz por telegrafía automática de impresión directa de banda estrecha (NAVTEX)

SUP	DDR/7/55	USA/24/767	G/33/338	HOL/55/2
	J/60/658			

RESOLUTION Nº 319 (Mob-83)

relative à un réexamen général des bandes d'ondes decamétriques attribuées, en exclusivité ou en partage, au service mobile maritime

RESOLUTION No. 319 (Mob-83) Relating to a General Review of the HF Bands Allocated on an Exclusive or Shared Basis to the Maritime Mobile Service

RESOLUCION N.º 319 (Mob-83)

relativa a una revisión general de las bandas de ondas decamétricas atribuidas exclusivamente o en régimen de compartición al servicio móvil marítimo

SUP	ARG/5/109	DDR/7/56	USA/24/768	J/60/659
MOD	G/33/339-G/3	3/352		

- 123 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 320 (Mob-83)

relative à l'attribution des chiffres d'identification maritime (MID). à la formation et l'assignation des identités dans le service mobile maritime et dans le service mobile maritime par satellite (Identités dans le service mobile maritime)

RESOLUTION No. 320 (Mob-83) Relating to the Allocation of Maritime Identification Digits (MID). and the Formation and Assignment of Identities in the Maritime Mobile and Maritime Mobile Satellite Services (Maritime Mobile Service Identities)

RESOLUCION N.º 320 (Mob-83)

relativa a la atribución de cifras de identificación marítima (MID), y a la formación y la asignación de identidades en el servicio móvil marítimo y en el servicio móvil marítimo por satélite (Identidades en el servicio móvil marítimo)

SUP	G/33/353		
NOC	DDR/7/57	USA/24/769	KEN/58/10

RESOLUTION Nº 321 (Mob-83)

relative à l'élaboration et à l'introduction dans le Règlement des radiocommunications de dispositions touchant à l'exploitation du futur système mondial de détresse et de sécurité en mer (FSMDSM)

RESOLUTION No. 321 (Mob-83)

Relating to the Development of Operational Provisions for the Future ${\tt Global}_{\ell}$. Maritime Distress and Safety System (FGMDSS) and to Their Introduction into the Radio Regulations

RESOLUCION N.º 321 (Mob-83)

relativa a la elaboración e introducción en el Reglamento de Radiocomunicaciones de disposiciones operacionales para el futuro sistema mundial de socorro y seguridad marftimos (FSMSSM)

> SUP DDR/7/58 USA/24/770 CAN/25/440 G/33/354

- 124 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 322 (Mob-83)

relative au choix des stations côtières qui seront chargées de responsabilités dans le domaine de la veille sur certaines fréquences à l'occasion de la mise en oeuvre du futur système mondial de détresse et de sécurité en mer (FSMDSM)

RESOLUTION No. 322 (Mob-83)

Relating to the Selection of Coast Stations to Assume Watch-Keeping Responsabilities on Certain Frequencies in Connection with the Implementation of the Future Global Maritime Distress and Safety System (FGMDSS)

RESOLUCION N.º 322 (Mob-83)

relativa a la selección de estaciones costeras que asumirán las responsabilidades de escucha en ciertas frecuencias en relación con la implantación del futuro sistema mundial de socorro y seguridad marítimos (FSMSSM)

MOD CAN/23/441-CAN/23/451

MOD ou/or/o SUP G/33/355

RESOLUTION Nº 400

relative au traitement des fiches de notification concernant les assignations de fréquence aux stations aéronautiques dans les bandes attribuées en exclusivité au service mobile aéronautique (R) entre 2 850 kHz et 22 000 kHz

RESOLUTION No. 400

Relating to the Treatment of Notices Concerning Frequency Assignments to Aeronautical Stations in the Bands Allocated Exclusively to the Aeronautical Mobile (R) Service Between 2 850 kHz and 22 000 kHz

RESOLUCION N.º 400

relativa a la tramitación de notificaciones de asignaciones de frecuencia a las estaciones aeronáuticas en las bandas atribuidas exclusivamente al servicio móvil aeronáutico (R) entre 2 850 kHz y 22 000 kHz

SUP	DDR/7/59	USA/24/771	CAN/25/452	G/33/356
	E/39/3	AUS/40/429	B/57/321	KEN/58/11
	J/60/660	PRG/61/144		

- 125 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 401

relative à la mise en oeuvre du Plan d'allotissement de fréquences dans les bandes attribuées en exclusivité au service mobile aéronautique (R) entre 2 850 kHz et 22 000 kHz

RESOLUTION No. 401

Relating to the Implementation of the Frequency Allotment Plan in the Bands Allocated Exclusively to the Aeronautical Mobile Service (R) Service Between 2 850 kHz and 22 000 kHz

RESOLUCION N.º 401

relativa a la aplicación del Plan de adjudicación de frecuencias en las bandas atribuidas exclusivamente al servicio móvil aeronáutico (R) entre 2 850 kHz y 22 000 kHz

SUP	DDR/7/60	USA/24/772	CAN/25/453	G/33/357
	E/39/4	AUS/40/430	B/57/322	KEN/58/12
	J/60/661	PRG/61/145		

RESOLUTION Nº 402

relative à la mise en oeuvre du nouvel arrangement applicable aux bandes attribuées en exclusivité au service mobile aéronautique (R) entre 2 850 kHz et 22 000 kHz

RESOLUTION No. 402

Relating to the Implementation of the New Arrangement Applicable to Bands Allocated Exclusively to the Aeronautical Mobile (R) Service Between 2 850 kHz and 22 000 kHz

RESOLUCION N.º 402

relativa a la puesta en práctica del nuevo ordenamiento aplicable a las bandas atribuidas exclusivamente al servicio móvil aeronáutico (R) entre 2 850 kHz y 22 000 kHz

SUP	DDR/7/61	USA/24/773	CAN/25/454	G/33/358
	E/39/5	AUS/40/431	B/57/323	KEN/58/13
	PRG/61/146			

RESOLUTION Nº 403 relative à l'utilisation des fréquences 3 023 kHz et 5 680 kHz communes aux services mobiles aéronautiques (R) et (OR)

RESOLUTION No. 403 Relating to the Use of Frequencies 3 023 kHz and 5 680 kHz Common to the Aeronautical Mobile (R) and (OR) Services

RESOLUCION N.º 403

relativa a la utilización de las frecuencias 3 023 kHz y 5 680 kHz comunes a los servicios móviles aeronáuticos (R) y (OR)

NOC G/33/359

- 126 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 404

relative à la mise en oeuvre de la nouvelle disposition des bandes de fréquences attribuées en exclusivité au service mobile aéronautique (R) entre 21 924 kHz et 22 000 kHz

RESOLUTION No. 404

Relating to the Implementation of the New Arrangement of Bands Allocated Exclusively to the Aeronautical Mobile (R) Service Between 21 924 kHz and 22 000 kHz

RESOLUCION N.º 404

relativa a la puesta en práctica de la nueva ordenación de las bandas atribuidas exclusivamente al servicio móvil aeronáutico (R) entre 21 924 kHz y 22 000 kHz

SUP	DDR/7/62	USA/24/774	CAN/25/455	G/33/360
	E/39/6	AUS/40/432	B/57/324	KEN/58/14
	PRG/61/147			

RESOLUTION Nº 405

relative à l'utilisation des fréquences du service mobile aéronautique (R)

RESOLUTION No. 405

Relating to the Use of Frequencies of the Aeronautical Mobile (R) Service

RESOLUCION N.º 405

relativa a la utilización de las frecuencias del servicio móvil aeronáutico (R)

NOC	DDR/7/63	USA/24/775	CAN/25/456	G/33/361
	AUS/40/433	KEN/58/15		

RESOLUTION Nº 406

relative à l'utilisation de bandes de fréquences supérieures aux bandes d'ondes décamétriques pour les communications et la diffusion de renseignements météorologiques dans le service mobile aéronautique (R) et le service mobile aéronautique par satellite (R)

RESOLUTION No. 406

Relating to the Use of Frequency Bands Higher than the HF Bands in the Aeronautical Mobile (R) Service and the Aeronautical Mobile-Satellite (R) Service for Communications and for Meteorological Broadcasts

RESOLUCION N.º 406

relativa a la utilización de bandas de frecuencias superiores a las de ondas decamétricas para las comunicaciones y para la difusión de datos meteorológicos en el servicio móvil aeronáutico (R) y en el servicio móvil aeronáutico por satélite (R)

NOC	DDR/7/64	USA/24/776	CAN/25/457	G/33/362
	AUS/40/434	KEN/58/16		

- 127 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº 407

relative à l'utilisation non autorisée des fréquences des bandes attribuées au service mobile aéronautique (R)

RESOLUTION No. 407

Relating to the Unauthorised Use of Frequencies in the Bands Allocated to the Aeronautical Mobile (R) Service

RESOLUCION N.º 407

relativa a la utilización no autorizada de frecuencias de las bandas atribuidas al servicio móvil aeronáutico (R)

- SUP G/33/363 (voir/see/véase ADD Res. UK/C : G/33/370) PRG/61/148 (voir/see/véase ADD Res.407A : PRG/61/149)
- NOC USA/24/777 AUS/40/435 KEN/58/17

RESOLUTION Nº 600

relative à l'utilisation, pour le service de radionavigation, des bandes de fréquences 2 900 - 3 100 MHz, 5 470 - 5 650 MHz, 9 200 - 9 300 MHz, 9 300 - 9 500 MHz et 9 500 - 9 800 MHz

RESOLUTION No. 600

Relating to the Use for the Radionavigation Service of the Frequency Bands 2 900 - 3 100 MHz, 5 470 - 5 650 MHz, 9 200 - 9 300 MHz, 9 300 - 9 500 MHz and 9 500 - 9 800 MHz

RESOLUCION N.º 600

relativa a la utilización de las bandas de frecuencias 2 900 - 3 100 MHz, 5 470 - 5 650 MHz, 9 200 - 9 300 MHz, 9 300 - 9 500 MHz y 9 500 - 9 800 MHz para el servicio de radionavegación

- SUP DDR/7/65 USA/24/778
- MOD G/33/364-G/33/365

RESOLUTION Nº 601

relative aux Normes et aux Avis concernant les radiobalises de localisation des sinistres fonctionnant sur les fréquences 121,5 MHz et 243 MHz

RESOLUTION No. 601

Relating to the Recommendations and Standards for Emergency Position-Indicating Radiobeacons Operating on the Frequencies 121.5 MHz and 243 MHz

RESOLUCION N.º 601

relativa a las Normas y Recomendaciones concernientes a las radiobalizas de localización de siniestros que funcionan en las frecuencias de 121,5 MHz y 243 MHz

SUP	USA/24/779	CAN/25/458	PRG/61/150
NOC	DDR/7/66 KEN/58/18	G/33/366	AUS/40/436

- 128 -MOB-87/DT/1A/F/E/S

RESOLUTION Nº 704 (Mob-83)

relative à la convocation d'une conférence administrative régionale des radiocommunications ayant pour objet d'établir des plans d'assignation de fréquences pour le service mobile maritime dans les bandes comprises entre 435 kHz et 526,5 kHz et dans les parties de la bande comprise entre 1 606,5 kHz et 3 400 kHz dans la Région 1 et de planifier l'utilisation de la bande 415 - 435 kHz par le service de radionavigation aéronautique dans la Région 1

RESOLUTION. No. 704 (Mob-83)

Relating to the Holding of a Regional Administrative Radio Conference to prepare Frequency Assignment Plans for the Maritime Mobile Service in the Bands Between 435 kHz et 526.5 kHz and in Parts of the Band Between 1 606.5 kHz and 3 400 kHz in Region 1 and to Plan for the Aeronautical Radionavigation Service in the Band 415 - 435 kHz in Region 1

RESOLUCION N.º 704 (Mob-83

relativa a la convocatoria de una conferencia administrativa regional de radiocomunicaciones para preparar planes de asignación de frecuencias para el servicio móvil marítimo en las bandas comprendidas entre 435 kHz y 526,5 kHz y en partes de la banda comprendida entre 1 606,5 kHz y 3 400 kHz en la Región l y para planificar el servicio de radionavegación aeronáutica en la banda 415 - 435 kHz en la Región l

SUP DDR/7/67 USA/24/780 G/33/367 HOL/53/1 (voir/see/véase ADD Rec. (HOL/A) : HOL/53/2) KEN/58/19

RESOLUTION Nº 3 (EMA)

Choix entre les techniques MDF et MDM pour les transmissions de données par des radiophares maritimes

RESOLUTION No. 3 (EMA) Choice Between the FSK and MSK Techniques for Data Transmissions from Maritime Radiobeacons

RESOLUCION N.º 3 (EMA) Elección entre las técnicas MDF y MDM para las transmisiones de datos desde radiofaros marítimos

SUP G/33/368

- 129 -MOB-87/DT/1A-F/E/S

NOUVELLES RESOLUTIONS PROPOSEES PROPOSED NEW RESOLUTIONS NUEVAS RESOLUCIONES PROPUESTAS

(classées par ordre chronologique des documents) (classified in chronological document order) (ordenadas por orden cronológico de los documentos)

RESOLUTION Nº (Mob-87)

relative à la date d'entrée en vigueur de la bande de garde de 10 kHz pour la fréquence 500 kHz dans le service mobile (détresse et appel)

RESOLUTION No. (Mob-87) Relating to the Date of Entry into Force of the 10 kHz Guardband for the 500 kHz Frequency in the Mobile Service (Distress and Calling)

RESOLUCION N.º (Mob-87)

relativa a la fecha de entrada en vigor de la banda de guarda de 10 kHz para la frecuencia de 500 kHz en el servicio móvil (socorro y llamada)

ADD ARG/5/101

RESOLUTION Nº A

relative à l'introduction de dispositions applicables aux communications automatiques de détresse et de sécurité en mer et à la poursuite de l'application des dispositions existantes pour la détresse et la sécurité

RESOLUTION No. A

Relating to the Introduction of Provisions for Automated Communications for Maritime Distress and Safety and the Continuation of the Existing Distress and Safety Provisions

RESOLUCION N.º A

relativa a la introducción de disposiciones sobre comunicaciones automatizadas de socorro y seguridad marítimos y al mantenimiento de las disposiciones ya existentes sobre socorro y seguridad

ADD CEPT-8/15/304

- 130 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº B

relative au passage de la télégraphie Morse (fréquences d'appel et de travail) à la télégraphie à bande étroite à impression directe dans les bandes attribuées en exclusivité au service mobile maritime comprises entre 4 000 kHz et 27 500 kHz

RESOLUTION No. B

Relating to the Transition from Morse Telegraphy (Calling and Working) to Narrow-Band Direct-Printing Telegraphy in the Bands Between 4 000 kHz and 27 500 kHz Allocated Exclusively to the Maritime Mobile Service

RESOLUCION N.º B

relativa a la transición de telegrafía Morse (de llamada y trabajo) a telegrafía de impresión directa de banda estrecha en las bandas comprendidas entre 4 000 kHz y 27 500 kHz atribuidas exclusivamente al servicio móvil marítimo

ADD CEPT-13/20/10

RESOLUTION Nº C

relative à l'utilisation et à la notification des fréquences appariées réservées aux systèmes à bande étroite de télégraphie à impression directe et de transmission de données fonctionnant dans les bandes d'ondes décamétriques attribuées au service mobile maritime (voir l'appendice 31A)

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RESOLUTION No. C

Relating to the Use and Notification of the Paired Frequencies Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems we in the HF Bands Allocated on an Exclusive Basis to the Maritime Mobile Service (see Appendix 31A)

RESOLUCION N.º C

relativa a la utilización y notificación de frecuencias asociadas por pares reservadas para los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos que funcionan en las bandas de ondas decamétricas atribuidas con carácter exclusivo al servicio móvil marítimo (véase el apéndice 31A)

ADD CEPT-13/20/11

- 131 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº D

relative à l'utilisation et à la notification des fréquences appariées supplémentaires réservées à la radiotéléphonie dans les bandes d'ondes décamétriques attribuées au service mobile maritime

RESOLUTION No. D

Relating to the Use and Notification of the Additional Paired Frequencies Reserved for Radiotelephony in the HF Bands Allocated to the Maritime Mobile Service

RESOLUCION N.º D

relativa a la utilización y notificación de las frecuencias adicionales asociadas por pares reservadas para radiotelefonía en las bandas de ondas decamétricas atribuidas al servicio móvil marítimo

ADD CEPT-13/20/12

RESOLUTION Nº E

relative à l'entrée en vigueur de l'espacement révisé entre les fréquences réservées à la radiotéléphonie dans les bandes d'ondes décamétriques attribuées en exclusivité au service mobile maritime

RESOLUTION No. E

Relating to the Implementation of the Revised Channel Spacing Between Frequencies Reserved for Radiotelephony in the HF Bands Allocated on an Exclusive Basis to the Maritime Mobile Service

RESOLUCION N.º E

relativa a la introducción de la separación de canales revisada entre frecuencias reservadas para radiotelefonía en las bandas de ondas decamétricas atribuidas con carácter exclusivo al servicio móvil marítimo

ADD CEPT-13/20/13

RESOLUTION Nº F

relative à l'utilisation des fréquences non appariées de stations de navire pour les systèmes à bande étroite de télégraphie à impression directe et de transmission de données

RESOLUTION No. F

Relating to the Use of Non-Paired Ship Station Frequencies for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems

RESOLUCION N.º F

relativa a la utilización de frecuencias no asociadas por pares por los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos

ADD CEPT-13/20/14

- 132 -MOB-87/DT/1A-F/E/S

RESOLUTION N° G relative à la mise en service anticipée de la fréquence 156,525 MHz pour les appels courants (autres que détresse) effectués au moyen des techniques d'appel sélectif numérique

RESOLUTION No. G Relating to the Early Implementation of the Frequency 156.525 MHz for Routine (Non-Distress) Purposes Using Digital Selective Calling Techniques

RESOLUCION N.º G relativa a la pronta utilización de la frecuencia 156,525 MHz para llamadas corrientes (que no sean de socorro) con técnicas de llamada selectiva digital

ADD CEPT-14/21/1

RESOLUTION N^O H relative aux fréquences d'appel (autres que détresse) dans les bandes comprises entre 1 605 kHz et 4 000 kHz

RESOLUTION No. H Relating to Frequencies for Routine (Non-Distress) Calling in the Bands Between 1 605 kHz and 4 000 kHz

RESOLUCION N.º H

relativa a las frecuencias para llamadas corrientes (que no sean de socorro) en las bandas comprendidas entre 1 605 kHz y 4 000 kHz

ADD CEPT-15/22/1

- 133 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº A1 relative à l'utilisation de la bande 136 - 137 MHz par le service mobile aéronautique (R)

RESOLUTION No. Al Relating to the Use of the Band 136 - 137 MHz by the Aeronautical Mobile (R) Service

RESOLUCION N.º A1 relativa a la utilización de la banda 136 - 137 MHz por el servicio móvil aeronáutico (R)

ADD USA/24/781

RESOLUTION Nº A2

relative à l'utilisation des bandes de fréquences attribuées en exclusivité au service mobile aéronautique pour diverses formes de correspondance publique

RESOLUTION No. A2

Relating to the Use of Frequency Bands Allocated Exclusively to the Aeronautical Mobile Service for Various Forms of Public Correspondence

RESOLUCION N.º A2

relativa a la utilización de las bandas de frecuencias atribuidas exclusivamente al servicio móvil aeronáutico por las diversas formas de correspondencia pública

ADD USA/24/782

RESOLUTION Nº A3

relative à la mise en oeuvre de la nouvelle disposition des bandes de radiotélégraphie et de radiotéléphonie attribuées au service mobile maritime entre 4 000 kHz et 27 500 kHz

RESOLUTION No. A3

Relating to the Implementation of the New Arrangement of Radiotelegraphy and Radiotelephony Bands Allocated to the Maritime Mobile Service Between 4 000 kHz and 27 500 kHz

RESOLUCION N.º A3

relativa a la aplicación de la nueva disposición de las bandas de radiotelegrafía y radiotelefonía comprendidas entre 4 000 kHz y 27 500 kHz atribuidas al servicio móvil marítimo

ADD USA/24/783

- 134 -MOB-87/DT/1A-F/E/S

RESOLUTION N^O A4 Transmissions de données par des radiophares maritimes

RESOLUTION No. A4 Data Transmissions from Maritime Radiobeacons

RESOLUCION N.º A4 Transmisiones de datos desde radiofaros marítimos

ADD USA/24/784

RESOLUTION Nº A5

relative à la date d'entrée en vigueur de la bande de garde de 10 kHz pour la fréquence 500 kHz dans le service mobile (détresse et appel)

RESOLUTION No. A5

Relating to the Date of Entry Into Force of the 10 kHz Guardband for the Frequency 500 kHz in the Mobile Service (Distress and Calling)

RESOLUCION N.º A5

relativa a la fecha de entrada en vigor de la banda de guarda de 10 kHz para la frecuencia de 500 kHz en el servicio móvil (frecuencia de socorro y llamada)

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ADD USA/24/785

RESOLUTION Nº A6

relative à l'établissement d'allotissements initiaux de voies radiotéléphoniques duplex supplémentaires dans les bandes rendues disponibles

RESOLUTION No. A6

Relating to the Establishment of Initial Allotments of Additional Duplex Radiotelephone Channels in Newly Available Spectrum

RESOLUCION N.º A6

relativa al establecimiento de adjudicaciones iniciales de los canales adicionales de la radiotelefonía en dúplex del espectro recientemente disponible

- 135 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº A7

Voies spécialisées du service mobile maritime en ondes décamétriques pour la diffusion d'informations sur la sécurité maritime en haute mer

RESOLUTION No. A7

Dedicated HF Maritime Mobile Channels for Broadcast of High Seas Marine Safety Information

RESOLUCION N.º A7

Canales especializados de ondas decamétricas en el servicio móvil marítimo para la radiodifusión de información sobre la seguridad de la navegación en alta mar

ADD USA/24/787

RESOLUTION Nº A8

relative à l'introduction de dispositions pour les communications automatiques de détresse et de sécurité en mer et le maintien des dispositions de détresse et de sécurité existantes

RESOLUTION No. A8

Relating to the Introduction of Provisions for Automated Communications for Maritime Distress and Safety and the Continuation of the Existing distress and safety Provisions

RESOLUCION N.º A8

relativa a la introducción de disposiciones sobre comunicaciones automatizadas de socorro y seguridad marítimos y sobre la continuación de las actuales disposiciones sobre socorro y seguridad

ADD USA/24/788

RESOLUTION Nº A9

relative au transfert d'assignations de fréquence des stations fonctionnant conformément à l'appendice 25

RESOLUTION No. A9 Relating to the Transfer of Frequency Assignments of Stations Operating in Accordance with Appendix 25

RESOLUCION N.º A9

relativa a la transferencia de las asignaciones de frecuencia de las estaciones que funcionan conforme al apéndice 25

- 136 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº A10

relative au transfert des assignations de fréquence de stations fonctionnant dans les bandes attribuées exclusivement aux stations côtières de radiotélégraphie dans le service mobile maritime entre 4 000 kHz et 23 000 kHz

RESOLUTION No. A10

Relating to the Transfer of Frequency Assignments of Stations Operating in the Bands Allocated Exclusively to Coast Radiotelegraphy in the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz

RESOLUCION N.º A10

relativa a la transferencia de las asignaciones de frecuencia de las estaciones que funcionan en las bandas comprendidas entre 4 000 kHz y 23 000 kHz atribuidas exclusivamente a la radiotelegrafía costera del servicio móvil marítimo

ADD USA/24/790

RESOLUTION Nº A11

relative à la définition de procédures d'utilisation et de notification des fréquences appariées réservées aux systèmes à bande étroite de télégraphie à impression directe et de transmission de données

RESOLUTION No. All

Relating to the Establishment of Procedures for the Use and Notification of the Paired Frequencies for Narrow-Band Direct-Printing Telegraph and Data Transmission

RESOLUCION N.º All

relativa al establecimiento de procedimientos de utilización y notificación de frecuencias asociadas por pares para la telegrafía de impresión directa en banda estrecha y de transmisión de datos

- 137 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº A12

relative au transfert des assignations de fréquence appariées réservées aux systèmes à bande étroite de télégraphie à impression directe et de transmission de données

RESOLUTION No. A12

Relating to the Transfer of Paired Frequency Assignments Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems

RESOLUCION N.º A12

relativa a la transferencia de las asignaciones de frecuencia asociadas por pares reservadas para los sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos

ADD USA/24/792

RESOLUTION Nº A13 relative à la protection mutuelle des services de radiocommunication fonctionnant dans la bande 70 - 130 MHz

> RESOLUTION No. A13 Relating to the Mutual Protection of Radio Services Operating in the Band 70 - 130 MHz

RESOLUCION N.º A13 relativa a la protección mutua de los servicios radioeléctricos que funcionan en la banda 70 - 130 MHz

ADD USA/24/793

RESOLUTION N^O A14 Exploitation du service fixe dans la bande 90 - 110 kHz

RESOLUTION No. A14 Operation in the Fixed Service in the Band 90 - 110 kHz

RESOLUCION N.º A14 Explotación del servicio fijo en la banda 90 - 110 kHz

RESOLUTION Nº A

relative à l'introduction de dispositions applicables aux communications automatiques de détresse et de sécurité en mer et à la continuation des systèmes de détresse et de sécurité existants

RESOLUTION No. A

Relating to the Introduction of Provisions for Automated Communications for Maritime Distress and Safety and the Continuation of the Existing Distress and Safety Provisions

RESOLUCION N.º A

relativa a la introducción de disposiciones sobre comunicaciones automáticas de socorro y seguridad marítimos y a la continuación de las disposiciones ya existentes sobre socorro y seguridad

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ADD CAN/25/459

RESOLUTION Nº B

relative à la nécessité d'établir un plan d'allotissement pour les fréquences appariées destinées aux systèmes à impression directe à bande étroite (IDBE) et de transmission de données

RESOLUTION No. B

Relating to the Need for an Allotment Plan for Paired Frequencies for Narrow-Band Direct-Printing (NBDP) and Data Systems

RESOLUCION N.º B

relativa a la necesidad de un plan de adjudicación de frecuencias asociadas por pares para sistemas de telegrafía de impresión directa de banda estrecha (IDBE) y sistemas de transmisión de datos

ADD CAN/25/499(Add.2)

- 139 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº C

relative à la nécessité d'apporter des améliorations techniques afin de minimiser le risque de brouillage préjudiciable causé par les voies adjacentes entre les assignations utilisées pour les systèmes à bande étroite de télégraphie à impression directe (IDBE) et de transmission de données conformément à l'appendice 32 et à la Résolution N° D

RESOLUTION No. C

Relating to the Need for Technical Improvements to Minimize the Risk of Adjacent Channel Harmful Interference between Assignments Used for Narrow-Band Direct-Printing (NBDP) Telegraphy and Data Systems in Accordance with Appendix 32 and Resolution No. D

RESOLUCION N.º C

relativa a la necesidad de mejoras técnicas para minimizar el riesgo de causar interferencia perjudicial a los canales adyacentes entre asignaciones utilizadas para sistemas de telegrafía de impresión directa de banda estrecha (IDBE) y sistemas de transmisión de datos, de conformidad con el Apéndice 32 y la Resolución N.º D

ADD CAN/25/500(Add.2)

RESOLUTION Nº D

relative à la notification et à l'utilisation des fréquences appariées réservées aux systèmes à bande étroite de télégraphie à impression directe et de transmission de données fonctionnant dans les bandes d'ondes décamétriques attribuées au service mobile maritime (Appendice 32)

RESOLUTION No. D

Relating to the Notification and Use of Paired Frequencies Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems in the HF Bands Allocated the Maritime Mobile Service (Appendix 32)

RESOLUCION N.º D

relativa a la notificación y utilización de frecuencias asociadas por pares reservadas para sistemas de telegrafía de impresión directa de banda estrecha y sistemas de transmisión de datos en las bandas de ondas decamétricas atribuidas al servicio móvil marítimo (Apéndice 32)

ADD CAN/25/501(Add.2)

- 140 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº E

relative à la nécessité pour l'IFRB d'étudier la question de l'inclusion des plans régionaux dans le Règlement des radiocommunications et de présenter un rapport en la matière à la Conférence de plénipotentiaires de 1989

RESOLUTION No. E

Relating to the Need for the IFRB to Study the Question of Including Regional Plans in the Radio Regulations and Submit a Report to the 1989 Plenipotentiary Conference on the Matter

RESOLUCION N.º E

relativa a la necesidad de que la IFRB estudie la cuestión de incluir planes regionales en el Reglamento de Radiocomunicaciones y de someter un informe a la Conferencia de Plenipotenciarios de 1989 al respecto

ADD CAN/25/502(Add.2)

RESOLUTION Nº 1

901 244 254

Utilisation de la fréquence 156,525 MHz pour l'appel sélectif numérique dans le service mobile maritime

RESOLUTION No. 1 Use of Frequency 156.525 MHz for Digital Selective Calling in the Maritime Mobile Service

RESOLUCION N.º 1 Utilización de la frecuencia de 156,525 MHz para la llamada selectiva digital en el servicio móvil marítimo

ADD D/30/100

- 141 -MOB-87/DT/1A-F/E/S

RESOLUTION URSS .../A

relative à l'application et à l'utilisation des règles et procédures spécifiées aux chapitres IX et IXA du Règlement des radiocommunications

RESOLUTION USSR .../A

Application and Use of the Rules and Procedures Specified in Chapters IX and IXA of the Radio Regulations

RESOLUCION URSS .../A

relativa a la aplicación y utilización de las disposiciones y procedimientos especificados en los capítulos IX y IXA del Reglamento de Radiocomunicaciones

ADD URS/32/9

RESOLUTION URSS .../B

relative au transfert des assignations de fréquence des stations radiotélégraphiques côtières fonctionnant dans les bandes attribuées en exclusivité au service mobile maritime, entre 4 000 kHz et 23 000 kHz

RESOLUTION USSR .../B

Transfer of Frequency Assignments of Coast Radiotelegraph Stations Operating in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz

RESOLUCION URSS .../B

Transferencia de asignaciones de frecuencia de las estaciones radiotelegráficas costeras que funcionan en las bandas atribuidas exclusivamente al servicio móvil marítimo entre 4 000 kHz y 23 000 kHz

ADD URS/32/172

- 142 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº [UK/A]

relative aux dispositions à prendre pour établir un service mondial de correspondance publique aéronautique

RESOLUTION No. [UK/A]

Relating to the Provisions for the Development of a Worldwide Service of Aeronautical Public Correspondence

RESOLUCION N.º [UK/A]

relativa a las disposiciones para el establecimiento de un servicio mundial de correspondencia pública aeronáutica

ADD G/33/1

RESOLUTION UK/B

relative à l'inclusion, dans le Règlement des télécommunications, de dispositions concernant la taxation et la comptabilité pour la correspondance publique dans le service mobile maritime et le service mobile maritime par satellite et aux modifications consécutives de l'article 66 du Règlement des Radiocommunications

RESOLUTION UK/B

Relating to the Inclusion in the Telecommunication Regulations of Provisions Concerning Charging and Accounting for Public Correspondence in the Maritime Mobile Service and the Maritime Mobile-Satellite Service and Consequential Modifications to Article 66 of the Radio Regulations

RESOLUCION UK/B

relativa a la inclusión en el Reglamento de las Telecomunicaciones de disposiciones sobre tasación y contabilidad de la correspondencia pública en el servicio móvil marítimo y en el servicio móvil marítimo por satélite y consiguiente modificación del artículo 66 del Reglamento de Radiocomunicaciones

ADD G/33/369

RESOLUTION UK/C

relative à l'utilisation non autorisée de fréquences dans les bandes attribuées au service mobile maritime et au service mobile aéronautique (R)

RESOLUTION UK/C

Relating to the Unauthorized Use of Frequencies in the Bands Allocated to the Maritime Mobile Service and to the Aeronautical Mobile (R) Service

RESOLUCION UK/C

relativa a la utilización no autorizada de frecuencias en las bandas atribuidas al servicio móvil marítimo y al servicio móvil aeronáutico (R)

ADD G/33/370

- 143 -MOB-87/DT/1A-F/E/S

RESOLUTION AUS-A

relative à l'introduction de dispositions pour les communications automatiques de détresse et de sécurité en mer et le maintien des dispositions de détresse et de sécurité existantes

RESOLUTION AUS-A

Relating to the Introduction of Provisions for Automated Communications for Distress and Safety and the Continuation of the Existing Distress and Safety Provisions

RESOLUCION AUS-A

relativa a la introducción de disposiciones para las comunicaciones automatizadas de socorro y seguridad y a la continuación de las actuales disposiciones de socorro y seguridad

ADD AUS/40/437

RESOLUTION AUS-B

relative à l'utilisation des bandes de fréquences attribuées en exclusivité au service mobile aéronautique pour diverses formes de correspondance publique

RESOLUTION AUS-B

Relating to the Use of Frequency Bands Allocated Exclusively to the Aeronautical Mobile Service for Various Forms of Public Correspondence

RESOLUCION AUS-B

relativa a la utilización de las bandas de frecuencias atribuidas exclusivamente al servicio móvil aeronáutico para las diversas formas de correspondencia pública

ADD AUS/40/438

RESOLUTION AUS-C

relative à une voie spécialisée du service mobile maritime en ondes décamétriques pour la diffusion de données NAVTEX sur une fréquence 4 MHz

RESOLUTION AUS-C

Relating to a Dedicated HF Marine Mobile Channel for the Broadcast of NAVTEX Data on a 4 MHz Frequency

RESOLUCION AUS-C

relativa a un canal dedicado del servicio móvil marítimo en ondas decamétricas para la difusión de datos NAVTEX en una frecuencia de la banda de 4 MHz

ADD AUS/40/439

- 144 -MOB-87/DT/1A-F/E/S

RESOLUTION AUS-D

relative aux voies spécialisées du service mobile maritime en ondes décamétriques pour la diffusion d'informations sur la sécurité maritime en haute mer

RESOLUTION AUS-D Relating to Dedicated HF Maritime Mobile Channels for the Broadcast of High Seas Marine Safety Information

RESOLUCION AUS-D

relativa a los canales dedicados del servicio móvil marítimo pára la difusión de información sobre seguridad en alta mar

ADD AUS/40/440

RESOLUTION Nº A

relative à l'introduction de dispositions applicables aux communications du service mondial de détresse et de sécurité (SMDSM) et à la poursuite de l'application des dispositions actuelles pour la détresse et la sécurité

RESOLUTION No. A

Relating to the Introduction of Provisions for the Communications of the Global Maritime Distress and Safety System (GMDSS) and for the Continuation of the Existing Distress and Safety Regulations

RESOLUCION N.º A

relativa a la introducción de disposiciones sobre las comunicaciones del Sistema Mundial de Socorro y Seguridad Marítimos (SMSSM) y sobre la continuación de las actuales disposiciones sobre socorro y seguridad

ADD E/43/293

- 145 -MOB-87/DT/1A-F/E/S

RESOLUTION Nº ...

relative à l'utilisation des voies pour l'appel sélectif numérique dans les bandes d'ondes décamétriques attribuées au service maritime

RESOLUTION No. ... Relating to the Use of Channels for Digital Selective Calling in the Maritime HF Bands

RESOLUCION N.º ...

relativa a la utilización de canales para llamada selectiva digital en las bandas de ondas decamétricas atribuidas al servicio móvil marítimo

ADD DNK/FNL/ISL/NOR/S/52/1

RESOLUTION (HOL C)

relative aux procédures applicables aux stations émettant des avertissements concernant la navigation et la météorologie et des informations urgentes destinées aux navires sur les fréquences 518 kHz (NAVTEX) et 490 kHz à l'aide d'un système automatique de télégraphie à impression directe à bande étroite

RESOLUTION (HOL/C)

Relating to the Procedures Applicable to Stations Transmitting Navigational and Meteorological Warnings and Urgent Information to Ships on the Frequencies 518 kHz (NAVTEX) and 490 kHz using Automatic Narrow-Band Direct-Printing Telegraphy

RESOLUCION (HOL/C)

relativa a los procedimientos aplicables a las estaciones que transmiten avisos a los navegantes y boletines meteorológicos e información urgente a los barcos en las frecuencias de 518 kHz (NAVTEX) y 490 kHz por telegrafía automática de impresión directa de banda estrecha

ADD HOL/55/1

- 146 -MOB-87/DT/1A-E/F/S

RESOLUTION Nº 8A

relative à la mise en oeuvre des modifications d'attributions dans les bandes comprises entre 4 000 kHz et 27 500 kHz

RESOLUTION No. 8A Relating to Implementation of the Changes in Allocations in the Bands Between 4 000 kHz and 27 500 kHz

RESOLUCION N.º 8A

relativa a la aplicación de las modificaciones de atribuciones en las bandas comprendidas entre 4 000 kHz y 27 500 kHz

ADD J/60/651

RESOLUTION A

relative à l'introduction d'une disposition concernant les communications automatiques de détresse et de sécurité et au maintien des dispositions actuelles relatives à la détresse et à la sécurité

RESOLUTION A

Relating to the Introduction of Provision for Automated Communications for Distress and Safety and the Continuation of the Existing Distress and Safety Provisions

RESOLUCION A

relativa a la introducción de disposiciones sobre comunicaciones automatizadas para socorro y seguridad y el mantenimiento de las actuales disposiciones de socorro y seguridad

13 1771 112

ADD J/60/662

RESOLUTION Nº 407A relative l'utilisation non autorisée des fréquences des bandes attribuées au service mobile aéronautique (R)

RESOLUTION No. 407A Relating to the Unauthorised Use of Frequencies in the Bands Allocated to the Aeronautical Mobile (R) Service

RESOLUCION N.º 407A

relativa a la utilización no autorizada de frecuencias de las bandas atribuidas al servicio móvil aeronáutico (R)

ADD PRG/61/149

- 147 -MOB-87/DT/1A-F/E/S

RESOLUTION XX

relative à la date de mise en oeuvre de la bande de garde de 10 kHz pour la fréquence 500 kHz dans le service mobile (détresse et appel)

RESOLUTION XX

Relating to the Date of Entry Into Force of the 10 kHz Guardband for the Frequency 500 kHz in the Mobile Service (Distress and Calling)

RESOLUCION XX

relativa a la fecha de entrada en vigor de la banda de guarda de 10 kHz para la frecuencia de 500 kHz en el servicio móvil (socorro y llamada)

ADD CHN/63/23

RESOLUTION Z

relative à la mise en oeuvre, à une date rapprochée, de signaux numériques spéciaux dans les voies radiotéléphoniques maritimes à ondes décamétriques, pour l'exploitation des systèmes de téléphonie automatiques

RESOLUTION Z

Relating to Early Implementation of the Use of Special Digital Signals on Maritime HF Radiotelephone Channels for the Operation of Automatic Telephony Systems

RESOLUCION Z

relativa a la pronta aplicación del empleo de señales digitales especiales en los canales de radiotelefonía marítima en ondas decamétricas para la explotación de los sistemas de telefonía automática

ADD G/64/2

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- 149 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 7

relative à l'adoption de modèles normalisés de licences délivrées aux stations de navire et aux stations d'aéronef

RECOMMENDATION No. 7 Relating to the Adoption of Standard Forms for Ship Station Licenses and Aircraft Station Licenses

RECOMENDACION N.º 7 relativa a la adopción de formularios normalizados para las licencias de las estaciones de barco y de aeronave

MOD	B/57/325-B/57/332		CHN/63/24-CHN/63/34	
NOC	DDR/7/68	CAN/25/460	KEN/58/20	

RECOMMANDATION Nº 8 relative à l'identification automatique des stations

RECOMMENDATION No. 8 Relating to Automatic Identification of Stations

RECOMENDACION N.º 8 relativa a la identificación automática de las estaciones

SUP DDR/7/69

NOC G/33/371

- 150 -MOB-87/DT/1A-F/E/S

RECOMMANDATION N° 201 (Rév.Mob-83) relative au trafic de détresse, d'urgence et de sécurité

RECOMMENDATION No. 201 (Rev.Mob-83) Relating to Distress, Urgency and Safety Traffic

RECOMENDACION N.º 201 (Rev.Mob-83) relativa al tráfico de socorro, urgencia y seguridad

SUP DDR/7/70 USA/24/795 G/33/372

RECOMMANDATION Nº 203 relative à l'utilisation future de la bande 2 170 - 2 194 kHz

RECOMMENDATION No. 203 Relating to the Future Use of the Band 2 170 - 2 194 kHz

RECOMENDACION N.º 203 relativa al futuro empleo de la banda 2 170 - 2 194 kHz

SUP DDR/7/71 USA/24/796 G/33/373

- 151 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 204 (Rév.Mob-83) relative à l'application des chapitres IX, X, XI et XII du Règlement des radiocommunications

RECOMMENDATION No. 204 (Rev.Mob-83) Relating to the Application of Chapters IX, X, XI and XII of the Re-Arranged Radio Regulations

RECOMENDACION N.º 204 (Rev.Mob-83) relativa a la aplicación de los capítulos IX, X, XI y XII del Reglamento de Radiocomunicaciones

SUP	DDR/7/72	USA/24/797	CAN/25/461	G/33/374
	B/57/333	J/60/663		

RECOMMANDATION Nº 300

relative à la planification de l'utilisation des fréquences par le service mobile maritime dans la bande 435 - 526,5 kHz dans la Région l

RECOMMENDATION No. 300

Relating to Planning the Use of Frequencies by the Maritime Mobile Service in the Band 435 - 526.5 kHz in Region 1

RECOMENDACION N.º 300

relativa a la planificación del empleo de frecuencias por el servicio móvil marítimo en la banda 435 - 526,5 kHz en la Región l

SUP DDR/7/73 USA/24/798 G/33/375

- 152 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 301

relative à la planification de l'utilisation des fréquences dans les bandes attribuées au service mobile maritime entre 1 606,5 kHz et 3 400 kHz dans la Région l

RECOMMENDATION No. 301

Relating to Planning for the Use of Frequencies in the Bands Between 1 606.5 kHz and 3 400 kHz Allocated to the Maritime Mobile Service in Region 1

RECOMENDACION N.º 301

relativa a la planificación de la utilización de frecuencias en las bandas atribuidas al servicio móvil marítimo entre l 606,5 kHz y 3 400 kHz en la Región l

SUP DDR/7/74 USA/24/799 G/33/376

RECOMMANDATION Nº 302

relative à une meilleure utilisation des voies radiotéléphoniques à ondes décamétriques par les stations côtières dans les bandes de fréquences attribuées en exclusivité au service mobile maritime

RECOMMENDATION No. 302

Relating to the Improved Use of the HF Radiotelephone Channels for Coast Stations in the Bands Allocated Exclusively to the Maritime Mobile Service

RECOMENDACION N.º 302

relativa a una mejor utilización de los canales radiotelefónicos en ondas decamétricas para las estaciones costeras en las bandas atribuidas exclusivamente al servicio móvil marítimo

MOD G/33/377-G/33/381

NOC CAN/25/462

÷

- 153 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 303

relative à l'utilisation des fréquences porteuses 4 125 kHz et 6 215,5 kHz en plus de la fréquence porteuse 2 182 kHz, aux fins de détresse et de sécurité ainsi que pour l'appel et la réponse dans la zone des Régions 1 et 2 située au sud du parallèle 15° Nord, y compris le Mexique, et dans la zone de la Région 3 située au sud du parallèle 25° Nord

RECOMMENDATION No. 303

Relating to the Use of the Carrier Frequencies 4 125 kHz and 6 215.5 kHz to Supplement the Carrier Frequency 2 182 kHz for Distress and Safety and for Call and Reply Purposes in the Zone of Regions 1 and 2 South of Latitude 15° N, but including Mexico, and in the Zone of Region 3 South of Latitude 25° N

RECOMENDACION N.º 303

relativa a la utilización de las frecuencias portadoras de 4 125 kHz y 6 215,5 kHz, además de la frecuencia portadora de 2 182 kHz, para fines de socorro y de seguridad, y para llamada y respuesta, en la zona de las Regiones l y 2 situada al sur del paralelo 15° Norte, incluido México, y en la zona de la Región 3 situada al sur del paralelo 25° Norte

 MOD
 USA/24/800-USA/24/805
 AUS/40/441-AUS/40/448

 NOC
 DDR/7/75
 G/33/382
 KEN/58/21

RECOMMANDATION Nº 304

relative aux fréquences de l'appendice 16 (section B) au Règlement des radiocommunications, destinées à être utilisées dans le monde entier par les navires de toutes catégories ainsi que par les stations côtières

RECOMMENDATION No. 304

Relating to the Frequencies in Appendix 16, Section B, of the Radio Regulations, Provided for Worldwide Use by Ships of All Categories and by Coast Stations

RECOMENDACION N.º 304

relativa a las frecuencias del apéndice 16 (Sección B) al Reglamento de Radiocomunicaciones previstas para su utilización en el mundo entero por los barcos de todas las categorías y por las estaciones costeras

MOD G/33/383-G/33/385

NOC CAN/25/463

- 154 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 305 relative à l'utilisation des voies 15 et 17 de l'appendice 18 par les stations de communications de bord

RECOMMENDATION No. 305 Relating to the Use of Channels 15 and 17 of Appendix 18 by On-Board Communications Stations

RECOMENDACION N.º 305 relativa a la utilización de los canales 15 y 17 del apéndice 18 por las estaciones de comunicaciones a bordo

SUP DDR/7/76 G/33/386

RECOMMANDATION N^O 306 relative à l'établissement d'une veille sur la fréquence 156,8 MHz par les stations côtières aux fins de détresse

RECOMMENDATION No. 306 Relating to the Establishment of a Watch by Coast Stations for Distress Purposes on the Frequency 156.8 MHz

RECOMENDACION N.º 306 relativa al establecimiento de una escucha para fines de socorro por las estaciones costeras en la frecuencia de 156,8 MHz

SUP G/33/387

NOC DDR/7/77 CAN/25/464 KEN/58/22

- 155 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 307 relative au choix, dans les bandes du service mobile maritime comprises entre l 605 kHz et 3 800 kHz, d'une fréquence réservée aux besoins de la sécurité

RECOMMENDATION No. 307 On the Choice of a Frequency in the Maritime Mobile Bands Between 1 605 kHz and 3 800 kHz to be Reserved for Safety Requirements

RECOMENDACION N.º 307

relativa a la elección de una frecuencia reservada para fines de seguridad en las bandas comprendidas entre l 605 kHz y 3 800 kHz reservadas al servicio móvil marítimo

SUP DDR/7/78 USA/24/806 G/33/388

RECOMMANDATION Nº 308

relative à la désignation de fréquences des bandes d'ondes hectométriques à utiliser en commun par les stations côtières radiotéléphoniques pour les communications avec les stations de navire de nationalités autres que la leur

RECOMMENDATION No. 308

Relating to the Designation of Common Frequencies in the Medium Frequency Bands for Use by Coast Radiotelephone Stations for Communicating with Ships of other Nationalities

RECOMENDACION N.º 308

relativa a la designación de frecuencias en las bandas de ondas hectométricas para uso común de las estaciones costeras radiotelefónicas en sus comunicaciones con barcos de nacionalidad distinta a la suya

SUP DDR/7/79 USA/24/807 CAN/25/465 G/33/389

- 156 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 310

relative à un système automatique de radiocommunications sur ondes décimétriques pour le service mobile maritime

RECOMMENDATION No. 310 Relating to an Automated UHF Maritime Mobile Radiocommunication System

RECOMENDACION N.º 310 relativa a un sistema automático de radiocomunicaciones por ondas decimétricas para el servicio móvil marítimo

NOC DDR/7/79A

Voir note/See Note/Véase Nota G/33/390

RECOMMANDATION Nº 311

relative à l'utilisation d'un signal à fréquence acoustique consécutif au signal d'alarme radiotéléphonique émis par les stations côtières

RECOMMENDATION No. 311

Relating to the Introduction of an Additional Tone after the Radiotelephone Alarm Signal Transmitted by Coast Stations

RECOMENDACION N.º 311

relativa a la utilización de un tono consecutivo a la señal radiotelefónica de alarma transmitida por las estaciones costeras

SUP CAN/25/466 G/33/391

NOC DDR/7/80

- 157 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 312

relative aux études de l'interconnexion des systèmes de radiocommunications mobiles maritimes avec les réseaux téléphonique et télégraphique internationaux

> RECOMMENDATION No. 312 Relating to Studies in the Interconnection of Maritime Mobile Radiocommunication Systems with the International Telephone and Telegraph Networks

RECOMENDACION N.º 312

relativa a los estudios sobre la interconexión de los sistemas de radiocomunicaciones móviles marítimos con la red telefónica y la red telegráfica internacionales

SUP G/33/392

NOC CAN/25/467

RECOMMANDATION Nº 313 (Rév.Mob-83) relative à des dispositions temporaires concernant les aspects techniques et d'exploitation du service mobile maritime par satellite

RECOMMENDATION No. 313 (Rev.Mob-83) Relating to Temporary Provisions Covering the Technical and Operational Aspects of the Maritime Mobile-Satellite Service

RECOMENDACION N.º 313 (Rev.Mob-83) relativa a la adopción de disposiciones provisionales sobre aspectos técnicos y de explotación del servicio móvil marítimo por satélite

SUP DDR/7/81 G/33/393

- 158 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 314 (Mob-83)

relative à une fréquence radiotéléphonique de la bande des 8 MHz à utiliser en exclusivité pour le trafic de détresse et de sécurité dans le futur système mondial de détresse et de sécurité en mer (FSMDSM)

RECOMMENDATION No. 314 (Mob-83)

Relating to a Radiotelephone Frequency in the 8 MHz Band for Exclusive Use for Distress and Safety Traffic in the Future Global Maritime Distress and Safety System (FGMDSS)

RECOMENDACION N.º 314 (Mob-83) relativa a la frecuencia radiotelefónica en la banda de 8 MHz para uso exclusivo en el tráfico de socorro y seguridad en el futuro sistema mundial de socorro y seguridad marítimos (FSMSSM)

SUP ARG/5/110 DDR/7/82 USA/24/808 CAN/25/468 G/33/394

RECOMMANDATION Nº 315 (Mob-83) relative à l'appel sélectif numérique côtière-navire dans la bande des 500 kHz

RECOMMENDATION No. 315 (Mob-83) Relating to Shore-Ship Digital Selective Calls in the Band around 500 kHz

RECOMENDACION N.º 315 (Mob-83) relativa a las llamadas selectivas digitales costera-barco en la banda de 500 kHz

SUP DDR/7/83 G/33/395

- 159 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 316 (Mob-83)

relative à l'utilisation de stations terriennes de navire à l'intérieur des eaux portuaires et des autres eaux soumises à la juridiction nationale

RECOMMENDATION No. 316 (Mob-83) Relating to the Use of Ship Earth Stations Within Harbours and Other Waters Under National Jurisdiction

RECOMENDACION N.º 316 (Mob-83) relativa al uso de estaciones terrenas de barco en los puertos y otras aguas bajo jurisdicción nacional

SUP USA/24/809 HOL/54/2 (voir/<u>see</u>/véase ADD Rec. HOL/B : HOL/54/1) MOD G/33/396-G/33/404 CAN/25/492-CAN/25/497(Add.1)

RECOMMANDATION Nº 317 (Mob-83)

relative à l'utilisation d'un signal indicateur de priorité pour rappeler aux navires d'envoyer leurs rapports de position en retard et demander aux autres navires de signaler des repérages éventuels

RECOMMENDATION No. 317 (Mob-83) Relating to the Use of a Priority Indicator Signal for Alerting Ships to Send Overdue Position Reports and for Other Ships to Report Sightings

RECOMENDACION N.º 317(Mob-83) relativa a la utilización de la señal indicadora de prioridad para señalar a los barcos la necesidad de enviar informes de posición retrasados y para que los demás barcos envíen informes de avistado

Voir Note/See Note/Véase Nota G/33/405

- 160 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 400

relative au passage du Plan actuel au nouveau Plan d'allotissement de fréquences dans les bandes attribuées en exclusivité au service mobile aéronautique (R) entre 2 850 kHz et 22 000 kHz

RECOMMENDATION No. 400

Relating to the Transition from the Present to the New Frequency Allotment Plan in the Bands Allocated Exclusively to the Aeronautical Mobile (R) Service Between 2 850 kHz and 22 000 kHz

RECOMENDACION N.º 400

relativa a la transición del Plan actual al nuevo Plan de adjudicación de frecuencias en las bandas atribuidas exclusivamente al servicio móvil aeronáutico (R) entre 2 850 kHz y 22 000 kHz

 SUP
 DDR/7/84
 USA/24/810
 CAN/25/469
 G/33/406

 E/39/7
 AUS/40/449
 KEN/58/23
 G/33/406

RECOMMANDATION Nº 401

relative à l'emploi efficace des fréquences du service mobile aéronautique (R) désignées pour utilisation mondiale

RECOMMENDATION No. 401 Relating to the Efficient Use of Aeronautical Mobile (R) Worldwide Frequencies

RECOMENDACION N.º 401

relativa a la utilización eficaz de las frecuencias del servicio móvil aeronáutico (R) previstas para uso mundial

NOC G/33/407

- 161 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 402

relative à la coopération en vue de l'emploi efficace des fréquences du service mobile aéronautique (R) désignées pour utilisation mondiale

RECOMMENDATION No. 402

Relating to Cooperation in the Efficient Use of Worldwide Frequencies in the Aeronautical Mobile (R) Service

RECOMENDACION N.º 402

relativa a la cooperación para la utilización eficaz de las frecuencias del servicio móvil aeronáutico (R) previstas para uso mundial

NOC G/33/408

RECOMMANDATION Nº 403

relative à la mise au point de techniques qui contribueront à réduire l'encombrement des bandes d'ondes décamétriques attribuées au service mobile aéronautique (R)

RECOMMENDATION No. 403

Relating to the Development of Techniques Which Would Help to Reduce Congestion in the High Frequency Bands Allocated to the Aeronautical Mobile (R) Service

RECOMENDACION N.º 403

relativa a la elaboración de técnicas que contribuyen a reducir la congestión en las bandas decamétricas atribuidas al servicio móvil aeronáutico (R)

NOC G/33/409

- 162 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 404 relative à l'utilisation de la bande 136 - 137 MHz par le service mobile aéronautique (R)

RECOMMENDATION No. 404 Relating to the Use of the Band 136 - 137 MHz by the Aeronautical Mobile (R) Service

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RECOMENDACION N.º 404 relativa a la utilización de la banda 136 - 137 MHz por el servicio móvil aeronáutico (R)

NOC G/33/410

MOD B/57/334

RECOMMANDATION N° 405 relative à une étude de l'utilisation du service mobile aéronautique (R) par satellite

RECOMMENDATION No. 405 Relating to a Study of the Utilization of the Aeronautical Mobile-Satellite (R) Service

RECOMENDACION N.º 405 relativa a un estudio sobre la utilización del servicio móvil aeronáutico (R) por satélite

NOC	DDR/7/85	CAN/25/470	G/33/411	AUS/40/450
	KEN/58/24			

- 163 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 406 relative à la révision du Plan d'allotissement des fréquences pour le service mobile aéronautique (OR)

RECOMMENDATION No. 406 Relating to the Revision of the Frequency Allotment Plan for the Aeronautical Mobile (OR) Service

RECOMENDACION N.º 406 relativa a la revisión del Plan de adjudicación de frecuencias para el servicio móvil aeronáutico (OR)

NOC DDR/7/86 KEN/58/25

RECOMMANDATION Nº 600 relative à l'utilisation de la bande de fréquences 9 300 - 9 500 MHz

RECOMMENDATION No. 600 Relating to the Use of the Frequency Band 9 300 - 9 500 MHz

RECOMENDACION N.º 600 relativa a la utilización de la banda 9 300 - 9 500 MHz

SUP USA/24/811

MOD G/33/412-G/33/414

NOC CAN/25/471

- 164 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 601

concernant les fréquences à utiliser dans le service de radionavigation aéronautique pour un système destiné à éviter les collisions entre aéronefs

RECOMMENDATION No. 601

Concerning the Matter of Providing a Suitable Frequency Allocation for a Collision Avoidance System in the Aeronautical Radionavigation Service

RECOMENDACION N.º 601

relativa a las frecuencias que hay que utilizar en el servicio de radionavegación aeronáutica para un sistema destinado a evitar los choques entre aeronaves

NOC DDR/7/87

KEN/58/26

USA/24/812 G/33/415

AUS/40/451

RECOMMANDATION Nº 602 (Rév.Mob.83)

relative à la planification des fréquences de la bande 283,5 - 315 kHz utilisées par les radiophares maritimes dans la Zone européenne maritime

RECOMMENDATION No. 602 (Rev.Mob-83) Relating to the Planning of Frequencies in the Band 283.5 - 315 kHz Use by the Maritime Radiobeacons in the European Maritime Area

RECOMENDACION N.º 602 (Rev.Mob-83) relativa a la planificación de las frecuencias de la banda 283,5 - 315 kHz utilizadas por los radiofaros marítimos en la Zona Maritima Europea

SUP G/33/416

- 165 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 604 (Rév.Mob-83) relative à l'utilisation future et aux caractéristiques des radiobalises de localisation des sinistres

RECOMMENDATION No. 604 (Rev.Mob-83) Relating to the Future Use and Characteristics of Emergency Position-Indicating Radiobeacons

RECOMENDACION N.º 604 (Rev.Mob-83) relativa a la utilización futura y a las características de las radiobalizas de localización de siniestros

SUP CAN/25/472

MOD G/33/417-G/33/420

NOC DDR/7/88 USA/24/813 AUS/40/452 KEN/58/27

RECOMMANDATION Nº 605 relative aux caractéristiques techniques et aux fréquences des répondeurs à bord des navires

RECOMMENDATION No. 605 Relating to Technical Characteristics and Frequencies for Shipborne Transponders

RECOMENDACION N.º 605 relativa a las características técnicas y a las frecuencias de los respondedores a bordo de los barcos

MOD G/33/421-G/33/422

NOC DDR/7/89

- 166 -MOB-87/DT/1A-F/E/S 72

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RECOMMANDATION Nº 703

relative à la nécessité de faire cesser le fonctionnement des stations des services fixe et mobile dans les bandes de fréquences 149,9 - 150,05 MHz et 399,9 - 400,05 MHz attribuées au service de radionavigation par satellite

RECOMMENDATION No. 703

Relating to the Need to Cease Operations of the Fixed and Mobile Services in the Bands 149.9 - 150.05 MHz and 399.9 - 400.05 MHz Allocated to the Radionavigation-Satellite Service

RECOMENDACION N.º 703

relativa a la necesidad de hacer cesar el funcionamiento de las estaciones de los servicios fijo y móvil en las bandas 149,9 - 150,05 MHz y 399,9 - 400,5 MHz atribuidas al servicio de radionavegación por satélite

SUP USA/24/814 G/33/423

MOD DDR/7/90-DDR/7/92

RECOMMANDATION Nº 707

relative à l'utilisation de la bande de fréquences 32 - 33 GHz, en partage entre le service inter-satellites et le service de radionavigation

RECOMMENDATION No. 707

Relating to the Use of the Frequency Band 32 - 33 GHz Shared Between the Inter-Satellite Service and the Radionavigation Service

RECOMENDACION N.º 707

relativa al empleo de la banda de frecuencias 32 - 33 GHz compartida por el servicio entre satélites y el servicio de radionavegación

NOC DDR/7/93 USA/24/815 G/33/424 AUS/40/453 KEN/58/28

- 167 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 713 (Mob-83) relative à l'utilisation de répondeurs radar pour faciliter les opérations de recherche et sauvetage en mer

RECOMMENDATION No. 713 (Mob-83) Relating to the Use of Radar Transponders for Facilitating Search and Rescue Operations at Sea

RECOMENDACION N.º 713 (Mob-83) relativa al uso de respondedores de radar para facilitar las operaciones de búsqueda y salvamento en el mar

SUP DDR/7/94 USA/24/816 CAN/25/473 G/33/425

NOC AUS/40/454

RECOMMANDATION N^O 1(MM-R1) Remplacement de la fréquence mondiale de travail 425 kHz utilisée par les stations de navire du service mobile maritime

RECOMMENDATION No. 1(MM-R1) Replacement of the Worldwide Maritime Mobile Working Frequency 425 kHz

for Ship Stations

RECOMENDACION N.º 1(MM-R1) Sustitución de la frecuencia mundial de trabajo 425 kHz utilizada por las estaciones de barco del servicio móvil marítimo

SUP DDR/7/95 CAN/25/474 G/33/427

- 168 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 2(MM-R1)

Modifications des dispositions du Règlement des radiocommunications relatives à l'utilisation des fréquences 2 047,4 kHz, 2 050,4 kHz, 2 054,4 kHz et 2 057,4 kHz par le service mobile maritime

RECOMMENDATION No. 2(MM-R1)

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

RECOMENDACION N.º 2(MM-R1)

Modificación de disposiciones del Reglamento de Radiocomunicaciones sobre la utilización de las frecuencias 2 047,4 kHz, 2 050,4 kHz, 2 054,4 kHz y 2 057,4 kHz por el servicio móvil marítimo

SUP DDR/7/100 G/33/428

RECOMMANDATION Nº 3(MM-R1)

Disposition des voies pour le service mobile maritime dans les bandes de fréquences planifiées comprises entre 415 et 526,5 kHz dans la Région l

RECOMMENDATION No. 3(MM-R1)

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands Between 415 and 526.5 kHz in Region 1

RECOMENDACION N.º 3(MM-R1)

Disposición de canales del servicio móvil marítimo en las bandas de frecuencias planificadas comprendidas entre 415 y 526,5 kHz en la Región l

SUP DDR/7/97 G/33/429

- 169 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº 4(MM-R1) Disposition des voies pour la radiotélégraphie dans le service mobile maritime dans les bandes de fréquences l 606,5 - l 625 kHz et 2 141,5 - 2 160 kHz dans la Région l

RECOMMENDATION No. 4 (MM-R1) 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

RECOMENDACION N.º 4 (MM-R1)

Disposición de canales en las bandas de frecuencias 1 606,5 - 1 625 kHz y 2 141,5 - 2 160 kHz utilizadas para la radiotelegrafía por el servicio móvil marítimo en la Región l

SUP DDR/7/98 G/33/430

RECOMMANDATION Nº 5(MM-R1)

Disposition des voies pour la radiotéléphonie à bande latérale unique dans le service mobile maritime dans les bandes de fréquences 1 635 - 1 800 kHz et 2 045 - 2 141,5 kHz dans la Région 1

RECOMMENDATION No. 5(MM-R1)

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

RECOMENDACION N.º 5(MM-R1) Disposición de canales para la radiotelefonía en banda lateral única en el servicio móvil marítimo en las bandas de frecuencias l 635 - 1 800 kHz y 2 045 - 2 141,5 kHz en la Región l

SUP DDR/7/99 G/33/431

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RECOMMANDATION Nº 6(MM-R1) Paires de fréquences dans les bandes 435 - 526,5 kHz et 1 606,5 - 2 160 kHz pour les applications nationales et internationales de l'appel sélectif numérique

RECOMMENDATION No. 6(MM-R1)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

RECOMENDACION N.º 6(MM-R1)

Pares de frecuencias en las bandas 435 - 526,5 kHz y 1 606,5 - 2 160 kHz que han de utilizarse para la llamada selectiva digital a efectos nacionales e internacionales

SUP DDR/7/96 G/33/432

RECOMMANDATION Nº 2(EMA) Utilisation de systèmes de radionavigation maritime hyperboliques

RECOMMENDATION No. 2(EMA) Use of the Maritime Radionavigation Hyperbolic Systems

RECOMENDACION N.º 2(EMA) Utilización de sistemas hiperbólicos de radionavegación marítima

SUP G/33/426

- 170 -MOB-87/DT/1A-F/E/S - 171 -MOB-87/DT/1A-F/E/S

NOUVELLES RECOMMANDATIONS PROPOSEES PROPOSED NEW RECOMMENDATIONS NUEVAS RECOMENDACIONES PROPUESTAS

(classées par ordre chronologique des documents) (classified in chronological document order) (ordenadas por orden cronológico de los documentos)

RECOMMANDATION [A] relative à la réduction possible de la bande 4 200 - 4 400 MHz attribuée au service de radionavigation aéronautique

RECOMMENDATION [A] Relating to the Possible Reduction of the Band 4 200 - 4 400 MHz Allocated to the Aeronautical Radionavigation Service

RECOMENDACION [A] relativa a la posible reducción de la banda 4 200 - 4 400 MHz atribuida al Servicio de Radionavegación aeronáutica

ADD CEPT-3/10/11

RECOMMANDATION N° B relative à l'extension des bandes de fréquences attribuées au service mobile par satellite et au service mobile

RECOMMENDATION No. B Relating to the Extension of the Frequency Bands Allocated to the Mobile-Satellite and Mobile Services

RECOMENDACION N.º B relativa a la ampliación de las bandas de frecuencias atribuidas al servicio móvil por satélite y a los servicios móviles

ADD CEPT-4/11/11

- 172 -MOB-87/DT/1A-F/E/S

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47

RECOMMANDATION Nº C

relative à l'amélioration de l'utilisation du spectre radioélectrique dans la bande d'ondes métriques attribuée au service mobile maritime

RECOMMENDATION No. C Relating to Improved Efficiency in the Use of the Frequency Spectrum in the VHF Maritime Mobile Band

RECOMENDACION N.º C relativa a una utilización más eficaz del espectro de frecuencias de la banda de ondas métricas del servicio móvil marítimo

ADD CEPT-16/23/1

RECOMMANDATION N° B1 Efficacité accrue des communications du service mobile maritime de l'appendice 18

RECOMMENDATION No. B1 Improved Efficiency for Appendix 18 Maritime Mobile Communications

> RECOMENDACION N.º B1 Mejora de la eficacia en las comunicaciones del servicio móvil marítimo del apéndice 18

ADD USA/24/817

- 173 -MOB-87/DT/1A-F/E/S

RECOMMANDATION Nº B2

relative l'utilisation de la bande de fréquences l 610,6 - l 613,8 MHz par le service de radiorepérage par satellite et le service de radioastronomie

RECOMMENDATION No. B2

Relating to the Use of the Frequency Band 1 610.6 - 1 613.8 MHz by the Radiodetermination-Satellite and Radio Astronomy Services

RECOMENDACION N.º B2

relativa a la utilización de la banda l 610,6 - l 613,8 MHz por los servicios de radiodeterminación por satélite y de radioastronomía

ADD USA/24/818

RECOMMANDATION [A]

relative à une éventuelle réduction de la bande 4 200 - 4 400 MHz attribuée au service de radionavigation aéronautique

RECOMMENDATION [A]

Relating to the Possible Reduction of the Band 4 200 - 4 400 MHz Allocated to the Aeronautical Radionavigation Service

RECOMENDACION [A]

relativa a la posible reducción de la banda 4 200 - 4 400 MHz atribuida al servicio de radionavegación aeronáutica

ADD G/33/60

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RECOMMANDATION ... relative à la convocation d'une CAMR

RECOMMENDATION ... Relating to the Convening of a WARC

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RECOMENDACION ... relativa a la convocatoria de una CAMR

ADD F/45/1

RECOMMANDATION [A] relative à l'utilisation de voies intercalaires dans l'Appendice 18 et à leur désignation

RECOMMENDATION [A] Relating to the Use and Designation of Interleaved Channels in Appendix 18

RECOMENDACION [A] relativa a la utilización de canales intercalados con los del apéndice 18 y a su designación

ADD F/47/1

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RECOMMANDATION [HOL A]

relative à l'utilisation des bandes de fréquences 1 850 - 2 045 kHz, 2 194 - 2 498 kHz, 2 502 - 2 850 kHz, 3 155 - 3 400 kHz et 3 500 - 3 800 kHz

RECOMMENDATION [HOL A]

Relating to the Use of the Frequency Bands 1 850 - 2 045 kHz, 2 194 - 2 498 kHz, 2 502 - 2 850 kHz, 3 155 - 3 400 kHz and 3 500 - 3 800 kHz

RECOMENDACION [HOL A]

relativa a la utilización de las bandas de frecuencias l 850 - 2 045 kHz, 2 194 - 2 498 kHz, 2 502 - 2 850 kHz, 3 155 - 3 400 kHz y 3 500 - 3 800 kHz

ADD HOL/53/2

RECOMMANDATION [HOL B] relative à l'utilisation de stations terriennes mobiles dans les zones soumises à la juridiction nationale

RECOMMENDATION [HOL B] Relating to the Use of Mobile Earth Stations within Areas Under National Jurisdiction

RECOMENDACION [HOL B] relativa al uso de estaciones terrenas móviles en zonas de jurisdicción nacional

ADD HOL/54/1

NOB-87 UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS CAMR POUR LES SERVICES MOBILES GENÈVE, septembre-octobre 1987

Addendum 1 au 🗸 🗸 Document DT/1B/FES 11 septembre 1987

PROPOSITIONS COORDONNEES COORDINATED PROPOSALS PROPOSICIONES COORDINADAS

(ART. N37 - N40)

Page / Página 39, ADD

<u>Col. 1</u>	ADD N3195ALA - N3195ALB
c ol. 2	AUS/40/472-AUS/40/474(Add.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.



Document DT/1B-E 3 September 1987

Note by the Secretary-General

COORDINATED PROPOSALS CONCERNING THE NEW ARTICLES N37 to N41

I have the honour to submit to the Conference, in pursuance of No. 379 of the Convention, a coordinated list of proposals concerning the above cited <u>new</u> articles.

R.E. BUTLER Secretary-General

Annex : 1

ANNEX

- <u>Notes</u>: 1) This list is established on the basis of proposals contained in Documents 1 70.
 - For the list of countries whose joint proposals have the symbol CEPT-2, CEPT-3, etc. in their index numbers, see Document DT/1A.

Contents of the list

- <u>Col. 1</u> Contains texts proposed by Administrations which are identical to those suggested by IMO and referred to in ITU Circular-Letter No. 151/RM/Z/CSF dated 23 October 1986. This column also contains references to other texts proposed by some administrations.
- Col. 2 This column presents index numbers of:
 - proposals with respect to the text appearing in column 1, or
 - other provisions proposed by some administrations.

Explanations of symbols used

The proposals of administrations which are identical to the text appearing in Col. 1 are identified by the sign = placed <u>at the</u> <u>beginning</u> of their index number. (The sign (=) means that the proposal concerned is substantively the same but differs editorially.) The proposals of administrations which differ from the text appearing in Col. 1 are identified by the symbol DIF placed before their reference number or by the symbols DIF1, DIF2, etc. if in addition they differ from each other.

For example, the symbols as used below

=AAA/1/1 <u>DIF1</u> : BBB/1/1 = CCC/1/1 <u>DIF2</u> : DDD/1/1 = EEE/1/1 (=) FFF/1/1 <u>DIF3</u> : GGG/1/1

mean that :

- the proposal AAA/1/1 is the only proposal which is identical with the text appearing in Col. 1;
- the proposals BBB/1/1 and CCC/1/1 are identical, but differ from the text appearing in Col. 1 and also from other proposals;
- the proposals DDD/1/1 and EEE/1/1 are identical whereas the proposal FFF/1/1, although substantively the same as DDD/1/1 and EEE/1/1, differs editorially. Furthermore, all these proposals differ from the text appearing in Col. 1 and also from proposals included in DIF1 and DIF3;
- the proposal GGG/1/1 differs from the text appearing in Col. 1 and also from other proposals included in DIF1 and DIF2.

Col. 1	Col. 2
CHAPTER N IX	=DDR/7 =CEPT-8/15/74 =USA/24/191 =CAN/25/13 (=)URS/32 =AUS/40/130 =E/43/56 =B/57/86 =J/60/141
ADD AUTOMATED COMMUNICATIONS FOR DISTRESS AND SAFETY ¹	=DDR/7 =CEPT-8/15/74 =USA/24/191 =CAN/25/13 =AUS/40/130 =B/57/86 DIF: E/43/56 (=) J/60/142
ADD ¹ These communications are initiated using techniques that are entirely or largely automated, and they include distress, urgency and safety calls and messages	=DDR/7 =CEPT-8/15/75 =USA/24/192 =CAN/25/14 =B/57/95 DIF: E/43/57 = J/60/142A
ADD ARTICLE N 37	=DDR/7 =CEPT-8/15/76 =USA/24/193 =CAN/25/15 =AUS/40/131 =E/43/58 =B/57/87 =J/60/143
ADD General Provisions	=DDR/7 =CEPT-8/15/77 =USA/24/194 =CAN/25/16 =AUS/40/131 =E/43/59 =B/57/88 =J/60/143
ADD N 2929 Provisions for Automated Communications for Distress and Safety are available for use by the Global Maritime Distress and Safety System (GMDSS) which was developed by the International Maritime Organization to improve distress and safety communications and the safety of life at sea. The GMDSS is capable of being expanded to provide for the safety of	=DDR/7 =USA/24/195 =B/57/89 <u>DIF1</u> : CEPT-8/15/78 <u>DIF2</u> : CAN/25/17 <u>DIF3</u> : AUS/40/130A <u>DIF4</u> : E/43/60 <u>DIF5</u> : J/60/144
life in other environments.	
ADD N2929.1	J/60/145
ADD [N2929A]	CAN/25/18

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Col. 1	Col. 2
ADD N 2930 The provisions specified in this chapter are obligatory (see Resolution No.A) in the maritime mobile service for all stations using the frequencies and techniques prescribed for the functions set out herein. (See also No. N 2939.) Certain provisions of this chapter are also applicable to the aeronautical mobile service except in the case of special arrangements between the governments concerned. However, stations of the maritime mobile service, when additionally fitted with equipment used by stations operating in conformity with the provisions specified in chapter IX, shall, when using that equipment, comply with	=DDR/7 =CEPT-8/15/79 =CAN/25/19 =E/43/61 (=)USA/24/196 DIF1: AUS/40/131A DIF2: B/57/90 DIF3: J/60/146
the appropriate provisions of that chapter. ADD N2930A	AUS/40/132
ADD N 2931 The procedure specified in this chapter is obligatory in the maritime mobile-satellite service and for communications between stations on board aircraft and stations of the maritime mobile-satellite service, where this service or stations of this service are specifically mentioned.	=DDR/7 =CEPT-8/15/80 =USA/24/197 =CAN/25/20 =E/43/62 =B/57/91
ADD N2931A	AUS/40/133
ADD N2931A-N2931B	CAN/25/21 -CAN/25/22
ADD N2932	CEPT-8/15/81 = E/43/63
ADD N2933	CEPT-8/15/82 = E/43/64
ADD N2934	CEPT-8/15/83 = E/43/65

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ADD	N 2934A When special circumstances make it indispensable to do so, an administration may, as an exception to the methods of working provided for by these Regulations, authorize ship earth station installations located at Rescue Coordination Centres ¹ to communicate with other stations using bands allocated to the maritime mobile-satellite service, for distress and safety purposes.	=DDR/7 =CEPT-8/15/84 (=)USA/24/198 =CAN/25/23 =E/43/66 =B/57/92 =J/60/147 DIF: AUS/40/134
ADD	N 2934A.1 The term "Rescue Coordination Centre" refers to a facility designated by a competent national authority to perform rescue coordination functions consistent with the International Convention on Maritime Search and Rescue (1979).	=DDR/7 =CEPT-8/15/85 =USA/24/199 =CAN/25/24 =AUS/40/135 =E/43/67 =B/57/93 DIF: J/60/148
ADD	N2934B	USA/24/200 AUS/40/136
ADD	N 2935 Transmissions by radiotelephony shall be made slowly and distinctly, each word being clearly pronounced to facilitate transcription.	=DDR/7 =CEPT-8/15/86 =USA/24/201 =CAN/25/25 =AUS/40/137 =E/43/68 =B/57/94 DIF: J/60/149
ADD	N 2937A Distress, urgency and safety transmissions may also be made, using morse telegraphy and radiotelephony techniques, in accordance with the provisions of chapter IX and relevant CCIR Recommendations.	=DDR/7 =CEPT-8/15/87 =USA/24/202 =CAN/25/26 =E/43/69 =B/57/96
ADD	N 2938 The abbreviations and signals of appendix 14, the Phonetic Alphabet and Figure Code in appendix 24 and the Standard Marine Navigational Vocabulary should be used where applicable and, where language difficulties exist, the use of the International Code of Signals also is recommended.	=DDR/7 =USA/24/203 =B/57/97 =J/60/150 DIF1: CEPT-8/15/88 = E/43/70 DIF2: CAN/25/27 = AUS/40/138

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Col. 1	Col. 2
ADD N 2939 The International Convention for the Safety of Life at Sea prescribes which ships and which of their survival craft shall be fitted	=DDR/7 =CEPT=8/15/89 =USA/24/204 =CAN/25/28 =E/43/71 =B/57/98 <u>DIF</u> : J/60/151
with radio equipment and which ships shall carry portable radio equipment for use in survival craft. It also prescribes the requirements which shall be complied with by such installations.	
ADD N2940	J/60/152
ADD N2941	J/60/153
ADD N 2942 Mobile stations ¹ of the maritime mobile service may communicate, for safety purposes, with stations of the aeronautical mobile service. Such communications shall normally be made on the frequencies authorized, and under the conditions specified, in Section I of Article N 38 (see also No. N 2932).	=DDR/7 =CEPT-8/15/90 =E/43/72 =B/57/99 DIF1: USA/24/205 (=) J/60/154 DIF2: CAN/25/29
ADD N 2942.1 ¹ Mobile stations communicating with the stations of the aeronautical mobile (R) service in bands allocated to the aeronautical mobile (R) service shall conform to the provisions of the Regulations which relate to that service and as appropriate any special arrangements between the governments concerned by which the aeronautical mobile (R) service is regulated.	=DDR/7 =CEPT-8/15/91 =USA/24/206 =CAN/25/30 =E/43/73 =B/57/100 =J/60/155
ADD N 2942A Mobile stations of the aeronautical mobile service may communicate, for safety purposes, with stations of the maritime mobile	=DDR/7 =CEPT-8/15/92 =USA/24/207 =CAN/25/31 =E/43/74 =B/57/101 DIF: J/60/156
service.	

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	Col. 1		Col. 2	
ADD N 2943 Any aircraft required by national or international regulations to communicate for distress, urgency or safety purposes with stations of maritime mobile service that comply with the provisions of this chapter, shall be capable of transmitting class J3E or H3E and receiving class J3E emissions when using the carrier frequency 2182 kHz, or class J3E emissions when using the carrier frequency 4125 kHz, or class G3E emissions when using the frequency 156.8 MHz.		=DDR/7 =USA/24/208 =AUS/40/139 DIF1: CEPT-8/15/93 DIF2: CAN/25/32 DIF3: E/43/75 DIF4: B/57/102 DIF5: J/60/157		
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	Col. 1	Col. 2
ADD	ARTICLE N 38	=DDR/7 =CEPT-8/15/94 =USA/24/209 =CAN/25/33 =AUS/40/140 =E/43/76 =B/57/103 =J/60/158
	Frequencies for the Automated Communications for Distress and Safety	=DDR/7 =CEPT-8/15/95 =USA/24/210 =CAN/25/33 (=)AUS/40/140 =B/57/104 DIF: E/43/77 (=) J/60/158
	Section I. Specifically Designated Frequencies	=DDR/7 =USA/24/211 =CAN/25/33 =AUS/40/140A DIF1: CEPT-8/15/96 = E/43/78 = B/57/105 DIF2: J/60/158
ADD N	2967 A. 490 kHz	=DDR/7 =USA/24/212 =CAN/25/34 =AUS/40/141 =B/57/106 =J/60/159 DIF: CEPT-8/15/99 = E/43/81(N2971C)
c	2968 The frequency 490 kHz is used exclusively for distress and afety [calls in the shore-to-ship direction by digital selective alling]. Additional conditions concerning the use of this frequency are iven in Resolution No. 206(Mob-83).	=DDR/7 DIF1: CEPT-8/15/100 (N2971D) DIF2: USA/24/213 DIF3: CAN/25/35 DIF4: AUS/40/142 DIF5: E/43/82 (ADD N2971D) DIF6: B/57/107 DIF7: J/60/160
ADD N	2971A B. 518 kHz	=DDR/7 =USA/24/214 =CAN/25/36 =AUS/40/143 =B/57/108 =J/60/16 (=)CEPT-8/15/97 (=)E/43/79
ez na	2971B In the maritime mobile service, the frequency 518 kHz is used cclusively for the transmission by coast stations of meteorological and avigational warnings and urgent information to ships, by means of arrow-band direct-printing telegraphy (see Resolution No. 318(Mob-83)).	=DDR/7 =USA/24/37 (=)CEPT-8/15/98 (=)E/43/82 =B/57/109 DIF1: USA/24/214 DIF2: AUS/40/144 DIF3: J/60/162

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	Col. 1	Col. 2
ADD	N 2971C C. 2174.5 kHz	=DDR/7 =USA/24/215 =CAN/25/38 =AUS/40/145 =B/57/110 =J/60/163 (=)CEPT-8/15/101 (=)E/43/83 (N2971E)
ADD	N 2971D The frequency 2174.5 kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.	=DDR/7 =USA/24/216 =CAN/25/39 =AUS/40/146 =B/57/111 =J/60/164 (=)CEPT-8/15/102 (=)E/43/84 (N2971F)
4DD	N 2972 D. 2182 kHz	=DDR/7 =CEPT-8/15/103 =USA/24/217 =CAN/25/40 =AUS/40/147 =E/43/85 =J/60/165
	N 2973 The carrier frequency 2182 kHz is used for distress and safety traffic by radiotelephony, using class of emission J3E. (See also No. 2973).	=DDR/7 =CEPT-8/15/104 =USA/24/218 =CAN/25/41 =AUS/40/148 =E/43/86 <u>DIF</u> : J/60/166
ADD	N 2978A E. 2187.5 kHz	=DDR/7 =CEPT-8/15/105 =USA/24/219 =CAN/25/42 =AUS/40/149 =E/43/87 =B/57/112 =J/60/167
ADD	N 2978B The frequency 2187.5 kHz is used exclusively for distress and safety calls using digital selective calling. (See Nos. N 3172, N 3195T and N 3195 AB.)	=DDR/7 =B/57/113 DIF1: CEPT-8/15/106 = E/43/88 DIF2: USA/24/220 = AUS/40/150 = J/60/168 DIF3: CAN/25/43
ADD	N2978B.1	J/60/169
ADD	N 2979 F. 3023 kHz	=DDR/7 =CEPT-8/15/107 =USA/24/221 =CAN/25/44 =AUS/40/151 =E/43/89 =B/57/114 =J/60/170
ADD	N 2980 The aeronautical carrier (reference) frequency 3023 kHz may be used for intercommunication between mobile stations when they are engaged in coordinated search and rescue operations, and for communication between these stations and participating land stations, in accordance with the provisions of appendix 27 Aer2 (see Nos. 501 and 505).	=DDR/7 =CEPT-8/15/108 =USA/24/222 =CAN/25/45 =AUS/40/152 =E/43/90 =B/57/115 =J/60/171

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5/109 =USA/24/223 =CAN/25/46 =AUS/40/153 72
5/110 =USA/24/224 =CAN/25/47 =AUS/40/154 <u>DIF</u> : J/60/173
L5/111 =USA/24/225 =CAN/25/48 =E/43/93
5/112 =USA/24/226 =CAN/25/49 =AUS/40/156 74 <u>DIF</u> : B/57/116
5/113 =USA/24/227 =CAN/25/50 =AUS/40/157 75 <u>DIF</u> : B/57/117
5/114 =USA/24/228 =CAN/25/51 =AUS/40/158 76 DIF: B/57/118
DIF1: CEPT-8/15/115 = E/43/97 = AUS/40/159 = J/60/177 DIF4: B/57/119
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	Col. 1	Col. 2
ADD N 2983	J. 5680 kHz	=DDR/7 =CEPT-8/15/116 =USA/24/230 =CAN/25/53 =AUS/40/16 =E/43/98 =B/57/122 =J/60/178
used for inte in coordinate between these	e aeronautical carrier (reference) frequency 5680 kHz may be ercommunication between mobile stations when they are engage ed search and rescue operations, and for communication e stations and participating land stations, in accordance visions of appendix 27 Aer2 (see also Nos. 501 and 505).	=00K/7 = CEFI = 0/13/11/ = 0SA/24/231 = CAN/25/54 = AUS/40/16
ADD N 2985	K. 6215.5 kHz	=DDR/7 DIF: CEPT-8/15/118 = USA/24/232 = CAN/25/55 = AUS/40/162 = E/43/100 = J/60/180
	ne carrier frequency 6215.5 kHz is used for distress and ic by radiotelephony (see also No. 2986).	=DDR/7 DIF: CEPT-8/15/119 = USA/24/233 = CAN/25/56 = AUS/40/163 = E/43/101 (=) J/60/181
ADD N 2986A	L. 6268 kHz	=DDR/7 =CEPT-8/15/120 =USA/24/234 =CAN/25/57 =AUS/40/16 =E/43/102 =J/60/182 <u>DIF</u> : B/57/124
	e frequency 6268 kHz is used exclusively for distress and ic using narrow-band direct-printing telegraphy.	=DDR/7 =CEPT-8/15/121 =USA/24/235 =CAN/25/58 =AUS/40/16 =E/43/103 =J/60/183 <u>DIF</u> : B/57/125
ADD N 2986C	M. 6282 kHz	=DDR/7 =CEPT-8/15/122 =USA/24/236 =CAN/25/59 =AUS/40/16 =E/43/104 =J/60/184 DIF: B/57/126
	e frequency 6282 kHz is used exclusively for distress and using digital selective calling. (See Nos. N 3172, N 3195	$\begin{array}{rcl} = DDR/7 & = AUS/40/167 & \underline{DIF1}: & CEPT-8/15/123 & = E/43/10\\ \underline{DIF2}: & USA/24/237 & = J/60/185\\ \underline{DIF3}: & CAN/25/60 & \underline{DIF4}: & B/57/127 \end{array}$

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	Col. 1	Col. 2
ADD	N 2986E N. 8257 kHz	=DDR/7 =CEPT-8/15/124 =USA/24/238 =CAN/25/61 =AUS/40/168 =E/43/106 =J/60/186
ADD	N 2986F The carrier frequency 8257 kHz is used exclusively for distress and safety traffic by radiotelephony.	=DDR/7 =CEPT-8/15/125 =USA/24/239 =CAN/25/62 =AUS/40/169 =E/43/107 (=) J/60/187
ADD	N 2986G 0. 8357.5 kHz	=DDR/7 =CEPT-8/15/126 =USA/24/240 =CAN/25/63 =AUS/40/170 =E/43/108 =J/60/188 DIF: B/57/128
ADD	N 2986H The frequency 8357.5 kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.	=DDR/7 =CEPT-8/15/127 =USA/24/241 =CAN/25/64 =AUS/40/171 =E/43/109 =J/60/189 DIF: B/57/129
ADD	N 2988A P. 8375 kHz	=DDR/7 =CEPT-8/15/128 =USA/24/242 =CAN/25/65 =AUS/40/172 =E/43/110 =J/60/190 <u>DIF</u> : B/57/130
ADD	N 2988B The frequency 8375 kHz is used exclusively for distress and safety calls using digital selective calling. (See Nos. N 3172, N 3195T and N 3195AB.)	=DDR/7 DIF1: CEPT-8/15/129 = E/43/111 DIF2: USA/24/243 = AUS/40/173 = $J/60/191$ DIF3: CAN/25/66 DIF4: B/57/131
ADD	N 2988C Q. 12392 kHz	=DDR/7 =CEPT-8/15/130 =CAN/25/67 =AUS/40/174 =E/43/112 =J/60/192 DIF: USA/24/244
ADD	N 2988D The carrier frequency 12392 kHz is used for distress and safety traffic by radiotelephony.	=DDR/7 =CEPT-8/15/131 =CAN/25/68 =AUS/40/175 =E/43/113 =J/60/193 DIF: USA/24/245
ADD	N 2988E R. 12520 kHz	=DDR/7 =CEPT-8/15/132 =USA/24/246 =CAN/25/69 =AUS/40/176 =E/43/114 =J/60/194 DIF: B/57/132
ADD .	N 2988F The frequency 12520 kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.	=DDR/7 =CEPT-8/15/133 =USA/24/247 =CAN/25/70 =AUS/40/177 =E/43/115 =J/60/195 <u>DIF</u> : B/57/133

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	Col. 1	Col. 2
ADD N 2988G	S. 12563 kHz	=DDR/7 =CEPT-8/15/134 =USA/24/248 =CAN/25/71 =AUS/40/178 =E/43/116 =J/60/196 <u>DIF</u> : B/57/134
	frequency 12563 kHz is used exclusively for distress and using digital selective calling. (See Nos. N 3172, N 3195T)	=DDR/7 DIF1: CEPT-8/15/135 = E/43/117 DIF2: USA/24/249 = AUS/40/179 = J/60/197 DIF3: CAN/25/72 DIF4: B/57/135
ADD N 29881	T. 16522 kHz	=DDR/7 =CEPT-8/15/136 =USA/24/250 =CAN/25/73 =AUS/40/180 =E/43/118 =J/60/198
	carrier frequency 16522 kHz is used for distress and safety diotelephony.	=DDR/7 =CEPT-8/15/137 =USA/24/251 =CAN/25/74 =AUS/40/181 =E/43/119 =J/60/199
ADD N 2988K	U. 16695 kHz	=DDR/7 =CEPT-8/15/138 =USA/24/252 =CAN/25/75 =AUS/40/182 =E/43/120 =J/60/200 DIF: B/57/136
	e frequency 16695 kHz is used exclusively for distress and ic using narrow-band direct-printing telegraphy.	=DDR/7 =CEPT-8/15/139 =USA/24/253 =CAN/25/76 =AUS/40/183 =E/43/121 =J/60/201 <u>DIF</u> : B/57/137
ADD N 2988M	V. 16750 kHz	=DDR/7 =CEPT-8/15/140 =USA/24/254 =CAN/25/77 =AUS/40/184 =E/43/122 =J/60/202 <u>DIF</u> : B/57/138
	e frequency 16750 kHz is used exclusively for distress and using digital selective calling. (See Nos. N 3172, N 3195T .)	=DDR/7 DIF1: CEPT-8/15/140A = E/43/123 DIF2: USA/24/255 = AUS/40/185 = J/60/203 DIF3: CAN/25/78 DIF4: B/57/139

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Col. 1	Col. 2
ADD N 2989 W. 121.5 MHz and 123.1 MHz	=DDR/7 =CEPT-8/15/141 =USA/24/256 =CAN/25/79 =AUS/40/186 =E/43/124
ADD N 2990A The aeronautical emergency frequency 121.5 MHz ¹ is used for the purposes of distress and urgency for radiotelephony by stations of the aeronautical mobile service using frequencies in the band between 117.975 MHz and 136 MHz (137 MHz after 1 January 1990). This frequency may also be used for these purposes in survival craft stations and emergency position-indicating radiobeacons.	=DDR/7 =CEPT-8/15/142 =USA/24/257 =CAN/25/80 =E/43/125 DIF: AUS/40/187
ADD N 2990A.1 Normally aircraft stations transmit distress and urgency messages on the working frequency in use at the time of the distress or urgency incident.	=DDR/7 =CEPT-8/15/143 =USA/24/258 =CAN/25/81 =AUS/40/188 =E/43/126
ADD N 2990B The aeronautical auxiliary frequency 123.1 MHz, which is auxiliary to the aeronautical emergency frequency 121.5 MHz, is for use by stations of the aeronautical mobile service and by other mobile and land stations engaged in coordinated search and rescue operations (see also No. 593).	=DDR/7 =CEPT-8/15/144 =USA/24/259 =CAN/25/82 =E/43/127 DIF: AUS/40/189
ADD N 2991 Mobile stations of the maritime mobile service may communicate with stations of the aeronautical mobile service on the aeronautical emergency frequency 121.5 MHz for the purposes of distress and urgency, only, and on the aeronautical auxiliary frequency 123.1 MHz for coordinated search and rescue operations, using class A3E emissions for both frequencies (see also Nos. 501 and 593). They shall then comply	=DDR/7 =CEPT-8/15/145 =USA/24/260 =CAN/25/83 =E/43/128 DIF: AUS/40/190
with any special arrangements between the governments concerned by which the aeronautical mobile service is regulated.	

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Art. N38

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Col. 1	Col. 2
ADD N 2992 X. 156.3 MHz	=DDR/7 =CEPT-8/15/146 =USA/24/261 =CAN/25/84 =AUS/40/19 =E/43/129 =J/60/204
ADD N 2993 The frequency 156.3 MHz may be used for communication between ship stations and aircraft stations, using class of emission G3E, engaged in co-ordinated search and rescue operations. It may also be used by aircraft stations to communicate with ship stations for other safety purposes (see also note g) of appendix 18).	=DDR/7 =USA/24/262 =CAN/25/85 =AUS/40/192 =E/43/130 =J/60/205 <u>DIF</u> : CEPT-8/15/147
ADD N 2993A Y. 156.525 MHz	=DDR/7 =CEPT-8/15/148 =USA/24/263 =CAN/25/86 =AUS/40/193 =E/43/131 =B/57/140 =J/60/206
ADD N 2993B The frequency 156.525 MHz is used in the maritime mobile service exclusively for distress and safety calls using digital selective calling (see also No.613A and Resolution No. 317(Mob-83)).	=DDR/7 =AUS/40/193 =B/57/141 DIF1: CEPT-8/15/149 DIF2: USA/24/264 DIF3: CAN/25/87 DIF4: E/43/132 DIF5: J/60/207
ADD N 2993C Z. 156.650 MHz	=DDR/7 =CEPT-8/15/150 =USA/24/265 =CAN/25/88 =AUS/40/194 =E/43/133 (=) J/60/208
ADD N 2993D The frequency 156.650 MHz is used for ship-to-ship communications related to the safety of navigation in accordance with note n) of appendix 18.	=DDR/7 =CEPT-8/15/151 =CAN/25/89 =E/43/134 DIF1: USA/24/266 DIF2: AUS/40/195 DIF3: J/60/209

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Col. 1	Col. 2
ADD N 2993E AA. 156.8 MHz	=DDR/7 =CEPT-8/15/152 =USA/24/267 =CAN/25/90 =AUS/40/196 =E/43/135 =J/60/210
ADD N 2994 The frequency 156.8 MHz is used for distress and safety traffic by radiotelephony, using class of emission G3E. (see also No.2994).	=DDR/7 =CEPT-8/15/153 =USA/24/268 =CAN/25/91 =AUS/40/197 =E/43/136 <u>DIF</u> : J/60/211
ADD N 2995A The frequency 156.8 MHz may be used by aircraft stations for safety purposes only.	=DDR/7 =CEPT-8/15/154 =USA/24/269 =CAN/25/92 =AUS/40/198 =E/43/137
ADD N2996	E/43/138
ADD N2996A	E/43/139
ADD N 2997 AB. 406 - 406.1 MHz Band	=DDR/7 =CEPT-8/15/155 =USA/24/272 =CAN/25/93 =AUS/40/199 (=)E/43/140 =B/57/142 =J/60/212
ADD N 2997A The frequency band 406 - 406.1 MHz is used exclusively for satellite emergency position-indicating radiobeacons in the Earth-to-space direction (see No.649).	=DDR/7 =CEPT-8/15/156 =USA/24/273 =CAN/25/94 =E/43/141 (=)AUS/40/200 =B/57/143 (=) J/60/213
ADD N2997B	J/60/214
ADD N2997C	J/60/215
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	Col. 1	Col. 2
ADD N 2998	AC. 1544 - 1545 MHz Band	=DDR/7 =CEPT-8/15/157 =USA/24/274 =CAN/25/95 =AUS/40/201 (=)E/43/142 =B/57/144 (=)J/60/216
	e of the band 1 544 - 1 545 MHz (space-to-Earth) is limited distress and safety operations (see No. 728) including:	=DDR/7 =CEPT-8/15/158 =USA/24/275 =CAN/25/96 =AUS/40/202 =E/43/143 =B/57/145 DIF: J/60/217
sa	feeder links of satellites needed to relay the emissions of cellite emergency position-indicating radiobeacons to earth ations;	=DDR/7 =CEPT-8/15/159 =USA/24/276 =CAN/25/97 =AUS/40/203 =E/43/144 =B/57/146
	narrow-band (space-to-Earth) links from space stations to bile stations.	=DDR/7 =CEPT-8/15/160 =USA/24/277 =CAN/25/98 =AUS/40/204 =E/43/145 =B/57/147
ADD N2998CA		J/60/218
ADD N2998CB		J/60/219
ADD N 2998D	AD. 1645.5 - 1646.5 MHz Band	=DDR/7 =CEPT-8/15/161 =USA/24/278 =CAN/25/99 =AUS/40/205 (=)E/43/146 =B/57/148 (=)J/60/220
	e of the band 1 645.5 - 1 646.5 MHz (Earth-to-space) is istress and safety operations (see No. 728).	=DDR/7 =CEPT-8/15/162 =USA/24/279 =CAN/25/100 =E/43/147 =B/57/149 DIF1: AUS/40/206 DIF2: J/60/221
ADD N 2998F	AE. 9300 - 9500 MHz	=DDR/7 =CEPT-8/15/163 (=)E/43/148 =B/57/150 DIF: USA/24/280 = CAN/25/101 = AUS/40/207 = J/60/222
	e Band 9300 - 9500 MHz is used for radar transponders to earch and rescue.	=DDR/7 =CEPT-8/15/164 =E/43/149 =B/57/151 DIF1: USA/24/281 = CAN/25/102 = AUS/40/208 DIF2: J/60/223

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	Col. 1	Col. 2
ADD N	N 3001 AF. Survival Craft Stations	=DDR/7 =CEPT-8/15/165 =USA/24/282 =CAN/25/103 =AUS/40/209 (=)E/43/150 =B/57/152 (=)J/60/224
st be G3	A 3002 Equipment provided for radiotelephony use in survival craft stations shall, if capable of operating on any frequency in the bands between 156 MHz and 174 MHz, be able to transmit on 156.8 MHz using class G3E emissions. If a receiver is provided in these bands it shall be able to receive class G3E emissions on 156.8 MHz.	=DDR/7 =CEPT-8/15/166 =USA/24/283 =AUS/40/210 =E/43/151 =B/57/153 <u>DIF1</u> : CAN/25/104 <u>DIF2</u> : J/60/225
81	7 3002A Equipment provided for transmitting locating signals from survival craft stations shall be capable of operating in the 9300-9500 Hz band using class of emission PØN.	=DDR/7 =CEPT-8/15/167 =B/57/154 <u>DIF1</u> : USA/24/284 = CAN/25/104A = AUS/40/211 <u>DIF2</u> : E/43/152 <u>DIF3</u> : J/60/226
	3008A Equipment with digital selective calling facilities provided or use in survival craft shall, if capable of operating :	=DDR/7 =CEPT-8/15/168 =USA/24/285 =CAN/25/105 =AUS/40/212 =B/57/155 =J/60/227 <u>DIF</u> : E/43/153
ADD N	3008B a) in the bands between 1605 kHz and 2850 kHz, be able to transmit on 2187.5 kHz;	=DDR/7 =CEPT-8/15/169 =USA/24/286 =CAN/25/105A =AUS/40/213 =E/43/154 =B/57/156 =J/60/228
ADD N	3008C b) in the bands between 4000 kHz and 27500 kHz, be able to transmit on 8375 kHz;	=DDR/7 =CEPT-8/15/170 =USA/24/287 =CAN/25/105B =AUS/40/214 =E/43/155 =J/60/229 DIF: B/57/157
ADD N	N 3008D c) in the bands between 156 MHz and 174 MHz, be able to transmit on 156.525 MHz.	=DDR/7 =CEPT-8/15/171 =USA/24/288 =CAN/25/105C =AUS/40/215 =E/43/156 =B/57/158 =J/60/230

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	Col. 1	Col. 2
ADD	Section II. Protection of Frequencies Used for Automated Communications for Distress and Safety	=DDR/7 =CEPT-8/15/172 =USA/24/289 =CAN/25/106 =AUS/40/216 DIF1: E/43/157 = B/57/159 DIF2: J/60/231A
ADD N 300	9 A. General	=DDR/7 =CEPT-8/15/173 =USA/24/290 =CAN/25/107 =AUS/40/217 =E/43/158 =B/57/160 =J/60/231B
safety 2174.5 6215.5 12392 156.52 causin	 e of causing harmful interference to distress, alarm, urgency or communications on the frequencies 490 kHz, 500 kHz, 518 kHz, kHz, 2182 kHz, 2187.5 kHz, 4125 kHz, 4177.5 kHz, 4188 kHz, kHz, 6268 kHz, 6282 kHz, 8257 kHz, 8357.5 kHz, 8375 kHz, kHz, 12520 kHz, 12563 kHz, 16522 kHz, 16695 kHz, 16750 kHz, 5 MHz or 156.8 MHz (see also No. 3010) is prohibited. Any emission g harmful interference to distress and safety communications on any other frequencies identified in Section I of this Article is 	=DDR/7 DIF1: CEPT-8/15/174 = CAN/24/10 DIF2: USA/24/291 DIF3: AUS/40/218 DIF4: E/43/159 DIF5: B/57/161 DIF6: J/60/232
practi power.	Test transmissions shall be kept to a minimum on the ncies identified in Section I of this Article and should, wherever cable, be carried out on artificial antennas or with reduced However, testing on the distress and safety calling frequencies be avoided.	=DDR/7 =CEPT-8/15/175 =CAN/25/109 =B/57/162 DIF1: USA/24/292 = E/43/160 DIF2: AUS/40/219 DIF3: J/60/233
ADD N3012		CAN/25/110
ADD N30164		J/60/234
ADD N3016H		J/60/235

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	Col. 1	Col. 2
ADD	N 3022 B. 2173.5 - 2190.5 kHz Band	=DDR/7 =CEPT-8/15/176 =USA/24/293 =CAN/25/111 =E/43/161 =B/57/163 =J/60/236 <u>DIF</u> : AUS/40/220
ADD	N 3023 Except for transmissions authorized on the carrier frequency 2182 kHz and on the frequencies 2174.5 kHz and 2187.5 kHz all transmissions on the frequencies between 2173.5 kHz and 2190.5 kHz are forbidden.	=DDR/7 =CAN/25/112 =B/57/164 <u>DIF1</u> : CEPT-8/15/177 = E/43/162 <u>DIF2</u> : USA/24/293A = J/60/237 <u>DIF3</u> : AUS/40/221
ADD	N 3032 C Band 156.7625 MHz to 156.8375 MHz	=DDR/7 =CEPT-8/15/178 =USA/24/294 =CAN/25/113 =AUS/40/222 =E/43/163 =B/57/165 =J/60/238
ADD	N 3033 All emissions in the band 156.7625 - 156.8375 MHz capable of causing harmful interference to the authorized transmissions of stations of the maritime mobile service on 156.8 MHz are forbidden.	=DDR/7 =CEPT-8/15/179 =USA/24/295 =CAN/25/114 =AUS/40/22 (=)E/43/164 =B/57/166 (=)J/60/239
ADD	Section III. Watch on Frequencies Used for Automated Communications for Distress and Safety	=DDR/7 =CEPT-8/15/180 =USA/24/296 =CAN/25/115 (=)AUS/40/224 DIF1: E/43/165 (=) J/60/240 DIF2: B/57/167
ADD	N 3037 A. Selected coast stations	=DDR/7 =CEPT-8/15/181 =USA/24/297 =CAN/25/116 =AUS/40/22 =E/43/166 =B/57/168 =J/60/241
AD	D N3037A	J/60/242 (voir/ <u>see</u> /véase ADD N3038)
AD	D N3037B-N3038	J/60/243-J/60/244
ADD	N 3038 Coast stations selected in accordance with the plan co-ordinated by the International Maritime Organization shall maintain an automatic digital selective calling watch on frequencies and for periods of time as indicated in the information published in the List of Coast Stations.	=DDR/7 =CEPT-8/15/182 =USA/24/298 =CAN/25/117 =E/43/167 =B/57/169 DIF1: AUS/40/226 DIF2: J/60/242 (ADD N3037A)

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Col. 1	Col. 2
ADD N 3038A B. Coast Earth Stations	=DDR/7 =CEPT-8/15/183 =USA/24/299 =CAN/25/118 =AUS/40/227 =E/43/168 =B/57/170 <u>DIF</u> : J/60/245
ADD N3038AA	J/60/246
ADD N 3038B Coast earth stations selected in accordance with the plan co-ordinated by the International Maritime Organization shall maintain an automatic watch for distress alerts relayed from satellite emergency position-indicating radiobeacons by space stations.	=DDR/7 =CEPT-8/15/184 =USA/24/300 =B/57/171 DIF1: CAN/25/119 DIF2: AUS/40/228 DIF3: E/43/169 DIF4: J/60/247
ADD N 3040 C. Ship stations	=DDR/7 =CEPT-8/15/185 =USA/24/301 =CAN/25/120 =AUS/40/229 =E/43/170 =B/57/172 =J/60/248
ADD N 3041 Ship stations complying with the provisions of this chapter shall, while at sea, maintain an automatic digital selective calling watch on the appropriate distress and safety calling frequencies in the frequency bands in which they are operating.	=DDR/7 =USA/24/302 =CAN/25/121 =B/57/173 DIF1: CEPT 8/15/186 DIF2: AUS/40/230 DIF3: E/43/171 DIF4: J/60/249
ADD N3041.1-N3041.2	J/60/253-J/60/254
ADD N3041A	CAN/25/122
ADD N3041A-N3041B	CEPT-8/15/187-CEPT-8/15/188 = E/43/172-E/43/173
ADD N3041A-N3041D	J/60/250-J/60/252, J/60/255
ADD N 3042 Ship stations complying with the provisions of this chapter should, where practicable, maintain a watch on the frequency 156.650 MHz for communications related to the safety of navigation.	=DDR/7 =USA/24/303 =CAN/25/123 =AUS/40/231
ADD N3043-N3044	J/60/257-J/60/258

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	Col. 1	Col. 2
ADD	ARTICLE N 39	=DDR/7 =CEPT-8/15/189 =USA/24/304 =CAN/25/124 =AUS/40/23 =E/43/174 =J/60/259
ADD	Operational Procedures for Automated Communications for Distress and Safety System	=DDR/7 =CEPT-8/15/190 =USA/24/305 =CAN/25/125 =AUS/40/23 DIF: E/43/175 (=) J/60/259
ADD	Section I. General	=DDR/7 =CEPT-8/15/191 =USA/24/306 =CAN/25/126 =AUS/40/23 =E/43/176 =J/60/260
	3169 Automated communications for distress and safety situations ely on the use of terrestrial MF, HF and VHF radiocommunications and ommunications using satellite techniques.	=DDR/7 =USA/24/307 =CAN/25/127 DIF1: AUS/40/235 DIF2: J/60/261
01 e:	3170 The distress alert (see No. N 3172) shall be sent through a atellite either with absolute priority in general communication channels r on exclusive distress and safety frequencies or, alternatively, on xclusive distress and safety frequencies in the MF, HF and VHF bands sing digital selective calling.	=DDR/7 =USA/24/308 <u>DIF1</u> : CEPT-8/15/192 = E/43/177 <u>DIF2</u> : CAN/25/128 <u>DIF3</u> : J/60/262
se it	3170A All stations which receive an alert transmitted by digital elective calling shall immediately cease any transmission capable of nterfering with distress traffic and shall continue to watch until the all has been acknowledged.	=DDR/7 =CEPT-8/15/193 =USA/24/309 =CAN/25/129 =E/43/178 (=)J/60/263
au	3171 The distress alert (see No. N. 3172) shall be sent only on the uthority of the person responsible for the ship, aircraft or other ehicle carrying the mobile station or the ship earth station.	=DDR/7 =CEPT-8/15/194 =USA/24/310 =CAN/25/130 =E/43/179 (=)J/60/264

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Col. 1	Col. 2
ADD N 3171A Digital selective calling shall be in accordance with the relevant CCIR Recommendations.	=DDR/7 =CEPT-8/15/195 =USA/24/311 =CAN/25/131 =E/43/180 DIF: J/60/265
ADD N3171B	J/60/266
ADD Section II. Distress Alerting	=DDR/7 =CEPT-8/15/196 =USA/24/312 =CAN/25/132 =AUS/40/236 =E/43/181 (=)J/60/267
A. General	=DDR/7 =CEPT-8/15/197 =USA/24/313 =CAN/25/132 =AUS/40/237 =E/43/182 =J/60/268
DD N 3172 The transmission of a distress alert indicates that a ship is in distress and requires immediate assistance. The distress alert is a digital selective call using a distress call format in bands used for terrestrial radiocommunication or is a distress message format relayed through space stations.	=DDR/7 =USA/24/314 (=)J/60/269 DIF1: CEPT-8/15/198 = CAN/25/133 = E/43/183 DIF2: AUS/40/238-AUS/40/239
ADD N3172.1	CEPT-8/15/199 = E/43/184
DD N 3173 The distress alert shall contain ¹ the identification of the ship in distress and provide for its position.	$ \begin{array}{c} = DDR/7 = USA/24/315 \\ DIF2: CAN/25/134 \\ \hline DIF4: J/60/270 \end{array} \\ \begin{array}{c} DIF1: CEPT-8/15/200 = E/43/185 \\ \hline DIF3: AUS/40/240 \\ \hline \\ \end{array} $
DD N 3173.1 The distress alert may also contain information regarding the nature of the distress, the type of assistance required, the course and speed of the ship, and the time that this information was recorded.	=DDR/7 =USA/24/316 <u>DIF1</u> : CEPT-8/15/201 <u>DIF2</u> : CAN/25/135 <u>DIF3</u> : E/43/186
DD N3173A, N3173B, N3173C	AUS/40/241-AUS/40/243 E/43/187-E/43/189

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Col. 1	Col. 2
ADD B. Transmission of a Distress Alert	=DDR/7 =CEPT-8/15/202 =USA/24/317 =CAN/25/136 =AUS/40/244 =E/43/190 =J/60/271
ADD B1. Transmission of a Distress Alert by a Ship Station	=DDR/7 =CEPT-8/15/203 =USA/24/318 =CAN/25/137 =AUS/40/245 =E/43/191 (=)J/60/272
ADD N 3174 Ship-to-shore distress alerts will be used to alert coast stations and rescue co-ordination centres that a ship is in distress. These alerts are based on the use of transmissions through satellites (from a ship earth station or a satellite EPIRB), digital selective calling (in the MF, HF and VHF bands), and EPIRBs.	=DDR/7 =USA/24/319 =CAN/25/138 <u>DIF1</u> : CEPT-8/15/204 = E/43/192 <u>DIF2</u> : AUS/40/246 <u>DIF3</u> : J/60/273
ADD N 3175 Ship-to-ship distress alerts will be used to alert other ships in the vicinity of the ship in distress and are based on the use of digital selective calling in the VHF and MF Bands.	=DDR/7 =USA/24/320 =CAN/25/139 <u>DIF1</u> : CEPT-8/15/204 = E/43/192 <u>DIF2</u> : AUS/40/247 <u>DIF3</u> : J/60/274
ADD B2. Transmission of a Shore-to-Ship Distress Alert	=DDR/7 =USA/24/321 =CAN/25/140 =AUS/40/248 =E/43/193 =J/60/275 DIF: CEPT-8/15/205
ADD N 3176 The transmission of a shore-to-ship distress alert will be addressed, as appropriate, to all ships, to a selected group of ships or to a specific ship.	=DDR/7 =USA/24/322 =CAN/25/141 =AUS/40/249 DIF1: CEPT-8/15/206 (=) E/43/194 DIF2: J/60/276
ADD N3176A	CEPT-8/15/207 (=) E/43/195
ADD N3176B	CEPT-8/15/208 (=) E/43/196
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Col. 1	Col. 2
ADD B3. Transmission of a Distress Alert by a Station Not Itself in Distress	=DDR/7 (=)CEPT-8/15/209 =USA/24/323 =CAN/25/142 =AUS/40/250 =E/43/197 =J/60/277
ADD N 3177 A mobile station or a land station which learns that a mobile station is in distress shall transmit a distress alert in any of the following cases:	=DDR/7 =USA/24/324 =CAN/25/143 =AUS/40/251 DIF1: CEPT-8/15/210 = E/43/198 DIF2: J/60/278
ADD N 3178 a) when the station in distress is not itself in a position to transmit the distress alert;	=DDR/7 =CEPT-8/15/211 =USA/24/325 =CAN/25/144 =AUS/40/25 =E/43/199 =J/60/279
ADD N 3179 b) when the master or person responsible for the ship, aircraft or other vehicle not in distress, or the person responsible for the land station, considers that further help is necessary.	=DDR/7 =CEPT-8/15/212 =USA/24/326 =CAN/25/145 =E/43/200 DIF1: AUS/40/253 DIF2: J/60/280
ADD N 3180 A station transmitting a distress alert in accordance with No N 3177 and N 3188 shall indicate that it is not itself in distress.	=DDR/7 (=)CEPT-8/15/213 =USA/24/327 (=)CAN/25/146 =AUS/40/254 (=)E/43/201 (=)J/60/281
ADD C. Receipt and Acknowledgement of Distress Alerts	=DDR/7 =CEPT-8/15/214 =USA/24/328 =CAN/25/147 =AUS/40/255 =E/43/202 (=)J/60/282
ADD C1. Procedure for the Acknowledgement of Receipt of Distress Alerts	=DDR/7 =CEPT-8/15/215 =USA/24/329 =CAN/25/148 =AUS/40/25 =E/43/203 DIF: J/60/283
ADD N 3181 Acknowledgement by digital selective calling of receipt of a distress alert shall be in accordance with relevant CCIR Recommendations.	=DDR/7 =CEPT-8/15/216 =USA/24/330 =CAN/25/149 =E/43/204 DIF: AUS/40/257

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Col. 1	Col. 2
ADD N 3182 Acknowledgement through a satellite of receipt of a distress alert from a ship earth station shall be sent immediately (see No. N 3184). Consequently, the ship earth station operator shall not terminate the communications link until the acknowledgement is received.	=DDR/7 =USA/24/331 =CAN/25/150 (=)AUS/40/258 DIF1: CEPT-8/15/217 = E/43/205 DIF2: J/60/284
ADD N 3183 The acknowledgement by radiotelephony of receipt of a distress alert from a ship earth station shall be given in the following form:	=DDR/7 =CEPT-8/15/218 (=)USA/24/332 =CAN/25/151 =AUS/40/259 =E/43/206 <u>DIF</u> : J/60/285
- the distress signal MAYDAY;	
 the call sign or other identification of the station sending the distress message, spoken three times; 	
 the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties); 	
 the call sign or other identification of the station acknowledging receipt, spoken three times; 	
 the word RECEIVED (or RRR spoken as ROMEO ROMEO ROMEO in case of language difficulties); 	
- the distress signal MAYDAY.	
ADD N3183A	CAN/25/152
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Col. 1	Col, 2
ADD C2. Receipt and Acknowledgement by a Coast Station	=DDR/7 =USA/24/333 =AUS/40/260 DIF1: CEPT-8/15/219 = E/43/207 DIF2: CAN/25/153 DIF3: J/60/286
ADD N 3184 Selected coast stations and appropriate coast earth stations in receipt of distress alerts shall ensure that they are routed immediately to a rescue co-ordination centre. The receipt of a distress alert is to be immediately acknowledged by a coast station or a rescue co-ordination centre.	=DDR/7 =USA/24/334 =CAN/25/154 (=)AUS/40/261 DIF1: CEPT-8/15/220 = E/43/208 DIF2: J/60/287
ADD N 3185 The acknowledgement by a coast station of a distress call by digital selective calling shall be transmitted on the distress calling frequency on which the call was received and should be addressed to all ships. The acknowledgement shall include the identification of the ship whose distress call is being acknowledged.	=DDR/7 =CEPT-8/15/221 =USA/24/335 =CAN/25/155 AUS/40/26 =E/43/209 =J/60/288
ADD C3. Receipt and Acknowledgement by a Ship Station	=DDR/7 =CEPT-8/15/222 =USA/24/336 =CAN/25/156 =AUS/40/2 =E/43/210 =J/60/289
ADD N 3186 In areas where reliable communications with one or more coast stations are practicable, ship stations in receipt of a distress alert should defer acknowledgement for a short interval so that receipt may be acknowledged by a coast station or rescue co-ordination centre.	=DDR/7 =CEPT-8/15/223 =USA/24/337 =AUS/40/264 =E/43/211 DIF: CAN/25/157 (=) J/60/290
ADD N3186A	J/60/291
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Art. N39

Col. 1	Col. 2
ADD N 3187 Ship stations, in areas where reliable communications with a coast station are not practicable, which receive a distress alert from a ship station which is, beyond any possible doubt, in their vicinity, shall immediately acknowledge receipt and inform the appropriate rescue co-ordination centre.	=DDR/7 =CEPT-8/15/224 =USA/24/338 =CAN/25/158 =E/43/212 =J/60/292 DIF: AUS/40/265 (voir/ <u>see</u> /véase ADD N3188: AUS/40/266)
ADD N 3188 However, a ship station, receiving an HF distress alert will not acknowledge it and shall, if the alert is not acknowledged by a coast station within 5 minutes, relay the distress alert.	=DDR/7 =CEPT-8/15/225 =USA/24/339 =CAN/25/159 =E/43/213 (=)J/60/293 DIF: AUS/40/266 (voir/ <u>see</u> /véase ADD N3187: AUS/40/265)
ADD N 3189 A ship station acknowledging receipt of a distress alert in accordance with No. N 3186 or No. N 3187 should:	=DDR/7 =CEPT-8/15/226 =USA/24/340 =CAN/25/160 =E/43/214 (=)J/60/294 <u>DIF</u> : AUS/40/267
DD N 3189A a) in the first instance acknowledge receipt of the alert by using radiotelephony on the distress and safety traffic frequency in the band used for the alert;	=DDR/7 =CEPT-8/15/227 =USA/24/341 =CAN/25/161 =E/43/215 (=)J/60/295 DIF: AUS/40/268
ADD N 3189B b) if acknowledgement by radiotelephony of the distress alert received on the MF or VHF distress alerting frequency is unsuccessful, acknowledge receipt of the distress alert by responding with a digital selective call on that frequency.	=DDR/7 =CEPT-8/15/228 =USA/24/342 =CAN/25/162 =E/43/216 (=)J/60/296 <u>DIF</u> : AUS/40/269
ADD N 3189C A ship station in receipt of a shore-to-ship distress alert (see No. N 3176) should establish communication as directed and render such assistance as required and appropriate.	=DDR/7 =CEPT-8/15/229 =USA/24/343 =CAN/25/163 =AUS/40/270 =E/43/217 (=)J/60/297

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Art. N39

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Col. 1	Col. 2
ADD N3189D ADD N3189E ADD N3189F	CEPT-8/15/230 = E/43/218 CEPT-8/15/231 = E/43/219 CEPT-8/15/232 = E/43/220
ADD Section III. Distress Traffic	=DDR/7 =CEPT-8/15/233 =USA/24/344 =CAN/25/164 =AUS/40/271 =E/43/221 =J/60/298A
ADD A. General	=DDR/7 =USA/24/345 =CAN/25/165 =AUS/40/272 =J/60/298A DIF: CEPT-8/15/234 = E/43/222
ADD N 3190 Distress traffic consists of all messages relating to the immediate assistance required by the ship station in distress including search and rescue communications, on-scene communications and signals for locating.	=DDR/7 =USA/24/346 =AUS/40/273 (=)J/60/298B DIF1: CEPT-8/15/235 = E/43/223 DIF2: CAN/25/166
ADD N 3190A The distress signal consists of the word MAYDAY, pronounced in radiotelephony as the French expression "m'aider".	=DDR/7 =CEPT-8/15/236 =USA/24/347 =CAN/25/167 (=)AUS/40/274 =E/43/224 (=)J/60/299
ADD N 3191 For distress traffic by radiotelephony on other than exclusive distress traffic frequencies, the call shall be prefixed by the distress signal MAYDAY.	=DDR/7 =USA/24/348 =J/60/300 DIF1: CEPT-8/15/237 = E/43/225 DIF2: CAN/25/168 = AUS/40/275
ADD N 3192 Error correction techniques in accordance with relevant CCIR Recommendations shall be used for distress traffic by direct-printing telegraphy. All messages shall be preceded by at least one carriage return, a line feed signal, a letter shift signal and the distress signal MAYDAY.	=DDR/7 =CEPT-8/15/238 =USA/24/349 =CAN/25/169 (=)AUS/40/276 =E/43/226 =J/60/301

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Col. 1	Col. 2
ADD 3192A	CAN/25/170
ADD N 3193 The rescue co-ordination centre responsible for controlling a search and rescue operation shall also control the distress traffic relating to that incident.	=DDR/7 =USA/24/350 =CAN/25/171 =J/60/302 DIF1: CEPT-8/15/239 = E/43/227 DIF2: AUS/40/277
ADD N 3194 The rescue co-ordination centre in control of distress traffic, the on-scene commander or the coast station involved may impose silence on stations which interfere with that traffic. It shall address this instruction to all stations or to one station only, according to circumstances. In either case, it shall use:	=DDR/7 (=)CEPT-8/15/240 =USA/24/351 (=)CAN/25/172 (=)AUS/40/278 (=)E/43/228 DIF: J/60/303
(a) in radiotelephony, the signal SEELONCE MAYDAY, pronounced as the French expression "silence, m'aider";	=DDR/7 =CEPT-8/15/241 =USA/24/351 =CAN/25/172 =AUS/40/27 =E/43/229 =J/60/303
(b) in narrow-band direct-printing telegraphy normally using forward-error correcting mode, the signal SILENCE MAYDAY. However, the ARQ mode may be used when it is advantageous to do so.	=DDR/7 =CEPT-8/15/242 =USA/24/351 =CAN/25/172 =AUS/40/28 =E/43/230 =J/60/303
ADD N 3195 Until they receive the message indicating that normal working may be resumed (see No. N 3195B), all stations which are aware of the distress traffic, and which are not taking part in it, are forbidden to transmit on the frequencies on which the distress traffic is taking place.	=DDR/7 =USA/24/352 =CAN/25/173 =AUS/40/281 =J/60/304 DIF: CEPT-8/15/243 = E/43/231
ADD N 3195A A station of the mobile service which, while following distress traffic, is able to continue its normal service, may do so when the	=DDR/7 =CEPT-8/15/244 =USA/24/353 =CAN/25/174 =AUS/40/28 =E/43/232 =J/60/305
distress traffic is well established and on condition that it observes	en provinsi se a se en la seconda de la s Esta de la seconda de la se

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 used for distress traffic, the rescue co-ordination centre controlling a search and rescue operation shall transmit on these frequencies a message indicating that distress traffic has finished. ADD N 3195C In radiotelephony the message referred to in No. N 3195B consists of: the distress signal MAYDAY; the call "Hello all stations" or CQ (spoken as CHARLIE QUEBEC) spoken three times; the words THIS IS (or DE spoken as DELTA ECHO in the case of language difficulties); the call sign or other identification of the station sending the message; the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". 	
 consists of: the distress signal MAYDAY; the call "Hello all stations" or CQ (spoken as CHARLIE QUEBEC) spoken three times; the words THIS IS (or DE spoken as DELTA ECHO in the case of language difficulties); the call sign or other identification of the station sending the message; the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. N 3195B consists of: the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	=)CEPT-8/15/245 =USA/24/354 (=)CAN/25/175 D/283 (=)E/43/233 D/306
 the call "Hello all stations" or CQ (spoken as CHARLIE QUEBEC) spoken three times; the words THIS IS (or DE spoken as DELTA ECHO in the case of language difficulties); the call sign or other identification of the station sending the message; the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. N 3195B consists of: the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	CEPT-8/15/246 =USA/24/355 =CAN/25/176 =E/43/23 /307 <u>DIF</u> : AUS/40/284
 spoken three times; the words THIS IS (or DE spoken as DELTA ECHO in the case of language difficulties); the call sign or other identification of the station sending the message; the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. = DDR/7 =C N 3195B consists of: the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	
 the words THIS IS (or DE spoken as DELTA ECHO in the case of language difficulties); the call sign or other identification of the station sending the message; the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. =DDR/7 =C (=) J/60/ the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	
<pre>language difficulties); - the call sign or other identification of the station sending the message; - the time of handing in of the message; - the name and call sign of the mobile station which was in distress; - the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. N 3195B consists of: - the distress signal MAYDAY; - the call CQ; - the signal DE; - the call sign or other identification of the station sending the message;</pre>	
<pre>message; - the time of handing in of the message; - the name and call sign of the mobile station which was in distress; - the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. N 3195B consists of: - the distress signal MAYDAY; - the call CQ; - the signal DE; - the call sign or other identification of the station sending the message;</pre>	
 the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. N 3195B consists of: the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	
 the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. 3195B consists of: the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	
 the words SEELONCE FEENEE pronounced as the French words "silence fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. and a signal may be a signal may be	
<pre>fini". ADD N 3195CA In direct-printing telegraphy the message referred to in No. N 3195B consists of: - the distress signal MAYDAY; - the call CQ; - the signal DE; - the call sign or other identification of the station sending the message;</pre>	
 N 3195B consists of: (=) J/60/ the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	, ,
 N 3195B consists of: (=) J/60/ the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	EPT-8/15/247 =USA/24/356 =CAN/25/177 =E/43/235
 the call CQ; the signal DE; the call sign or other identification of the station sending the message; 	
 the signal DE; the call sign or other identification of the station sending the message; 	
 the call sign or other identification of the station sending the message; 	
message;	
 the time of handing in of the message; 	
- the name and call sign of the mobile station which was in distress;	
and	
- the words SILENCE FINI.	

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Co	1. 1	Col. 2
ADD B. Search and rescue of	co-ordinating communications	=DDR/7 (=)USA/24/357 =CAN/25/178 (=)AUS/40/286 =J/60/309
	inating communications are the SAR e communications, necessary for the participating in a distress incident.	=DDR/7 (=)USA/24/358 =CAN/25/179 (=)AUS/40/287 DIF: J/60/310
	o-ordination centre (RCC) controlling responsible for the SAR co-ordinating	=DDR/7 =USA/24/359 =CAN/25/180 (=)AUS/40/288 =J/60/311
ADD N 3195F The SAR co-ordinating co frequencies from among those conta direct printing telegraphy or radi	ined in Article N 38 Section I using	=DDR/7 =USA/24/360 =CAN/25/181 =AUS/40/289 =J/60/312
ADD C. On-scen	e communications	=DDR/7 (=)CEPT-8/15/248 =USA/24/361 =CAN/25/182 =AUS/40/290 (=)E/43/236 =J/60/313
	are those between the ship in distress nd between searching ships and aircraft	=DDR/7 =USA/24/362 =CAN/25/183 DIF1: CEPT-8/15/248A = E/43/237 (ADD N3195D) DIF2: AUS/40/291 DIF3: J/60/314
correcting mode when using direct p	unications is the responsibility of the unications, in a forward error printing, should be used so that all relevant information concerning the	=DDR/7 =USA/24/363 =CAN/25/184 DIF1: CEPT-8/15/249 = E/43/238 (ADD N3195E) DIF2: AUS/40/292 DIF3: J/60/315

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Col. 1	Col. 2
ADD N 31951 The preferred frequencies for ship-to-ship on-scene communications are: 156.8 MHz using class of emission G3E, the carrier frequency 2182 kHz using class of emission J3E and the frequency 2174.5 kHz using class of emission F1B or J2B.	=DDR/7 =USA/24/364 =CAN/25/185 DIF1: CEPT-8/15/250-CEPT-8/15/251 (ADD N3195F-N3195G) DIF2: AUS/40/293 DIF3: E/43/239-E/43/240 (ADD N3195F-3195G) DIF4: J/60/316
ADD N 3195J The preferred frequencies for ship-to-aircraft on-scene communications are those in No. N 3195I and the carrier frequencies 3023 kHz and 5680 kHz using class of emission J3E and 123.1 MHz using class of emission A3E.	=DDR/7 =CAN/25/186 (=)J/60/317 DIF1: CEPT-8/15/252 = E/43/241 (ADD N3195H) DIF2: USA/24/365 DIF3: AUS/40/294
ADD N 3195K The selection or designation of on-scene frequencies is a responsibility of the on-scene commander. Normally, once established, an on-scene frequency is maintained as a continuous aural or teleprinter watch by all participating on-scene mobile units.	=DDR/7 =USA/24/366 =AUS/40/295 (=)CAN/25/187 DIF: J/60/318
ADD D. Signals for locating	=DDR/7 (=)CEPT-8/15/253 =USA/24/367 =CAN/25/188 =AUS/40/296 (=)E/43/242 =J/60/319
ADD N 3195L Locating signals are transmissions intended to facilitate, by means of the propogation properties of radio waves, the finding of a ship, aircraft or vehicle in distress or the location of survivors. These signals include those transmitted from searching units and homing signals (see No. 3195LA) transmitted by the unit in distress or by survival craft to assist the searching units.	=DDR/7 =USA/24/368 =CAN/25/189 =J/60/320 DIF1: CEPT-8/15/254 = E/43/243 DIF2: AUS/40/297
ADD N 3195 LA Homing signals are those locating signals which are transmitted by a ship, aircraft or vehicle in distress, or by a survival craft, for the purpose of providing search units with a signal that can be used to determine the bearing to the transmitting station.	=DDR/7 =USA/24/369 =J/60/321 <u>DIF1</u> : CAN/25/190 <u>DIF2</u> : AUS/40/298

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	Col. 1	Col. 2	
	N 3195M Locating signals may be transmitted in the following frequency pands:	=DDR/7 =CEPT-8/15/255 DIF1: USA/24/370 = CAN/25/191 =J/60/322 DIF2: AUS/40/299 DIF3: E/43/244	
	(a) 117.975 - 136 MHz;		
(((b) 156 - 174 MHz; (c) 406 - 406.1 MHz; and		
(d	(d) 9300 - 9500 MHz.		
	N 3195N Transmit and receive signals for locating shall comply with the relevant Recommendations of the CCIR.	=DDR/7 (=)CEPT-8/15/256 =USA/24/371 =CAN/25/192 (=)E/43/245 (=)J/60/323 DIF: AUS/40/300	
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Col. 1	Col. 2
<u>Article N 40</u>	=DDR/7 =CEPT-8/15/257 =USA/24/372 =CAN/25/193 =AUS/40/3 =E/43/246 =J/60/324
Operational Procedures Used in Automated Communications for Urgency and Safety	=DDR/7 =CEPT-8/15/258 =USA/24/373 =CAN/25/194 =AUS/40/3 DIF: E/43/247 (=) J/60/324
Section I. General	=DDR/7 =CEPT-8/15/259 =USA/24/374 =CAN/25/195 =AUS/40/30 =E/43/248 =J/60/325
ADD N 3195NA Automated communications for urgency and safety situations rely on the use of terrestrial MF, HF and VHF radiocommunications and communications using satellite techniques. These include:	=DDR/7 =USA/24/375 =CAN/25/196 DIF1: CEPT-8/15/260 = E/43/249(ADD N31950) DIF2: AUS/40/304 DIF3:J/60/326
 (a) navigational and meteorological warnings and urgent information; (b) ship-to-ship navigation safety communications; (c) ship reporting communications; (d) support communications for search and rescue operations; (e) other urgency and safety messages; and 	
 (a) navigational and meteorological warnings and urgent information; (b) ship-to-ship navigation safety communications; (c) ship reporting communications; (d) support communications for search and rescue operations; 	
 (a) navigational and meteorological warnings and urgent information; (b) ship-to-ship navigation safety communications; (c) ship reporting communications; (d) support communications for search and rescue operations; (e) other urgency and safety messages; and (f) communications relating to the navigation, movements and needs of ships and weather observation messages destined for an official 	

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Col. 1	Col. 2	
Section II. Urgency communications	=DDR/7 =CEPT-8/15/261 =USA/24/376 =CAN/25/197 =AUS/40/305 =E/43/250 =J/60/327	
 ADD N 31950 Urgency communications are safety related transmissions which include: (a) for terrestrial systems, an announcement in the form of a digital selective call using an urgency call format, an urgency signal and an urgency message; (b) an urgency signal and message relayed through space stations. 	=DDR/7 =USA/24/377 =CAN/25/197 =AUS/40/306 =J/60/328 DIF: CEPT-8/15/262 = E/43/251(ADD N3195P)	
ADD N 3195P The announcement of the urgency message is made either by using digital selective calling techniques on one or more of the distress and safety calling frequencies specified in Section I of Article N 38 or by using frequencies of the maritime mobile-satellite service.	=DDR/7 =USA/24/378 =CAN/25/198 =AUS/40/307 =J/60/329 DIF: CEPT-8/15/263 = E/43/252(ADD N3195Q)	MOB-87/
ADD N 3195Q The urgency signal consists of the words PAN PAN, in radiotelephony each word of the group pronounced as the French word "panne".	=DDR/7 =USA/24/379 =CAN/25/199 (=)AUS/40/308-AUS/40/309 (=)J/60/330 (=)CEPT-8/15/264 (=)E/43/253(ADD N3195R)	MOB-87/DT/1B-E
ADD N 3195R The urgency call format and the urgency signal indicates that the calling station has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, or the safety of a person.	=DDR/7 =USA/24/380 =CAN/25/200 =AUS/40/310 (=)J/60/331 (=)CEPT-8/15/265 (=)E/43/254(ADD N3195S)	
ADD N 31955 The urgency signal and the message shall be transmitted on one or more of the distress and safety traffic frequencies specified in Section I of Article N 38 or on frequencies of the maritime mobile-satellite service.	=DDR/7 (=)USA/24/381 =CAN/25/201 =AUS/40/311 =J/60/332 (=)CEPT-8/15/263 (=)E/43/252(ADD N3195Q)	

Col. 1	Col. 2
ADD N 3195T In radiotelephony, the urgency message will be preceded by the 'urgency signal (see N 3195Q), repeated three times.	=DDR/7 =USA/24/382 (=)AUS/40/312 =J/60/333 DIF1: CEPT-8/15/266 DIF2: CAN/25/202 (=) E/43/255
NDD N 3195U In narrow-band direct-printing, the urgency message will be preceded by the urgency signal (see N 3195Q).	=DDR/7 =USA/24/383 =AUS/40/313 =J/60/334 DIF1: CEPT-8/15/265 DIF2: CAN/25/203 (=) E/43/256
NDD N 3195X The urgency call format or urgency signal shall be sent only on the authority of the master or the person responsible for the ship, aircraft or other vehicle carrying the mobile station or mobile earth station.	=DDR/7 =USA/24/384 =CAN/25/204 =J/60/335 (=)CEPT-8/15/268 (=)E/43/257(ADD N3195V) DIF: AUS/40/314
NDD N 3195XA The urgency call format or the urgency signal may be transmitted by a land station or a coast earth station with the approval of the responsible authority.	=DDR/7 =USA/24/385 =CAN/25/205 =AUS/40/315 =J/60/336 (=)CEPT-8/15/269 (=)E/43/258(ADD N3195W)
ADD N 3195XB When an urgency message, which calls for action by the stations receiving the message, has been transmitted, the station responsible for its transmission shall cancel it as soon as it knows that action is no longer necessary.	=DDR/7 =USA/24/386 =CAN/25/206 =J/60/337 (=)CEPT-8/15/270 (=)E/43/259(ADD N3195X) DIF: AUS/40/316
ADD N3195XC-N3195XE	CAN/25/207-CAN/25/209
ADD [N3209] [N3210] [N3212] [N3213] ADD [N3214] [N3215] [N3216] [N3217] ADD [N3218] [N3219A] [N3219B] [N3220]	<pre>} CEPT-8/15/271-CEPT-8/15/283 } = E/43/261-E/43/272 }</pre>

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	Col. 1	Col. 2
ADD	Section III. Safety communications	=DDR/7 =USA/24/387 =CAN/25/210 =AUS/40/317 =J/60/338 (=)CEPT-8/15/284 (=)E/43/273(Sec. IV)
ADD	N 3195Y Safety communications include: (a) for terrestrial systems, an announcement in the form of a digital selective call using a safety call format, a safety signal and a safety message; and	=DDR/7 =USA/24/388 =CAN/25/211 =AUS/40/318 =J/60/339 DIF: CEPT-8/15/285 = E/43/274(ADD N3230)
	(b) a safety signal and message relayed through space stations.	
ADD	N 31952 The announcement of the safety message is made either by using digital selective calling techniques on one or more of the distress and safety calling frequencies specified in Section I of Article N 38 or by using frequencies of the maritime mobile-satellite service.	=DDR/7 =USA/24/389 =CAN/25/212 =AUS/40/319 =J/60/340 DIF: CEPT-8/15/286 = E/43/275(ADD N3231)
ADD	N 3195AA The safety signal consists of the word SECURITE, in radiotelephony pronounced as in Fench.	=DDR/7 =USA/24/390 =CAN/25/213 (=)AUS/40/320 (=)J/60/341 (=)CEPT-8/15/287 (=)E/43/276(ADD N3232)
ADD	N 3195AB The safety call format or the safety signal indicates that the calling station has an important navigational or meteorological warning to transmit.	=DDR/7 =USA/24/391 =CAN/25/214 =AUS/40/321 =J/60/342 (=)CEPT-8/15/288 (=)E/43/277(ADD N3233)
•		(1) The state of the second state of the se
ADD	N 3195AC Safety communications shall normally be transmitted on one or more of the distress and safety traffic frequencies specified in	=DDR/7 =USA/24/392 =CAN/25/215 =AUS/40/322 =J/60/343 DIF: CEPT-8/15/286 = E/43/275(ADD N3231)
	Section I of Article N 38 or on frequencies of the maritime mobile-satellite service.	
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Col. 1	Col. 2
ADD N 3195AD In radiotelephony, the safety message will be preceded by the safety signal (see N 3195AA), repeated three times.	=DDR/7 (=)USA/24/393 (=)AUS/40/323 =J/60/344 DIF: CEPT-8/15/289 = E/43/278(ADD N3234) (=)CAN/25/216
ADD N 3195AE In narrow-band direct-printing, the safety message will be preceded by the safety signal (see N 3195AA).	=DDR/7 =USA/24/394 =AUS/40/324 =J/60/345 DIF: CEPT-8/15/290 = E/43/279(ADD N3235) (=) CAN/25/217
ADD Section IV. Narrow-Band Direct-Printing Telegraphy System for Transmission of Navigational and Meteorological Warnings and Urgent Information to Ships (NAVTEX)	=DDR/7 =USA/24/395 =CAN/25/218 =AUS/40/325 =J/60/346 (=)CEPT-8/15/291 (=)E/43/280 (Sec. V)
ADD N 3195AF In addition to existing methods, navigational and meteorological warnings and urgent information shall be transmitted by means of narrow-band direct-printing telegraphy, with forward error correction, by selected coast stations and their operational details shall be indicated in the List of Radiodetermination and Special Service Stations (see Nos. 3323, 3326 and 3334). Information is also published in a separate list in accordance with Resolution 318 (Mob-83).	=DDR/7 <u>DIF1</u> : USA/24/396 = CAN/25/219 (=) CEPT-8/15/292(ADD N3236) <u>DIF2</u> : AUS/40/326 <u>DIF3</u> : E/43/281(ADD N3236) <u>DIF4</u> : J/60/347
ADD N3195AFA	AUS/40/327
ADD N 3195AG The mode and format of transmission should be in conformity with relevant CCIR Recommendations.	=DDR/7 =USA/24/397 =CAN/25/220 =J/60/348 (=)CEPT-8/15/293(ADD N3237) (=)AUS/40/330(ADD N3195AH) DIF: E/43/282(ADD N3237)

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Col. 1	Col. 2
ADD N 3195AH In the maritime mobile service the frequency 518 kHz shall be used for the automatic narrow-band direct-printing telegraphy system for transmission of navigational and meteorological warnings and urgent information to ship stations in the MF band (see No. 474).	=DDR/7 =USA/24/398 =CAN/25/221 =J/60/349 (=)CEPT-8/15/294(ADD N3238) DIF1: AUS/40/328-AUS/40/329(ADD N3195AG-3195AGA) DIF2: E/43/283(ADD N3238)
ADD N3195AHA N3195AHB N3195AHC	AUS/40/331-AUS/40/334 (Sec. V)
ADD N3195AHD N3195AHE N3195AHF	AUS/40/335-AUS/40/338 (Sec. VI)
ADD Section V. Navigation Safety Communications	=DDR/7 =USA/24/399 =CAN/25/222 =J/60/350 (=)AUS/40/339 (Sec. VII) DIF: CEPT-8/15/295 = E/43/284 (Sec. VI)
ADD N 3195AI Navigation safety communications are those VHF radiotelephone communications conducted between ships for the purpose of ensuring the safety of movement of ships relative to one another.	=DDR/7 =USA/24/400 =CAN/25/223 =J/60/351 DIF1: CEPT-8/15/296(ADD N3239) DIF2: AUS/40/340 DIF3: E/43/285(ADD N3239)
ADD N 3195 AJ The frequency 156.650 MHz is used for navigation safety communications (see also No. N 2993D and note p) of appendix 18).	=DDR/7 DIF1: USA/24/401 DIF2: CEPT-8/15/297 = E/43/286(ADD N3240) DIF3: CAN/25/224 DIF4: AUS/40/341 DIF5: J/60/352

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Col. 1	Col. 2	
ADD Section VI. General Radiocommunications for Distress and Safety	=DDR/7 =USA/24/402 =CAN/25/225 (=)AUS/40/342	
ADD N 3195AK General radiocommunications for distress and safety are those between mobile stations and shore-based communication networks using non-distress and safety channels in support of distress incident operations.	=DDR/7 =USA/24/403 =CAN/25/226 (=)AUS/40/343	
ADD N 3195AL General radiocommunications for distress and safety purposes may be conducted on any appropriate communications channel, including those used for public correspondence. In the maritime mobile-satellite service, channels in the bands 1530 to 1544 MHz and 1626.5 to 1645.5 MHz are used for this function and, for distress purposes, these channels are used with absolute priority.	=DDR/7 =USA/24/404 (=)CAN/25/227 DIF: AUS/40/344(Sec.VIII)	MOD-0//11/15-E
used with absolute priority.		E
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ADD	ARTICLE N 41	=DDR/7 =CEPT-8/15/298 =USA/24/405 =CAN/25/228 =AUS/40/345 =E/43/287
ADD	ALERTING SIGNALS	=DDR/7 =CEPT-8/15/299 =USA/24/406 =CAN/25/229 =AUS/40/346 =E/43/288
ADD	Section I. Emergency Position-Indicating Radiobeacon Signals	=DDR/7 =CEPT-8/15/300 =USA/24/407 =CAN/25/230 =AUS/40/347 =E/43/289
tran or l	95AM The emergency position-indicating radiobeacon signal smitted on 156.625 MHz, and satellite EPIRB in the band 406-406.1 MHz 645.5 - 1646.5 MHz shall be in accordance with relevant CCIR mmendations.*	=DDR/7 (=)CEPT-8/15/301(ADD N3287) DIF1: USA/24/408 = CAN/25/231 DIF2: AUS/40/348 DIF3: E/43/290 (ADD N3287)
	i	
ADD N319	5.444	CAN/25/232
	Section II. Digital Selective Calling	=DDR/7 =CEPT-8/15/302 =USA/24/409 =CAN/25/233 =AUS/40/349 =E/43/291
		$\phi_{i} = \phi_{i} \phi_$
the	95A0 The characteristics of the "distress call" (see No. N 3172) in digital selective calling system shall be in accordance with relevant Recommendations.	=DDR/7 =USA/24/410 =CAN/25/233 =AUS/40/350 (=)CEPT-8/15/303 (=)E/43/292 (ADD N3288)
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INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/2-E 14 September 1987

Draft

Note by the Secretary-General

STRUCTURE OF THE WORLD ADMINISTRATIVE RADIO CONFERENCE FOR MOBILE SERVICES (Geneva, 1987)

The agenda of the Conference appears in Resolution No. 933 which was adopted by the Administrative Council at its 40th Session (Geneva, 1985).

Bearing in mind Nos. 464 to 479 inclusive of the International Telecommunication Convention, Nairobi, 1982, the following committees with their terms of reference are suggested. These terms of reference have been drawn up within the framework of the Convention, the Conference Agenda and in the light of experience at previous conferences.

Committee 1 - Steering Committee

Terms of Reference:

Coordinate all matters connected with the smooth execution of work and plan the order and number of meetings, avoiding overlapping wherever possible in view of the limited number of members of some delegations (Nos. 468 and 469 of the International Telecommunication Convention, Nairobi, 1982).

Committee 2 - Credentials Committee

Terms of Reference:

the Plenary Meeting within the time specified by the latter (Nos. 390 and 471 of the International Telecommunication Convention, Nairobi, 1982).

Committee 3 - Budget Control Committee

Terms of Reference:

the organization and the facilities available to the Determine delegates, examine and approve the accounts of expenditure incurred throughout the duration of the Conference and report to the Plenary Meeting the estimated total expenditure of the Conference, as well as the estimated costs entailed by the execution of the decisions of the 476 to 479 inclusive of Conference (Nos. the International Telecommunication Convention, Nairobi, 1982 and Nairobi Resolution 48).

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Committee 4 - Frequency Committee

Terms of Reference:

Review and revise, as necessary, provisions of the Radio Regulations in so far as frequency matters are concerned for the following Articles and Appendices of the Radio Regulations, as stipulated in agenda items 1, 2, 3, 4 and 6:

- Articles : 1, 8, 9, 12, 16, 19, 37, 38, 50, 60;

- Appendices: 5, 9, 16, 18, 25, 26, 31-35;

- review and take appropriate action, as necessary, in so far as frequency matters are concerned, on the following Resolutions and Recommendations of WARCs 79 and 83 (Mob) as well as RARCs MM-R1-85 and EMA-R1-85, as specified in agenda items 5 and 7:

- <u>Resolutions</u>: 8, 9, 30, 38, 200(Rev. Mob-83), 203(Mob-83), 204(Mob-83), 205(Mob-83), 206(Mob-83), 300-304, 306-309, 310(Rev. Mob-83), 318(Mob-83), 319(Mob-83), 400-402, 404-407, 600, 704(Mob-83);
- <u>Recommendations</u>: 203, 300-305, 307, 308, 314(Mob-83), 400, 406, 600, 601, 703, 707, 2(EMA), 1(MM), 2(MM), 3(MM), 4(MM), 5(MM), 6(MM).

Committee 5 - Distress and Safety Committee

Terms of Reference:

Review and revise, as necessary, provisions of the Radio Regulations in so far as distress and safety services and related matters (other than frequency matters) are concerned for the following Articles and Appendices of the Radio Regulations, as stipulated in agenda items 1, 2, 4 and 6:

- Articles : 1, 26, 35, 37-42, 59, 60;

- Appendices: 9-11, 31, 36, 37, 37A;

- review and take appropriate action, as necessary, in so far as distress and safety services and related matters (other than frequency matters) are concerned, on the following Resolutions and Recommendations of WARCs 79 and 83 (Mob) as specified in agenda items 5 and 7:

- <u>Resolutions</u>: 200(Rev. Mob-83), 203(Mob-83), 204(Mob-83), 206(Mob-83), 317(Mob-83), 318(Mob-83), 321(Mob-83), 322(Mob-83), 600:

- <u>Recommendations</u>: 201(Rev. Mob-83), 203, 204(Rev. Mob-83), 303, 306, 307, 311, 314(Mob-83), 317(Mob-83), 600, 604(Rev. Mob-83), 713(Mob-83).

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<u>Committee 6 - Mobile and Radiodetermination Services (except Distress and</u> Safety) Committee

Terms of Reference:

Review and revise, as necessary, provisions of the Radio Regulations in so far as the Mobile and Radiodetermination Services (excluding frequency matters, Distress and Safety), and related matters are concerned, for the following Articles and Appendices of the Radio Regulations, as stipulated in agenda items 1, 2, 3, 4 and 6:

- Articles : 1, 19, 24-26, 35, 42A, 43-68;

- Appendices: 9-14, 26, 31, 38, 39, 41-44;

- review and take appropriate action, as necessary, in so far as the Mobile and Radiodetermination Services (excluding frequency matters, Distress and Safety) and related matters are concerned, on the following Resolutions and Recommendations of WARCs 79 and 83 (Mob) as specified in agenda items 5 and 7:

- <u>Resolutions</u>: 12, 13, 202, 204(Mob-83), 304, 308, 311, 312, 314, 316, 319, 320(Mob-83), 405-407, 600;

- <u>Recommendations</u>: 7, 8, 203, 204, 301, 302, 305, 310, 312, 313(Rev. Mob-83), 315(Mob-83), 316(Mob-83), 405, 600, 601.

Committee 7 - Editorial Committee

Terms of Reference:

Perfect the form of the texts prepared in the various committees of the Conference, without altering the sense, for submission to the Plenary Meeting (Nos. 473 and 474 of the International Telecommunication Convention, Nairobi, 1982).

Working Group of the Plenary Meeting - Technical Working Group

Terms of Reference:

Review and revise, as necessary, technical criteria and parameters relevant to the various Articles and Appendices of the Radio Regulations as specified in the agenda, in particular:

- Articles : 35, 60;

- Appendices: 7, 17, 19, 20, 36, 37, 37A, 38-40;

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- review and take appropriate action, as necessary, on technical criteria and parameters relevant to the various Resolutions and Recommendations of WARCs 79 and 83 (Mob) and RARC EMA-R1-85 as specified in the agenda, in particular:

- Resolutions: 306, 307, 601, 3(EMA);

- Recommendations: 310-312, 313(Rev. Mob-83), 405, 603, 604(Rev. Mob-83), 605.

NOTE

A number of Articles, Appendices, Resolutions and Recommendations will require consideration in more than one Committee and/or the Technical Working Group.

Primary responsability of Appendix 31 rests with Committee 4. Primary responsabilities of matters involving more than one Committee or Working Group of the Plenary are presented in Annex.

Annex

Annex

Articles/Artículos

				GT/PL		
ART	Com4	Com5	Сотб	WG/PL	Observations/Remarks/Observaciones	
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PR = Responsabilité primaire Primary responsability Responsabilidad primaria

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Annex

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Appendices/Apéndices

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Annex

Resolutions/Resoluciones

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319m	+		(+)		PR: C4	
320m			+			
321m		+				
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RP = Responsabilité primaire Primary responsability Responsabilidad primaria

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Annex

Recommendations/Recomendaciones

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PR = Responsabilité primaire Primary responsability Resposabilidad primaria

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INTERNATIONAL TELECOMMUNICATION UNION

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

GENEVA, September-October 1987

Document DT/3-E 11 September 1987 Original : French

HEADS OF DELEGATIONS

DRAFT AGENDA OF THE

FIRST PLENARY MEETING

Monday, 14 September 1987, at 1430 hrs

(Room I)

Document No.

1.	Approval of the agenda	. –
2.	Opening of the Conference	-
3.	Election of the Chairman of the Conference	-
4.	Election of the Vice-Chairmen of the Conference	-
5.	Address by the Secretary-General	-
6.	Conference Structure	DT/2
7.	Election of the Chairmen and Vice-Chairmen of the Committees	- -
8.	Composition of the Conference Secretariat	_
9.	Allocation of documents to Committees	DT/4
10.	Requests for participation received from international organizations	87
11.	Date by which the Credentials Committee must submit its conclusions	-
12.	Working hours of the meetings of the Conference	-
13.	Financial responsabilities of administrative conferences	73
14.	Other business	-

R.E. BUTLER Secretary-General **INR-R7** UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS CAMR POUR LES SERVICES MOBILES Document DT/4-F/E/S 11 septembre 1987 Original: anglais

GENÈVE, septembre-octobre 1987

SEANCE PLENIERE / PLENARY MEETING / SESION PLENARIA

Projet / Draft / Proyecto

Note du Secrétaire général / Note by the Secretary-General / Nota del Secretario General

ATTRIBUTION DES DOCUMENTS / ALLOCATION OF DOCUMENTS / ATRIBUCION DE LOS DOCUMENTOS

Séance plénière / Plenary Meeting / Sesión plenaria : 87

C2 - Pouvoirs / Credentials / Credenciales : -

C3 - Contrôle budgétaire / Budget Control / Control del presupuesto :

71, 72, 73

C4 - Fréquences / Frequency / Frecuencias :

3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, 22, 23, 24, 25, 28, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 42, 43, 45, 46, 47, 49, 52, 53, 55, 57, 58, 59, 60, 61, 63, 64, 74(F/G)*), 75(S)*), 76(TUN)*), 77(PHL)*), 86(CTI)*), 89(ALG)*), 90(SDN)*)

C5 - Questions de détresse et de sécurité / <u>Distress and Safety</u> / Socorro y seguridad :

3, 4, 5, 7, 8, 9, 15, 18, 20, 21, 22, 24, 25, 28, 30, 31, 32, 33, 34, 36, 37, 40, 42, 43, 49, 55, 57, 58, 59, 60, 61, 63, 70, 76(TUN)*), 77(PHL)*), 86(CTI)*), 89(ALG)*)

C6 - Services mobiles et de radiorepérage (à l'exception des services de détresse et de sécurité) / <u>Mobile and Radiodetermination Services (except</u> <u>Distress and Safety</u>) / Servicios móviles y de radiodeterminación (excepto las cuestiones de socorro y seguridad :

3, 4, 5, 7, 8, 14, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 36, 37, 38, 39, 40, 42, 44, 48, 49, 52, 54, 55, 57, 58, 59, 60, 61, 63, 64, 70, 77(PHL)*, 86(CTI)*, 89(ALG)*)

*) Documents en préparation / <u>Documents being prepared</u> / Documentos en preparación

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- 2 -DT/4-F/E/S

GT/WG-PL (technique / Technical / técnico) :

3, 5, 7, 8, 10, 18, 23, 24, 25, 28, 29, 30, 32, 33, 36, 40, 42, 47, 48, 56, 58, 60, 61, 62, 63, 65, 66, 67, 68, 69, 77(PHL)*), 78(USA)*), 79(USA)*), 80(USA)*), 81(USA)*), 82(USA)*), 83(USA)*), 84(USA)*), 86(CTI)*), 89(ALG)*)

R.E. BUTLER Secrétaire général

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*) Documents en préparation / <u>Documents being prepared</u> / Documentos en preparación

Pas attribués / Not allocated / No atribuidos : 1, 2, 41, 50, 51, 85*), 88*)

DR-R7 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/5-E 14 September 1987 Original: English

COMMITTEE 6

Note from the Chairman of Committee 6

DRAFT PROPOSAL FOR THE ORGANIZATION OF COMMITTEE 6

The following are the terms of reference for the proposed Working Groups of Committee 6.

Working Group 6-A

Review and revise, as necessary, the provisions of the Radio Regulations relating to the maritime mobile and maritime mobile-satellite services (excluding frequency matters, distress and safety) for the following:

1. Articles: 1, 19, 26, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66

2. Appendices: 9, 11, 12, 14, 31, 38, 39, 43, 44

- 3. Resolutions: 204, 304, 308, 311, 312, 314, 316, 319, 320
- 4. Recommendations: 7, 203, 301, 302, 305, 310, 312, 313, 315, 316

Working Group 6-B

Review and revise, as necessary, the provisions of the Radio Regulations relating to aeronautical and land mobile services and their associated mobile-satellite services, radiodetermination and radiodeterminationsatellite services (excluding frequency matters and distress and safety) for the following:

- 1. Articles: 1, 19, 24, 25, 26 (list VI), 35, 42A to 53, 67, 68
- 2. Appendices: 10, 13, 26, 41, 42
- 3. Resolutions: 12, 13, 202, 405, 406, 407, 600
- 4. Recommendations: 7, 8, 204, 405, 600, 601, 604

I.R. HUTCHINGS Chairman of Committee 6



Document DT/6-E 15 September 1987 Original: English

WORKING GROUP 5-A

Note by the Chairman of Working Group 5-A

The terms of reference of Working Group 5-A as approved at the first meeting of Committee 5 are as follows:

To prepare new Chapter NIX using Document DT/1B and Addendum 1 as a base document, taking into account all proposals to the Conference, as well as suggestions made during discussions, which address new Articles N37-N42 inclusive, and to include the necessary provisions relating to Resolution No. 203 concerning the use of certain frequencies in this Chapter by the land mobile service.

> U. HAMMERSCHMIDT Chairman of Working Group 5-A

NOB-87 INTERNATIONAL TELECOMMENT WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/7-E 15 September 1987 Original: English

WORKING GROUP 5-B

TERMS OF REFERENCE OF WORKING GROUP 5-B

The terms of reference of Working Group 5-B as approved at the first meeting of Committee 5 are as follows:

To prepare a revised version of Chapter IX (Articles 37-42) of the Radio Regulations, using Document DT/1A, pages 20-30 inclusive, as a base document, taking into account all relevant proposals to the Conference as well as suggestions made during discussions.

> T. HAHKIO Chairman of Working Group 5-B

NOB-87 INTERNATIONAL TELECOMMENTS SERVICES GENEVA, September-October 1987

Document DT/8-E 15 September 1987 Original: English

WORKING GROUP 6-B

Note by the Chairman of Working Group 6-B

ATTRIBUTION OF TERMS OF REFERENCE ASSIGNED TO WORKING GROUP 6-B

1. Aeronautical services

: 42A, 43, 44, 45, 46, 47, 48, 49, 50*, 51, 52, Articles 53 (Chapter X) Appendices : 13, 26 Resolutions Nos. : 405, 406, 407 Recommendations Nos.: 7, 405, 604*

2. Radiodetermination services

: 26, 35 Articles : 41 Appendix Resolution No. : 600 Recommendations Nos.: 600*, 601

3. Land mobile services

> Articles : 67, 68

4. Miscellaneous

> Articles : 1, 19, 24, 25 Appendices : 10, 13, 42 Resolutions Nos. : 12, 202 Recommendations Nos.: 8, 204

> > Y. HIRATA Chairman of Working Group 6-B

Secondary responsibility.



INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/9(Rev.2)-E 21 September 1987 Original: English

TECHNICAL WORKING GROUP PLENARY

Draft

FIRST REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY .

The Technical Working Group of the Plenary considered all proposals concerning Appendix 7 to the Radio Regulations and adopted the modifications contained in the annex. The dates to be entered in Notes 1 to 4 are closely related to the date of implementation of the global maritime distress and safety system. They can only be determined when this latter date is known.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

Note to the Editorial Committee - Attention is drawn to the fact that column 2 as well as Notes 11, 17, 18, 30, 34 and 35 may be removed if the date of entry into force of the Final Acts of this Conference is after 1 January 1990.

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ANNEX

AP7-1

APPENDIX 7

Table of Transmitter Frequency Tolerances

(See Article 5)

- 1. NOC
- 2. NOC
- 3. NOC

Frequency Bands (lower limit exclusive, upper limit inclusive) and Categories of Stations	Tolerances applicable until 1 January 1990 to transmitters installed before 2 January 1985	Tolerances applicable to transmitters installed after 1 January 1985 and to all transmitters after 1 January 1990
1	2	3
Band: 9 kHz to 535 kHz		
1. Fixed Stations:		
— 9 kHz to 50 kHz	1 000	100
— 50 kHz to 535 kHz	200	50
2. Land Stations:		
a) Coast Stations:		100 1) 2)
- power 200 W or less	500 1)	
- power above 200 W	200 1)	
b) Aeronautical Stations	100	100

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3. Mobile Stations:		
a) Ship Stations	1 000 3)	200 3) 4)
b) Ship's Emergency		
Transmitters	5 000	- 500 · <i>.5)</i>
c) Survival Craft Stations	5 000	500
d) Aircraft Stations	500	100
4. Radiodetermination		
Stations	100	100
5. Broadcasting Stations	10 Hz	10 Hz
Band: 535 kHz to 1 606.5 kHz (1 605 kHz in Region 2)		
Band: 1 606.5 kHz (1 605 kHz in Region 2) to 4 000 kHz		
1. Fixed Stations:		
- power 200 W or less	100	100 7) 8)
- power above 200 W	50	50 7) 8)
2. Land Stations:		
- power 200 W or less	100 1) 9) 10)	100 1)2)7)9)10
- power above 200 W	50 1) 9) 10)	50 1)2)7)9)10)
3. Mobile Stations:		
a) Ship Stations	200 3) 11)	40 Hz 12) 3) 4
b) Survival Craft Stations	300	100
c) Emergency Position- Indicating Radiobeacons		100
d) Aircraft Stations	300	100
e) Land Mobile Stations	100 <i>10)</i> 200	100 <i>10)</i> 50 <i>13)</i>
	200	50 157
4. Radiodetermination Stations:		
- power 200 W or less	100	20 14)
- power above 200 W	50	10 14)
	1	1

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1	2	3
Band: 4 MHz to 29.7 MHz		
1. Fixed Stations:		
- power 500 W or less	50	
— power above 500 W	15	,
a) Single-sideband and independent- sideband emissions :		
- power 500 W or less		50 Hz
- power above 500 W		20 Hz
b) Class F1B emissions		10 Hz
c) Other classes of emission:		
- power 500 W or less		. 20
- power above 500 W		10
2. Land Stations:		
a) Coast Stations:	•	. 20 Hz 1) 2) 1
- power 500 W or less	50 1) 9)	
 power above 500 W and less than or equal to 5 kW 	30 1) 9)	
- power above 5 kW	15 1) 9)	
b) Aeronautical Stations:		: •
- power 500 W or less	100 10)	100 10)
- power above 500 W	50 10)	50 10)
c) Base Stations:		20 7)
- power 500 W or less	100	
- power above 500 W	50	
3. Mobile Stations:		· ·
a) Ship Stations:		
1) Class A1A emissions	50 17) 18)	10
2) Emissions other than Class A1A	50 3) 11)	50 Hz 3) 4)

AP7-4

1	2	3
b) Survival Craft Stations	200	50
c) Aircraft Stations	100 <i>10)</i>	100 10)
d) Land Mobile Stations	200	40 20)
4. Broadcasting Stations	15	10 Hz 15) 21
5. Space Stations		20
6. Earth Stations		20
Band: 29.7 MHz to 100 MHz		
Band: 100 MHz to 470 MHz		
1. Fixed Stations:		
- power 50 W or less	50	20 26)
- power above 50 W	20	10
2. Land Stations:		
a) Coast Stations	10	10
b) Aeronautical Stations	50	20 28)
c) Base Stations:		ŕ
- power 5 W or less	50 _	
– power above 5 W	20	
— in the band 100 - 235 MHz		15 29)
— in the band 235 - 401 MHz		7 29)
— in the band 401 - 470 MHz		5 29)
3. Mobile Stations:		
a) Ship Stations and Survival Craft Stations:		
— in the band 156 - 174 MHz	10	10
— outside the band 156 - 174 MHz	50 <i>30) 31)</i>	50 31)
b) Aircraft Stations	50	30 <i>28)</i>
c) Land Mobile Stations:		
— power 5 W or less	50	
— power above 5 W	20	

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	1	2	3
	— in the band 100 - 235 MHz		15 29)
	— in the band 235 - 401 MHz		7 29) 32)
	— in the band 401 - 470 MHz		5 29) 32)
	4. Radiodetermination Stations	50 30) 33)	50 <i>33)</i>
	5. Broadcasting Stations (other than television)	20	2 000 Hz 23)
	6. Broadcasting Stations (television sound and vision):		500 Hz 24) 25)
	 power 100 W or less power above 100 W 	100 1 000 Hz	
	7. Space Stations		20
	8. Earth Stations		20
10C	Band: 470 MHz to 2 450 MHz		
JOC	Band: 2 450 MHz to 10 500 MHz		
JOC	Band: 10.5 GHz to 40 GHz		

	Notes in the Table of Transmitter Frequency Tolerances
MOD	(1) For coast station transmitters used for direct-printing telegraphy or for data transmission the tolerance is:
	- 5 Hz for narrow-band phase-shift keying;
	- 10 Hz for frequency shift keying for transmitters installed after [];
	- 15 Hz for frequency shift keying for transmitters in use or installed before [].
MOD	 (2) For coast station transmitters used for digital selective calling the tolerance is 10 Hz. This tolerance applies to transmitters installed after [] and to all transmitters after [].
MOD	(3) For ship station transmitters used for direct-printing telegraphy or for data transmission the tolerance is:
	- 5 Hz for narrow-band phase-shift keying;
	 10 Hz for frequency shift keying for transmitters installed after [];
	- 40 Hz for frequency shift keying for transmitters in use or installed before [].
MOD	 (4) For ship station transmitters used for digital selective calling the tolerance is 10 Hz. This tolerance applies to transmitters installed after [] and to all transmitters after [].
NOC	(5) and (6)
MOD	(7) For single-sideband radiotelephone transmitters except at coast stations the tolerance is:
	 in the bands 1 606.5 (1 605 Region 2) - 4 000 kHz and 4 - 29.7 MHz for peak envelope powers of 200 W or less and 500 W or less, respectively, 50 Hz;
	- in the bands 1 606.5 (1 605 Region 2) - 4 000 kHz and 4 - 29.7 MHz for peak envelope powers above 200 W and 500 W, respectively, 20 Hz.
NOC	(8) to (10)

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(11) For ship station single-sideband radiotelephone transmitters the tolerance is:

- a) in the band 1 606.5 (1 605 in Region 2) 4 000 kHz;
 - 100 Hz for transmitters installed before 2 January 1982;

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- 50 Hz for transmitters installed after 1 January 1982;
- b) in the band 4 000 27 500 kHz;
 - 100 Hz for transmitters installed before 2 January 1978;
 - 50 Hz for transmitters installed after 1 January 1978.

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NOC (12) to (26)

SUP (27)

NOC

(28) to (36).

WOB-87 WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

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Document DT/9(Rev.1)-E 16 September 1987 Or<u>iginal</u>: English

TECHNICAL WORKING GROUP PLENARY

Draft

FIRST REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary considered all proposals concerning Appendix 7 to the Radio Regulations and adopted the modifications contained in the annex.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

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Note to the Editorial Committee - Attention is drawn to the fact that column 2 may be removed if the date of entry into force of the Final Acts of this Conference is after 1 January 1990.

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ANNEX

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APPENDIX 7

Table of Transmitter Frequency Tolerances

(See Article 5)

1. NOC

2. NOC

3. NOC

Frequency Bands (lower limit exclusive, upper limit inclusive) and Categories of Stations	Tolerances applicable until 1 January 1990 to transmitters installed before 2 January 1985	Tolerances applicable to transmitters installed after 1 January 1985 and to all transmitters after 1 January 1990
1	2	3
Band: 9 kHz to 535 kHz		
1. Fixed Stations:		
9 kHz to 50 kHz	1 000	100
— 50 kHz to 535 kHz	200	50
2. Land Stations:		
a) Coast Stations: — power 200 W or less — power above 200 W	1 500 2) 200 2)+ 1	100 <i>1)</i> 2)
b) Aeronautical Stations	100	100

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1	2	3
3. Mobile Stations:		
a) Ship Stations	1 000 3)	200-++-3) 4)
b) Ship's Emergency		
Transmitters	5 000	500 <i>5)</i>
c) Survival Craft Stations	5 000	500
d) Aircraft Stations	500	100
4. Radiodetermination		
Stations	100	100
5. Broadcasting Stations	10 Hz	10 Hz
Band: 535 kHz to 1 606.5 kHz (1 605 kHz in Region 2)		
Band: 1 606.5 kHz (1 605 kHz in Region 2) to 4 000 kHz		
1. Fixed Stations:		
- power 200 W or less	100	100 7) 8)
- power above 200 W	50	50 7) 8)
2. Land Stations:	1	2)
- power 200 W or less	100 2) 9) 10)	100 <i>1)*7) 10)</i>
— power above 200 W	50 국)-9) 10)	50 1) ₊ 7) 10)
3. Mobile Stations:	1	2)
a) Ship Stations	200 3) 11)	40 Hz 12) 4)
b) Survival Craft Stations	300	100
c) Emergency Position- Indicating Radiobeacons	300	100
d) Aircraft Stations	100 <i>10)</i>	100 10)
e) Land Mobile Stations	200	50 13)
4. Radiodetermination Stations:		
 power 200 W or less power above 200 W 	100 50	20 <i>14)</i> 10 <i>14)</i>
5. Broadcasting Stations	20	10 Hz 15)

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1 .	2	3
Band: 4 MHz to 29.7 MHz		
1. Fixed Stations:		
- power 500 W or less	50	
- power above 500 W	15	
a) Single-sideband and independent- sideband emissions:		
- power 500 W or less		50 Hz
- power above 500 W		20 Hz
b) Class F1B emissions		10 Hz
c) Other classes of emission:		
- power 500 W or less		20
- power above 500 W		10
2. Land Stations:		2)
a) Coast Stations:	1	20 Hz 1) ⁴ 16)
- power 500 W or less	50 2) 9)	
- power above 500 W and	1	
less than or equal to 5 kW	30 李 9)	
— power above 5 kW	15 2) 9)	
b) Aeronautical Stations:	1	
- power 500 W or less	100 10)	100 10)
- power above 500 W	50 10)	50 10)
c) Base Stations:		20 7)
- power 500 W or less	100	
- power above 500 W	50	
3. Mobile Stations:		
a) Ship Stations:		
1) Class A1A emissions	50 17) 18)	10
2) Emissions other than		3) 4)
Class A1A	50 <i>3) 11)</i>	50 Hz + 19)

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1	2	3
b) Survival Craft Stations	200	50
c) Aircraft Stations	100 <i>10</i>)	100 10)
d) Land Mobile Stations	200	40 20)
	200	
4. Broadcasting Stations	15	10 Hz_15) 21)
5. Space Stations		20
6. Earth Stations		20
Band: 29.7 MHz to 100 MHz		
Band: 100 MHz to 470 MHz		
1. Fixed Stations:		
— power 50 W or less	50	20 26)
— power above 50 W	20	10
2. Land Stations:		
a) Coast Stations	20-27)- 10	10
b) Aeronautical Stations	50	20 28)
c) Base Stations:		
— power 5 W or less	50	
— power above 5 W	20	
— in the band 100 - 235 MHz		15 29)
— in the band 235 - 401 MHz		7 29)
— in the band 401 - 470 MHz		5 29)
3. Mobile Stations:		
a) Ship Stations and Survival Craft Stations:		
— in the band 156 - 174 MHz	20 -27 - 10	10
— outside the band 156 - 174 MHz	50 30) 31)	50 31)
b) Aircraft Stations	50	30 28)
c) Land Mobile Stations:		
- power 5 W or less	50	
— power above 5 W	20	

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		3
— in the band 100 - 235 MI	Hz	15 29)
— in the band 235 - 401 MH	Hz	7 29) 32)
— in the band 401 - 470 MI	Hz	5 29) 32)
4. Radiodetermination Stations	50 30) 33)	50 33)
5. Broadcasting Stations (other than television)	20	2 000 Hz 23)
6. Broadcasting Stations (television sound and vision):		500 Hz 24) 2.
 power 100 W or less power above 100 W 	100 1 000 Hz	
7. Space Stations		20
8. Earth Stations		20
Band: 470 MHz to 2 450 MHz		
Band: 2 450 MHz to 10 500 MHz		
Band: 10.5 GHz to 40 GHz		······

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Notes in the Table of Transmitter Frequency Tolerances

MOD	1) For coast station transmitters used for direct-printing telegraphy or for data transmission, the tolerance is 15 Hz for frequency shift keying and 5 Hz for narrow-band phase-shift keying.
MOD	 For coast station transmitters used for digital selective calling the tolerance is 10 Hz. This tolerance applies to transmitters installed after [] and to all transmitters after [].
MOD	3) For ship station transmitters used for direct-printing telegraphy or for data transmission, the tolerance is 40 Hz, for frequency shift-keying and 5 Hz for narrow-band phase-shift keying.
MOD	4) For ship station transmitters used for digital selective calling the tolerance is 10 Hz. This tolerance applies to transmitters installed after [] and to all transmitters after [].
NOC	5) to 10)
MOD	11) For ship station single-sideband radiotelephone transmitters the tolerance is:
	a) in the band 1 606.5 [(1 625 in Region 2)] [(2 065 in Regions 2 and 3)] - 4 000 kHz;
	- 100 Hz for transmitters in use or to be installed before 2 January 1982;
	- 50 Hz for transmitters installed after 1 January 1982, but before 1 January 1985;
	b) in the band 4 000 - [27 500] [26 175] kHz;
	 100 Hz for transmitters in use before 2 January 1978;
	- 50 Hz for transmitters installed after 1 January 1978.
	[(See also Appendix 17.)]
NOC	12) to 26)
SUP	27)
NOC	28) to 36).



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TECHNICAL WORKING GROUP PLENARY

Draft

FIRST REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary considered all proposals concerning Appendix 7 to the Radio Regulations and adopted the modifications contained in the annex.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

Note to the Editorial Committee - Attention is drawn to the fact that column 2 may be removed if the date of entry into force of the Final Acts of this Conference is after 1 January 1990.

ANNEX

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APPENDIX 7

Table of Transmitter Frequency Tolerances

(See Article 5)

1. NOC

2. NOC

3. NOC

Frequency Bands (lower limit exclusive, upper limit inclusive) and Categories of Stations	Tolerances applicable until 1 January 1990 to transmitters in-use and to those to be installed before 2 January 1985	Tolerances applicable to new transmitters installed after 1 January 1985 and to all transmitters after 1 January 1990
1	2	3
Band: 9 kHz to 535 kHz		
— 9 kHz to 50 kHz — 50 kHz to 535 kHz	1 000 200	100 50
 2. Land Stations: a) Coast Stations: power 200 W or less power above 200 W 	1 500 2) 200 2)+ 1	100 <i>I)</i> 2)
b) Aeronautical Stations	100	100

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1	2	3
3. Mobile Stations:		
a) Ship Stations	1 000 3)	200-47-3)
b) Ship's Emergency		200 47 57
Transmitters	5 000	500 5)
c) Survival Craft Stations	5 000	500
d) Aircraft Stations	500	100
4. Radiodetermination Stations	100	100
5. Broadcasting Stations	10 Hz	10 Hz
Band: 535 kHz to 1 606.5 kHz (1 605 kHz in Region 2)		
Broadcasting Stations	10 Hz 6)	10 Hz 6)
1. Fixed Stations:		
	100	100 7) 8)
 Fixed Stations: power 200 W or less power above 200 W 	100 50	100 7) 8) 50 7) 8)
- power 200 W or less	50 1	50 7) 8)
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less 	50 1 100 2) 9) 10)	50 7) 8) 2) 100 1)*7) 10)
 power 200 W or less power above 200 W 2. Land Stations: 	50 1	50 7) 8) 2) 100 1)*7) 10) 50 1) _* 7) 10)
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less 	50 $\frac{1}{100 + 2} 9 10$ $50 \frac{2}{2} 9 10$ 1	$ \begin{array}{c} 50 & 7) & 8) \\ 2 & 2 \\ 100 & 1)^* 7) & 10) \\ 50 & 1)_{*} 7) & 10) \\ 2 & 2 \end{array} $
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less power above 200 W 3. Mobile Stations: a) Ship Stations 	50 1 $100 \frac{2}{2} 9 10$ $50 \frac{2}{2} 9 10$ 1 1 $200 3 11$	$ \begin{array}{c} 50 & 7) & 8) \\ 2 & 2 \\ 100 & 1)^* 7) & 10) \\ 50 & 1)_{*} 7) & 10) \\ 2 & 2 \end{array} $
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less power above 200 W 3. Mobile Stations: a) Ship Stations b) Survival Craft Stations 	50 $\frac{1}{100 + 2} 9 10$ $50 \frac{2}{2} 9 10$ 1	50 7) 8) 2) 100 1)*7) 10) 50 1) _* 7) 10)
 power 200 W or less power above 200 W <i>Land Stations:</i> power 200 W or less power above 200 W <i>Mobile Stations:</i> a) Ship Stations b) Survival Craft Stations c) Emergency Position- 	50 $\frac{1}{100 + 2} (9) (10)$ $50 + 2(-9) (10)$ 1 $200 + 3(-11)$ 300	50 7) 8) $2)$ $100 1)*7) 10)$ $50 1)*7) 10)$ $2)$ $40 Hz 12) 10$ 100
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less power above 200 W 3. Mobile Stations: a) Ship Stations b) Survival Craft Stations c) Emergency Position- Indicating Radiobeacons 	50 1 $100 \frac{2}{2} 9 10$ $50 \frac{2}{2} 9 10$ 1 1 $200 3 11$	$ \begin{array}{c} 50 & 7) & 8) \\ 2) \\ 100 & 1)^{\bullet} 7) & 10) \\ 50 & 1)_{\bullet} 7) & 10) \\ 2) \\ 40 & \text{Hz} & 12) & 10 \end{array} $
 power 200 W or less power above 200 W <i>Land Stations:</i> power 200 W or less power above 200 W <i>Mobile Stations:</i> a) Ship Stations b) Survival Craft Stations c) Emergency Position- 	50 1 $100 = 29910$ $50 = 29910$ 1 $200 = 3111$ 300 300	50 7) 8) $2)$ $100 1)*7) 10)$ $50 1)*7) 10)$ $2)$ $40 Hz 12) 2$ 100 100
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less power above 200 W 3. Mobile Stations: a) Ship Stations b) Survival Craft Stations c) Emergency Position-Indicating Radiobeacons d) Aircraft Stations 	50 1 $100 \frac{2}{2}9910$ $50 \frac{2}{2}910$ 1 $200 3111$ 300 300 $100 10$	$50 7) 8)$ $2)$ $100 1)*7) 10)$ $50 1)_{*}7) 10)$ $2)$ $40 Hz 12) 10$ 100 100 $100 10)$
 power 200 W or less power above 200 W 2. Land Stations: power 200 W or less power above 200 W 3. Mobile Stations: a) Ship Stations b) Survival Craft Stations c) Emergency Position-Indicating Radiobeacons d) Aircraft Stations e) Land Mobile Stations 4. Radiodetermination Stations: power 200 W or less 	50 1 $100 \frac{2}{2} 9 10$ $50 \frac{2}{2} 9 10$ 1 $200 3 11$ 300 300 $100 10$ 200 100	50 7) 8) $2)$ $100 1)*7) 10)$ $50 1)*7) 10)$ $2)$ $40 Hz 12) 4$ 100 100 100 $100 10)$ $50 13)$ $20 14)$
 power 200 W or less power above 200 W Land Stations: power 200 W or less power above 200 W Mobile Stations: a) Ship Stations b) Survival Craft Stations c) Emergency Position-Indicating Radiobeacons d) Aircraft Stations e) Land Mobile Stations 4. Radiodetermination Stations: Stations: 	50 $100 \frac{1}{29} 9) 10)$ $50 \frac{1}{29} 9) 10)$ 1 $200 3) 11)$ 300 300 $100 10)$ 200	50 7) 8) $2)$ $100 1)*7) 10)$ $50 1)*7) 10)$ $2)$ $40 Hz 12) 4$ 100 100 100 $100 10)$ $50 13)$

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1	2	3 .
Band: 4 MHz to 29.7 MHz		
1. Fixed Stations:		•
- power 500 W or less	50	
- power above 500 W	15	
a) Single-sideband and independent- sideband emissions:		
— power 500 W or less		50 Hz
- power above 500 W		20 Hz
b) Class F1B emissions		10 Hz
c) Other classes of emission:		
- power 500 W or less		20
- power above 500 W		10
2. Land Stations:		2)
a) Coast Stations:	1	. 20 Hz 1) ⁴ 16)
— power 500 W or less	50 2) 9)	
 power above 500 W and less than or equal to 5 kW 	1 30 <i>差) 9)</i>	
- power above 5 kW	15 2) 9)	
b) Aeronautical Stations:	1	
- power 500 W or less	100 <i>10)</i>	100 <i>10)</i>
— power above 500 W	50 <i>10)</i> .	50 10)
c) Base Stations:		20 7)
- power 500 W or less	100	
- power above 500 W	50	
3. Mobile Stations:		
a) Ship Stations:		
1) Class A1A emissions	50 17) 18)	10
2) Emissions other than Class A1A	50 3) 11)	3) 4) 50 Hz 4) 19)

AP	7-4
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1	2	3
b) Survival Craft Stations	200	50
c) Aircraft Stations	100 10)	100 <i>10)</i>
d) Land Mobile Stations	200	40 <i>20)</i>
4. Broadcasting Stations	15	10 Hz 15) 21)
5. Space Stations		20
6. Earth Stations		20
Band: 29.7 MHz to 100 MHz		
1. Fixed Stations:		
- power 200 W or less	50	
— power above 200 W	30	
- power 50 W or tess		30
- power above 50 W		20
2. Land Stations:		20
- power 15 W or less	50	
— power above 15 W	20	
3. Mobile Stations:		20 22)
- power 5 W or less	100	20 22)
- power above 5 W	50	
4. Radiotermination Stations	200	50
5. Broadcasting Stations (other than television):		2 000 Hx 23)
power 50 W or less	50	
- power above 50 W	20	

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1	2	3
6. Broadcasting Stations (television sound and		
vision):		500 Hz 24) 25)
- power 50 W or less	100	
- power above 50 W	1 000 Hz	
7. Space Stations		20
8. Earth Stations		20
·	· · · · · · · · · · · · · · · · · · ·	
Band: 100 MHz to 470 MHz		
1. Fixed Stations:		
- power 50 W or less	50	20 26)
- power so w of itss - power above 50 W	20	10
	20	10
2. Land Stations:		
a) Coast Stations	20-27)- 10	10
b) Aeronautical Stations	50	20 28)
c) Base Stations:		
— power 5 W or less	50	
— power above 5 W	20	
— in the band 100 - 235 MHz		15 29)
— in the band 235 - 401 MHz		7 29)
— in the band 401 - 470 MHz		5 29)
3. Mobile Stations:		
a) Ship Stations and Survival Craft Stations:		
— in the band 156 - 174 MHz	20-27-10	10
- outside the band 156 - 174 MHz	50 30) 31)	50 <i>31)</i>
		, ,
b) Aircraft Stations	50	30 28)
c) Land Mobile Stations:		
— power 5 W or less	50	
— power above 5 W	20	

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AP7-6

1	2	3
— in the band 100 - 235 MHz		15 29)
— in the band 235 - 401 MHz		7 29) 32)
— in the band 401 - 470 MHz		5 29) 32)
4. Radiodetermination Stations	50 <i>30) 33)</i>	50 33)
5. Broadcasting Stations (other than television)	20	2 000 Hz 23)
6. Broadcasting Stations (television sound and vision):		500 Hz 24) 25)
- power 100 W or less	100 1 000 Hz	
— power above 100 W		
7. Space Stations		20
8. Earth Stations		20
Band: 470 MHz to 2 450 MHz 1. Fixed Stations:		
- power 100 W or less	300 34)	180
- power above 100 W	100 35)	50
2. Land Stations	300	20 36)
3. Mobile Stations	300	20 36)
4. Radiodetermination Stations	500 33)	500 <i>33)</i>
5. Broadcasting Stations (other than television)	100	100
6. Broadcasting Stations (television sound and vision)		
in the band 470 MHz to 960 MHz:		500 Hz 24) 25)
— power 100 W or less	100	
— power above 100 W	1 000 Hz	
7. Space Stations		20
8. Earth Stations		20

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Notes in the Table of Transmitter Frequency Tolerances

MOD 1) For coast station transmitters used for direct-printing telegraphy or for data transmission, the tolerance is 15 Hz for frequency shift keying and 5 Hz for narrow-band phase-shift keying.

MOD

2) For coast station transmitters used for digital selective calling the tolerance is 10 Hz. This tolerance applies to transmitters installed after [] and to all transmitters after [].

- MOD 3) For ship station transmitters used for direct-printing telegraphy or for data transmission, the tolerance is 40 Hz, <u>for</u> <u>frequency shift-keying and 5 Hz</u> This tolerance is applicable to equipment installed after 1 January 1976 and to all equipment. after 1 January 1985. For equipment installed before 2 January 1976 the toleance is 100 Hz (with a maximum deviation of 40 Hz for short periods of the order of 15 minutes) for narrowband phase-shift keying.
- MOD 4) For ship station transmitters used for digital selective calling the tolerance is 10 Hz. This tolerance applies to transmitters installed after [] and to all transmitters after [].
- NOC 5) to 10)
- MOD
- 11) For ship station single-sideband radiotelephone transmitters the tolerance is:
 - a) in the band 1 606.5 (1 605 Region 2) [2 065 in <u>Regions 2 and 3]</u> - 4 000 kHz;

- 100 Hz for transmitters in use or to be installed before 2 January 1982;

- 50 Hz for transmitters installed after 1 January 1982, but before 1 January 1985;
- b) in the band 4 000 23 000 [26 175] kHz;
 - 100 Hz for transmitters in use before 2 January 1978;
 - 50 Hz for transmitters installed after 1 January 1978.

[(See also Appendix 17.)]

NOC 12) to 26)

SUP 27)

NOC 28) to 36).

Document DT/10-E 16 September 1987 Original English

WORKING GROUP 4-A

DRAFT

FIRST REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

1. At its first meeting, held on 15 September 1987, Working Group 4-A unanimously approved the following proposals concerning Article 8:

- 1.1 to modify RR405;
- 1.2 to modify the Table (band 200 285 kHz, R2);
- 1.3 to modify the Table (bands 130 148.5 kHz and 148.5 255 kHz, R1) and RR458;
- 1.4 to modify the Table (band 283.5 315 kHz and ADD RR466A);
- 1.5 to SUP RR473.

The approved modifications are contained in Annex 1 to this report.

2. Working Group 4-A is faced with the problems of allocation of documents (namely Documents 41, 51, 56, 65-69 and 78-84) which are not allocated to Committee 4. Some delegations felt that these documents are also relevant for Working Group 4-A.

2.1 With respect to the documents which are allocated to the Technical Working Group of the Plenary (Documents 56, 65-69 and 78-84), Working Group 4-A was of the opinion that their eventual consideration in Working Group 4-A should be done after the Working Group of the Plenary takes a position on them. In this connection a draft note to the Chairman of the Technical Working Group of the Plenary is being envisaged and is contained in Annex 2 to this report.

2.2 With respect to Documents 41 and 51, which are not allocated to any body of the Conference, Working Group 4-A felt that they may also be considered as information papers for the work of Working Group 4-A, but since they contain technical matters too, an opinion from the Technical Working Group of the Plenary would also be appreciated.

2.3 The attention of Working Group 4-A has also been drawn to the comments of the IFRB (Document 4) and particularly to paragraph 2.2.2. In order to take a position concerning this particular comment and, if necessary, to propose an appropriate modification of RR466, Working Group 4-A would appreciate comments from the Technical Working Group of the Plenary on this subject.

> J. KARJALAINEN Chairman of Working Group 4-A

Annexes: 2

ANNEX 1

Modifications to Article 8

MOD 405

§ 5. The "European Maritime Area" is bounded on the north by a line extending along parallel 72° North from its intersection with meridian 55° East of Greenwich to its intersection with meridian 5° West, then along meridian 5° West to its intersection with parallel 67° North, thence along parallel 67° North to its intersection with meridian $\frac{30^{\circ}}{32^{\circ}}$ West; on the west by a line extending along meridian $\frac{30^{\circ}}{32^{\circ}}$ West to its intersection with parallel 30° North; (the remainder of the text is unchanged).

kHz 130 - 283.5

	Allocation to Services			
Region 1	Region 2	Region 3		
130 - 148.5	130 - 160 (NOC)	130 - 160 (NOC)		
MARITIME MOBILE	FIXED	FIXED		
/FIXED/	MARITIME MOBILE	MARITIME MOBILE		
454 457 458		RADIONAVIGATION		
148.5 - 255	454	454		
BROADCASTING	160 - 190 (NOC)	160 - 190 (NOC)		
BROADCASTING	FIXED	FIXED		
	459	Aeronautical Radionavigation		
	190 - 200 (NOC)			
458 460 461 462	AERONAUTICAL	RADIONAVIGATION		
255 - 283.5	200 - 285 <u>275</u>	200 - 285 (NOC)		
BROADCASTING	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		
/AERONAUTICAL RADIONAVIGATION/	Aeronautical Mobile	Aeronautical Mobile		
463	<u>257</u> - 285			
	AERONAUTICAL RADIONAVIGATION			
	Aeronautical mobile			
458 462 464	<u>Maritime</u> <u>radionavigation</u> <u>(radiobeacons)</u>			

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In Region 1, the change of the band limits from 150 kHz and 285 kHz to 148.5 kHz and 283.5 kHz respectively shall take place on 1 February 1986 for the lower limit and 1 February 1990 for the upper limit. (See Resolution No. 500.)

Allocation to Services			
Region 1	Region 2	Region 3	
283.5 - 315 MARITIME RADIONAVIGATION	285 - 315 (NOC)		
(radiobeacons) 466 /AERONAUTICAL RADIONAVIGATION/	MARITIME RADI (radiobeacor		
458 465 <u>466A</u>			

466A

Additional Allocation: The frequency band

285.3 - 285.7 kHz is also allocated to the maritime

radionavigation service (other than radiobeacons) on a permitted basis.

kHz			
415	-	1606.5	

505 - 526.5		
MARITIME MOBILE 470		
/AERONAUTICAL RADIONAVIGATION/ 473	,	
465 471 474 475 476	525 - 535	
526.5 - 1 606.5	BROADCASTING 477	526.5 - 535
BROADCASTING		BROADCASTING
	RADIONAVIGATION	Mobile
		479
	535 - 1 605	535 - 1 606.5
478	BROADCASTING	BROADCASTING
··· -		

458

- 4 -MOB-87/DT/10-E

ANNEX 2

Draft note from the Chairman of Committee 4 to the Chairman of the Technical Working Group of the Plenary

1. Committee 4 is considering the proposals relating to the modification of the Table of Frequency Allocations. Some proposals are relating to technical matters, which are within the terms of reference of the Technical Working Group of the Plenary. In this connection, particular mention is made to Documents 56, 65-69 and 78-84, which are allocated to the Technical Working Group of the Plenary.

The Technical Working Group of the Plenary is, therefore, requested to advise Committee 4 on the matters treated in the above documents, as well as in Documents 41 and 51, which are relevant for frequency allocation and frequency use, as soon as possible.

2. The Technical Working Group of the Plenary is also asked to give its opinion on the comments of the IFRB (Document 4) and particularly to paragraph 2.2.2.

Document DT/11-E 17 September 1987 Original: English

WORKING GROUP 5-A

DRAFT

FIRST REPORT BY WORKING GROUP 5-A TO COMMITTEE 5

1. Working Group 5-A has held three meetings (15, 16 and 17 September 1987).

2. The Working Group approved the title of Chapter N IX and Article N 37 (provisions N 2929-N 2943 inclusive) as contained in the <u>annex</u>.

3. The question of a reference to IMO's role in the development of the GMDSS is referred to in Committee 5.

4. Advice is requested from Committee 5 on whether to retain a reference to Nos. 347 and 348 or one to N 2939 in N 2930, N 2931A and N 2942.

5. N 2932, N 2933 and N 2934 are kept in square brackets pending directives from Committee 5.

6. With respect to N 2934A a majority was in favour of the text in DT/1B. However, three administrations preferred placing the provision in square brackets and seeking advice, through the Chairman of Committee 5, from the other competent committees.

7. With respect to N 2939, the Editorial Committee is requested to note the new location of the provision.

8. With respect to N 2942, a compromise was reached that the text as contained in DT/1B would be retained but that in Article N 38 the use of frequencies would be specified.

9. A Drafting Group with the representative of Japan as convenor and including representatives from the Federal Republic of Germany (for CEPT), Spain, Canada and Brazil, was established to draft a text for N 2943.

U. HAMMERSCHMIDT Chairman of Working Group 5-A

Annex: 1

DT/1B

ANNEX

CHAPTER N IX

J/60/142 Distress and Safety Communications¹ for the GMDSS ADD For the purpose of this Chapter, distress and J/60/142A 1 safety communications include distress, urgency and safety calls and messages. ADD ARTICLE N 37 DT/1B**General Provisions** ADD CEPT-8/15/78 ADD N 2929 This Chapter contains the provisions for the operational use of the Global Maritime Distress and Safety System (GMDSS). ADD N 2930 The provisions specified in this Chapter are obligatory (see Resolution No. A) in the maritime mobile service for all stations using the frequencies and techniques prescribed for the functions set out herein. [(See also No. N 2939.)] Certain DT/1Bprovisions of this Chapter are also applicable to the aeronautical mobile service except in the case of special arrangements between the governments concerned. However, stations of the maritime mobile service, when additionally fitted with equipment used by stations operating in conformity with the provisions specified in Chapter IX, shall, when using that equipment, comply with the appropriate provisions of that Chapter. [See Nos. 347 and 348.] ADD N 2931 The procedure specified in this Chapter is obligatory in the maritime mobile-satellite service and for communications between stations on board aircraft and stations of the DT/1B maritime mobile-satellite service, where this service or stations of this service are specifically mentioned. ADD N 2939 The International Convention for the Safety of Life at Sea prescribes which ships and which of their survival craft shall be fitted provided with radio equipment and which ships shall carry portable radio equipment for use in survival craft. It also DT/1Bprescribes the requirements which shall be complied with by such installations equipment. CAN/25/21 ADD N 2931A Stations of the land mobile service in uninhabited and remote areas may, for distress and safety purposes, avail themselves of the frequencies provided for automated in this Chapter. communications for-distress-and safety- [(See Resolution No. 203 (Rev. MOB 87) and No. 347.)]

- 3 -MOB-87/DT/11-E

CAN/25/22 ADD N 2931B The procedure specified in this Chapter is obligatory for stations of the land mobile service when they use frequencies provided in these Regulations for automated communications for distress and safety. CEPT-8/15/81 ADD N 2932 No provision of these Regulations prevents the use by \overline{a} mobile station or a mobile earth station in distress of any means at its disposal to attract attention, make known its position, and obtain help. CEPT-8/15/82 ADD N 2933 No provision of these Regulations prevents the use by stations on board aircraft or ships engaged in search and rescue operations, in exceptional circumstances, of any means at their disposal to assist a mobile station or a mobile earth station in distress. CEPT-8/15/83 ADD N 2934 No provision of these Regulations prevents the use by a land station or coast earth station, in exceptional circumstances, of any means at its disposal to assist a mobile station or a mobile earth station in distress (see also No. 959). ADD N 2934A When special circumstances make it indispensable to do so, an administration may, as an exception to the methods of working provided for by these Regulations, authorize ship earth station installations located at Rescue Coordination Centres¹ to DT/1Bcommunicate with other stations using bands allocated to the maritime mobile-satellite service, for distress and safety purposes. J/60/148 ¹The term "Rescue Coordination Centre" refers to a unit ADD N 2934A.1 responsible for promoting efficient organization of search and rescue services and for coordinating the conduct of search and rescue operations within a search and rescue region, as defined in the International Convention on Maritime Search and Rescue, 1979. ADD N 2935 Transmissions by radiotelephony shall be made slowly DT/1B and distinctly, each word being clearly pronounced to facilitate transcription. ADD N 2937A Distress, urgency and safety transmissions may also DT/1Bbe made, using Morse telegraphy and radiotelephony techniques, in accordance with the provisions of Chapter IX and relevant CCIR Recommendations.

- 4 -MOB-87/DT/11-E

USA/24/203 *ADD N 2938 The abbreviations and signals of Appendix 14_{τ} and the Phonetic Alphabet and Figure Code in Appendix 24 and the Standard-Marine-Navigational Wocabulary should be used where applicable 1. and, where language difficulties exist, the use of the International-Code of signals also is recommended. ¹ The use of the standard marine vocabulary, where language difficulties exist, the international code of signals, both published by IMO, is also recommended. Mobile stations¹ of the maritime mobile service may ADD N 2942 communicate, for safety purposes, with stations of the aeronautical mobile service. Such communications shall normally be DT/1Bmade on the frequencies authorized, and under the conditions specified, in Section I of Article N 38 [(see also No. N 2932).] [(See also Nos. 347 and 348).] ADD N 2942.1 ¹ Mobile stations communicating with the stations of the aeronautical mobile (R) service in bands allocated to the aeronautical mobile (R) service shall conform to the provisions of the Regulations which relate to that service and as DT/1B appropriate any special arrangements between the governments concerned by which the aeronautical mobile (R) service is regulated. N 2942A ADD Mobile stations of the aeronautical mobile service may communicate, for safety purposes, with stations of the DT/1B maritime mobile service. J/60/156 ADD N 2942A 10. Mobile stations of the aeronautical mobile service may communicate with stations of the maritime mobile service for distress and safety purposes in conformity with the provisions of this Chapter. ADD N 2943 Any aircraft required by national or international regulations to communicate for distress, urgency or safety purposes with stations of the maritime mobile service that comply DT/1B with the provisions of this Chapter, shall be capable of transmitting class J3E or H3E and receiving class J3E emissions when using the carrier frequency 2 182 kHz, or class J3E emissions when using the carrier frequency 4 125 kHz, or class G3E emissions when using the frequency 156.8 MHz.



Document DT/12-E 17 September 1987 Original: English

WORKING GROUP 6-A

DRAFT

REPORT OF THE CHAIRMAN OF THE DRAFTING GROUP OF WORKING GROUP 6-A TO THE CHAIRMAN OF WORKING GROUP 6-A

Attached are the consolidated proposals from Administrations relating to Article 66.

M.E. EDWARDS Chairman of Drafting Group 6-A

Attachment: 1

- 2 -MOB-87/DT/12-E

ATTACHMENT

CONSOLIDATED PROPOSALS CONCERNING ARTICLE 66

ARTICLE 66

MOD	Public	Correspond	lence in	the Ma	ritime	Mobile	Service
	and the	e Maritime	Mobile-S	Gatelli	te Serv	ice 1,	2

NOC A.66 1 See Resolution 201

ADD 2 See Resolution (...).

Section II. Accounting Authority

MOD 5086 2. Charges for radiocommunications maritime <u>telecommunications</u> from ship to shore shall, in principle, and subject to national law and practice, be collected from the maritime mobile station licensee:

NOC 5087 to 5091

SUP 5092

SUP 5093

MOD 5093 6. The accounts shall be sent as promptly as possible but in any case before the end of the third month following that to which they relate. They shall be sent by the most expeditious means and the covering invoice shall be identified by a unique number.

NOC 5094 to 5095

MOD 5095 However, any accounting authority shall have the right to question the contents of an acccount for a period of six months after dispatch of the account, even if the account has been paid.

NOC 5096

- 3 -MOB-87/DT/12-E

MOD 5096 9. All radiomaritime maritime telecommunications accounts shall be paid by the accounting authority without delay and in any case within [six] [four] months after dispatch of the account.

NOC 5097

MOD 5097 10. If international radiomaritime maritime telecommunication accounts remain unpaid after [six] [four] months, the administration that has licensed the mobile station shall, on request, take all possible steps, within the limits of applicable national law, to ensure settlement of the accounts of the licensee.

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NOC 5098

- MOD 5098 In the case referred to in No: 5095; if the account is seriously delayed in transit, <u>If the period between the</u> <u>date of dispatch and receipt exceeds 21 days then</u> the receiving accounting authority should at once notify the originating administration (or recognized private operating agency) that queries and payment may be delayed. The delay shall; however, not exceed three months from the date of receipt of the account.
- MOD 5098 11. In the case referred to in No. 5095, if the account is seriously delayed in transit <u>period between the date of</u> <u>dispatch and receipt exceeds 21 days</u>, the receiving accounting authority should at once notify the originating administration (or recognized private operating agency) that queries and <u>three calendar months in respect of payment</u>, or five calendar <u>months in respect of queries</u>, both periods commencing from the date of receipt of the account.
- MOD 5099.12. The debtor accounting authority may refuse the settlement and adjustment of accounts presented more than eighteen months after the date of handing in of the radiotelegrams; or the date of establishment of the radiotelephone ealls or radiotelex ealls the traffic to which the accounts relate.

- 4 -MOB-87/DT/12-E

SUP Section IV. Payment of Balances

Section V. Archives

SUP 5101 to 5102

ADD

SUP

DRAFT RESOLUTION $\underline{/} \dots \underline{/}$

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Relating to the Inclusion in the Regulations to be adopted by the WATTC-88 of Provisions Concerning Charging and Accounting for Public Correspondence in the Maritime Mobile Service and the Maritime Mobile-Satellite Service and Consequential Modifications to Article 66 of the Radio Regulations

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

recognizing

that it is expected that provisions concerning charging and accounting for public correspondence in the maritime mobile service and the maritime mobile-satellite service may be included in the Regulations to be adopted by the WATTC-1988;

considering

that if such provisions are included in these Regulations it will not be necessary to retain similar provisions in the Radio Regulations;

e e generalise

noting

that the Regulations, if adopted, will enter into force after the revision of the Radio Regulations by this Conference;

resolves

1. that if the provisions of Article 66 of the Radio Regulations are contained in the Regulations to be adopted by the WATTC-88 when the latter enter into force, the provisions of Article 66 of the Radio Regulations should be replaced by the following:

"ARTICLE 66

Charging and Accounting for Public Correspondence in the Maritime Mobile Service and the Maritime Mobile-Satellite Service

The provisions of the Regulations adopted by the WATTC-88, taking into account the relevant CCITT Recommendations, shall apply."

2. that in any interim period between the entry into force of the Final Acts of this Conference and the entry into force of the new Regulations containing modified provisions concerning charging and accounting for public correspondence in the maritime mobile and maritime mobile-satellite services, administrations and recognized private operating agencies shall continue to apply the provisions of Article 66 of the Radio Regulations as modified by this Conference;

3. that if the special provisions concerning charging and accounting in the maritime mobile and maritime mobile-satellite services are not to be included in the new Regulations adopted by the WATTC-88, the provisions of Article 66 of the Radio Regulations, as modified by this Conference, shall continue to apply;

4.that a future competent conference be invited to review this Resolution;

invites the Administrative Council

to place this Resolution on the agenda of the next competent conference.

INTERNATIONAL TELECOMMUNICATION UNION

NICHNATIONAL TELECOMMENT WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/13-E 18 September 1987 Original: English

TECHNICAL WORKING GROUP PLENARY

Draft

SECOND REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary considered all proposals concerning Appendices 17 and 36 to the Radio Regulations and adopted the modifications contained in Annexes I and II.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annexes: 2

- 2 -MOB-87/DT/13-E

ANNEX 1

APPENDIX 17

Technical Characteristics of Single-Sideband Transmitters Used in the Maritime Mobile Service for Radiotelephony in the Bands Between 1 606.5 kHz (1 625 kHz Region 2) and 4 000 kHz and Between 4 000 kHz and 27 500 kHz

(See Article 60, Section IV)

1. Power of the carrier:

MOD a) The power of the carrier for class R3E emissions in the bands between 1 606.5 kHz (1 605 kHz Region 2) and 4 000 kHz shall be: 18 + 2 dB below the peak envelope power.

 \underline{Note} - Class R3E emissions are not permitted in the bands between 4 000 kHz and [23 000] [27 500] (see RR No. 4371).

NOC

b)

4. The carrier frequencies shall be maintained within the tolerances specified in Appendix 7.

NOC 5

6. When class H3E, R3E or J3E emissions are used, the power of any unwanted emission supplied to the antenna transmission line on any discrete frequency shall, when the transmitter is driven to full peak envelope power, be in accordance with the following table for transmitters installed after 1 January 1982.

Separation Δ in kHz between the frequency of the unwanted emission ¹ and the assigned frequency ⁴	Minimum attenuation below peak envelope power
$1.6 < \Delta \leq 4.8$	28 dB
$4.8 < \Delta \leq 8$	38 dB
8 < Δ	43 dB without exceeding the power of 50 mW

NOC 2 and 3

- 3 -MOB-87/DT/13-E

Transmitters using reduced carrier or suppressed carrier emission may, as far as concerns out-of-band emissions² and those spurious emissions³ which are a result of the modulation process but do not fall in the spectrum of out-of-band emissions², be tested for compliance with this regulation by means of a two-tone-audio input signal with a frequency separation between the tones such that all intermodulation products occur at frequencies at least 1.5 kHz removed from the assigned frequency⁴.

- 1 Unwanted emission: See Article 1, No. 140.
- ² Out-of-band emission: See Article 1, No. 138.
- ³ Spurious emission: See Article 1, No. 139.
- ⁴ The assigned frequency is 1 400 Hz higher than the carrier frequency see Article 60, No. 4325.

ANNEX 2

APPENDIX 36

Automatic Receiving Equipment for Radiotelegraph and Radiotelephone Alarm Signals

NOC 1. a) to d)

MOD e) The equipment should, as far as practicable, give warning of any faults that would prevent the apparatus from performing its normal functions during watch hours.

NOC 2.

NOB-87 WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

Document DT/14-E 18 September 1987 Original: English

COMMITTEE 4

NOTE FROM THE CHAIRMAN OF COMMITTEE 4

In an attempt to establish the meaning of the term "minimal effect" used in the agenda for the Conference, it will be evident that Committee 4 and its Working Groups dealing with Article 8 will need one or more general rules. The following are put forward for discussion:

- The Conference may not remove or reduce the status of any 1. existing allocation to a service not included in the agenda for the Conference.
- 2. The Conference may not introduce a new allocation which would restrict the future use of a band already allocated to a service which is not included in the agenda for the Conference.

O. VILLANYI Chairman of Committee 4



INTERNATIONAL TELECOMMUNICATION UNION WOB-87 WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/15-E 18 September 1987 Original: English

COMMITTEE 4

NOTE BY THE SECRETARY-GENERAL

The Administrative Council at its 40th Session (July 1985) considering the scope of the agenda for the WARC MOB-87, discussed various possible solutions as contained in Document CA40/DT/18 which is reproduced in Annex.

Administrative Council adopted the Option 2 (Broad approach) as proposed on page 2 of the Document CA40/DT/18 with two editorial amendments.

- 1) replace the word "encroachment" with <u>"effect";</u>
- delete fullstop and continue the last sentence with <u>"taking into</u> 2) account the following list of items".

The adopted text read as follows:

<u>'resolves l'</u>: To review, and revise as necessary, the provisions of the Radio Regulations for the mobile services, the mobile-satellite services and the radionavigation and radiodetermination-satellite services with only minimum <u>effect</u> on the radiocommunication services not included in this agenda taking into account the following list of items.

It is up to the present Conference to interpret its agenda including the scope of "minimum effect".

However, the Administrative Council Document CA40/DT/18 as reproduced, in Annex provides some background information which may assist the Conference in consideration of this matter.

> R.E. BUTLER Secretary-General

Annex: 1

ANNEX

ADMINISTRATIVE COUNCIL

Document DT/18-E 9 July 1985 Original : English

40th SESSION - GENEVA - JULY 1985

WORKING GROUP PL-B

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Note by the Chairman

SCOPE OF THE AGENDA FOR THE WORLD ADMINISTRATIVE RADIO CONFERENCE FOR MOBILE SERVICES

1. Following discussions at the third and fourth meetings of Working Group PL/B, it is evident that there is no consensus on which of the various suggested statements should be recommended for the scope of the WARC. The particular areas of concern are 'resolves 1', Articles 8 and 35, and consideration of incompatibility between aeronautical and broadcasting services in the bands around 108 MHz.

2. This document has been prepared for the purpose of summarizing the situation and to identify, as clearly as possible, the various major alternatives open to the Group. In preparing this material, I have consulted with most, if not all, of the administrations that spoke on the subject in meetings of the Working Group.

3. The following are the major items of concern which have been raised :

- a) The extent to which the radiodetermination service should be dealt with. No opposition to dealing with the radionavigation services has been voiced. On the other hand, there has been no support raised for including the radiolocation service, although it has been noted that there may be a need to make radiodetermination provisions for homing in the Future Global Maritime Distress and Safety System (FGMDSS).
- b) Whether revisions to the selected portions of the Regulations (other than Article 8) are to have no adverse effect on services not specifically included in the WARC's agenda or to have only a minimum effect.
- c) Whether revisions to Article 8 are to have no adverse effect on specific services not included in the WARC's agenda or to have only a minimum effect. (The option here could be the same or different from that selected for b) above).

- 2 -CA40/DT/18-E

POSSIBLE SOLUTIONS

4. With regard to Article 35, it is suggested that removal of the brackets on the clause associated with item 1.10, and the retention of the clause, provides adequate opportunity for Administrations to make proposals in this area. Further, the proposed 'resolves 1' (dealing specifically with the FGMDSS) and 'resolves 6' (dealing with consequential changes to the regulations), appear to provide an adequate mandate for proposing any changes thought to be required on this subject in other parts of the Regulations.

5. With regard to the other areas of concern, the following three options are put forward for consideration by the Working Group in the hope that one of them can be recommended to Council. (The numbering and order of presentation is not intended to imply any preference or precedence).

OPTION 1 (Narrow approach)

<u>resolves 1</u>: To review, and revise as necessary, the provisions of the Radio Regulations for the mobile services, the mobile-satellite services and the radionavigation and radiodetermination-satellite services without encroaching upon the radiocommunication services not included in this agenda.

'resolves 2.1' : Article 8 : Frequency Allocations

OPTION 2 (Broad approach)

<u>resolves 1</u>: To review, and revise as necessary, the provisions of the Radio Regulations for the mobile services, the mobile-satellite services and the radionavigation and radiodetermination-satellite services with only minimum encroachment on the radiocommunication services not included in this agenda.

resolves 2.1 : Article 8 : Frequency Ailocations

(It is suggested that specific items regarding the aeronautical and broadcasting services incompatibility item, the shared bands at 4000 - 4063 kHz and 8100 - 8195 kHz, and the radiodetermination-satellite service would not be needed with the above 'resolves' if, in each case, there is to be only minimum encroachment on the services not included in the agenda).

OPTION 3 (Narrow approach for Article 8, broad approach for remainder)

<u>resolves 1</u>: To review, and revise as necessary, the provisions of the Radio Regulations for the mobile services, the mobile-satellite service and the radionavigation and radiodetermination-satellite services with minimum encroachment, except in Article 8, on the radiocommunication services not included in this agenda.

<u>resolves 1.2</u>: Article 8 : Frequency Allocations, but with no encroachment, except in the case of the Radiodetermination-Satellite Service, on the radiocommunication services not included in this agenda.

J.W. EGAN Chairman PL/B

WORKING GROUP 4C

DRAFT

BASIC PRINCIPLES FOR REVISING APPENDIX 31(REV.1)

- 1. To revise Appendix 31 on the basis of 3 kHz channel spacing for radiotelephony, the carrier frequencies being integer multiples of 1 kHz.
- 2. To include in Appendix 31 the bands referred to in RR532 and RR544.
- 3. To increase the number of paired frequencies for duplex operations:
 - a) for SSB radiotelephony,
 - for NBDP. b)

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- 4. To provide a maximum possible spacing between transmitting frequencies of ship and coast stations for duplex operations (telephony and NBDP).
- 5. To increase the number of channels for simplex radiotelephony.
- 6. To reduce the number of working frequencies for AlA and AlB Morse telegraphy.
- 7. The number of Morse calling frequencies should be proportional to the number of working frequencies in the exclusive sub-bands for AlA, AlB Morse telegraphy.
- 8. The basic format of Appendix 34 and Resolution No. 312 shall be maintained.
- To increase the number of frequencies for NBDP (non-paired) and to 9. permit these channels to be used by ship stations for AlA and AlB Morse telegraphy.
- 10. To maintain unchanged to the maximum extent practicable the distress frequencies allocated in the GMDSS for DSC, NBDP and SSB radiotelephony.
- 11. To increase the number of channels for ship stations for wide-band telegraphy, facsimile and special transmissions systems.
- 12. To maintain the amount of spectrum available in the present Appendix 31 for coast stations for all types of telegraphy.
- 13. To maintain, if required, the sub-bands for oceanographic data transmissions.
- 14. Not to provide for guard bands around the GMDSS frequencies.

15. Not to maintain harmonic relationship between the calling frequencies for AlA and AlB Morse telegraphy. 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.

- 2 -MOB-87/DT/16-E

- 16. To maintain or increase the number of channels for DSC.
- 17. Not to provide DSC channels for national use.
- 18. Only to allow radiotelephony, automated telegraphy and DSC in the bands 18 780 18 900 kHz and 19 680 19 800 kHz.
- 19. To permit the ship stations frequencies of the new NBDP (paired) channels to be used for ship stations AlA Morse telegraphy working provided it is technically feasible.
- 20. To provide for contiguous sub-bands if practicable for each type of transmission.
- 21. The revision of Appendix 31 should not have an adverse impact on the operations carried out in the sub-bands which may be decreased.
- 22. Not to include the shared bands 4 000 4 063 kHz and 8 100 - 8 195 kHz in the new Appendix 31.

Consideration should also be given to the following items:

- i) Sequence of sub-bands.
- ii) Spacing between the various sub-bands.
- iii) Channelling for the various types of telegraphy.
- iv) Possible merging of Appendices 16, 32, 33, 34 and 35 into a revised appendix.
- v) The use of the sub-bands for NBDP (non paired) also for coast stations.
- [vi) To provide for frequencies for the promulgation of maritime safety information.]
- [vii) To provide for one frequency in the 4 MHz band for NAVTEX type of emission.]
- [viii) To provide for an exclusive frequency in the 8 MHz band for distress and safety traffic by radiotelephony.]

A.R. VISSER Chairman of Sub-Working Group 4C/1



INTERNATIONAL TELECOMMUNICATION UNION

Document DT/17(Rev.1)-E 24 September 1987 Original: English/ French/ Spanish

WORKING GROUP 4-C

NOTE BY THE CHAIRMAN OF WORKING GROUP 4-C

In order to assist Working Group 4-C, attached is a revised document containing comparison of different proposals concerning Appendix 31.

> A.R. VISSER Chairman of Working Group 4-C

Annex: 1

- 2 - MOB-87/DT/17(Rev.1)-F/E/S

Annexe / Annex / Anexo

,

Stations côtières et stations de navire, téléphonie, exploitation duplex (voies à deux fréquences)

Coast and Ship stations, telephony, duplex operation (two-frequency channels)

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Estaciones costeras y estaciones de barco, telefonía en duplex (canales de dos frecuencias)

							·	
	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	26	30	32	28	29	28	29	30
6 MHz	6	13	9	7	5	10	10	7
8 MHz	31	39/40	38	32	36	39	32	35
12 MHz	32	55	44	45	35	54	55	38
16 MHz	41	64	58	54	45	71	60	50
18 MHz	-	14	18	10	13	18	16	13
22 MHz	40	50	57	55	44	51	60	50
26 MHz	-	6	15	10	13	11	18	13

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Voies / Channels /Canales

and to a

Stations de navire et stations côtières, téléphonie, exploitation simplex (voies à une fréquence) et exploitation à bandes croisées entre navires (deux fréquences) (RR 4199)

Ship stations and coast stations, telephony, simplex operation (single-frequency channels) and intership cross-band operation (two frequencies) (RR 4199)

Estaciones de barco y estaciones costeras, telefonía en simplex (canales de una frecuencia) y comunicaciones entre barcos en bandas cruzadas (dos frecuencias) (RR 4199)

		.*						
• •	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	1	2	2 + 2	2	4	4	1	6
6 MHz	2	2	3	3	6	3	2	3
8 MHz	2	3	4 + 6	2	4	3	1	3
12 MHz	3	3	5	10	8	6	3	10
16 MHz	3	5	8	10	10	8	3	10
18 MHz		2	8	4	5	8	2	5
22 MHz	5	5	. 9	6	6	9	4	6
26 MHz	-	3	10	5	8	10	4	8

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Stations de navire, télégraphie à large bande, fac-similé et systèmes spéciaux de transmission (RR 4200) [voies]

Ship stations, wideband telegraphy, facsimile and special transmission systems (RR 4200) [channels]

Estaciones de barco, telegrafía de banda ancha, facsímil y sistemas especiales de transmisión (RR 4200) [canales]

	RR	CEPT	USA	CAN	URS	B	J	IND
4 MHz	5	5	5 + 3	5	6	5	5	7
6 MHz	7	7	7	7	7	6	.7	7
8 MHz	10	10	10 + 3	10	12	10	11	12
12 MHz	12	12	15	14	15	15	14	15
16 MHz	15	15	19	20	17	20	24	17
18 MHz	-	6	7	6	7	7	8	7
22 MHz	12	12	15	18	15	15	18	15
26 MHz	-	12	13	6	8	13	12	

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Stations de navire, transmission de données océanographiques (RR 4201) [voies]

Ship stations, oceanographic data transmission (RR 4201) [channels] Estaciones de barco, transmisión de datos oceanográficos (RR 4201) [canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	10	10	10	10	10	1	-	10
6 MHz	10	10		10	10	1	-	10
8 MHz	10	10	10	10	10	2	-	10
12 MHz	10	10	10	10	10	3	-	10
16 MHz	10	10	10	10	10	4	-	10
18 MHz	-	-	-	10	•	-	-	-
22 MHz	10	10	10	10	10	10	-	10
26 MHz	10	-	-	10	-	-	-	-

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- 6 -MOB-87/DT/17(Rev.1)-F/E/S

Stations de navire, systèmes de télégraphie à impression directe à bande étroite et de transmission de données (fréquences non appariées) (RR 4203) [voies]

Ship stations, narrow-band direct-printing telegraph and data transmission systems (non-paired frequencies) (RR 4203) [channels]

Estaciones de barco, sistemas de telegrafía de impresión directa de banda estrecha y de transmisión de datos (frecuencias no asociadas por pares) (RR 4203) [canales]

	RR	CEPT	USA *	CAN	URS **	В	J	IND
4 MHz	5	9	5 + 22	7	25	-5	8	6
6 MHz	4	6	3	8	52	3	. 6	4
8 MHz	6	7	6 + 41	6	70	6	8	71
12 MHz	14	10	14	.20	113	14	32	95
16 MHz	22	12	22	19	145	22	35	145
18 MHz	-		11	5	41	11	18	41
22 MHz	2	12	19	12	80	6	36	80
26 MHz	-	13	9	15	55	10	-	55

* Ces fréquences peuvent être également utilisées par les stations côtières.

* These frequencies may also be used by coast stations.

* Estas frecuencias pueden también ser utilizadas por las estaciones costeras.

- ** Ces fréquences peuvent être également utilisées pour la télégraphie Morse AlA et AlB (fréquences de travail) par les stations de navire.
- ** These frequencies may also be used for AlA and AlB Morse telegraphy (working frequencies) by ship stations.
- ** Estas frecuencias pueden también ser utilizadas en la telegrafía Morse AlA y AlB (en frecuencias de trabajo), por las estaciones de barco.

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Stations côtières, télégraphie Morse AlA et télégraphie à large bande, fac-similé, systèmes spéciaux de transmission, transmission de données et télégraphie à impression directe (RR 4209); kHz

Coast stations, wideband and All Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraph systems (RR 4209); kHz

Estaciones costeras, telegrafía Morse All y telegrafía de banda ancha, facsímil, sistemas especiales de transmisión, sistemas de transmisión de datos y sistemas de telegrafía de impresión directa (RR 4209); kHz

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	130	94.75	130	122	130	130	120.5	130
6 MHz	168.5	121.75	168	166	168.5	168.5	143.75	168
8 MHz	269	199.75	269	266	269	269	296.75	269
12 MHz	418.5	308.75	418	416.5	418.5	418.5	399.75	418
16 MHz	337.5	273.25	337	391	337.5	337.5	390.25	337
18 MHz	-	30	57.5	69.25	64	57.5	47.5	64
22 MHz	250.5	299.25	250	249	250.5	250.5	227.5	250
26 MHz	-	11.25	21.5	73	19	21.5	11.75	19

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Stations de navire, télégraphie Morse AlA, fréquences d'appel (RR 4204)

Ship stations, AlA Morse telegraphy, calling frequencies (RR 4204)

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Estaciones de barco, telegrafía Morse AlA, frecuencias de llamada (RR 4204)

	RR	CEPT	USA	CAN	URS	В	J	IND
		k 9.25	5 k					
4 MHz	7.45 k	c 18		18 c	3 k	18 c	4.25 k	4 k
		k 9.25	5 k					
6 MHz	11.05 k	c 18		18 c	4 k	18 c	6.25 k	4 k
1.0		k 9.25	9 k					
8 MHz	14.65 k	c 18		18 c	7 k	18 c	8.25 k	7 k
		k 9.25	19 k					
12 MHz	22 k	ʻc 18		18 c	12 k	18 c	12.25 k	12 k
		k 9.25	25 k					
16 MHz	29 k	c 18		18 c	15 k	18 c	6.25 k	15 k
18 MHz	-	-	-	10 c	-	-	-	-
		k 5.25	17 k					
22 MHz	20 k	c 10		18 c	8 k	10 c	12.25 k	8 k
		k 1.75	-					
26 Mhz	6 k	с 3		6 c	-	3 с	6.25 k	-

k = kHz

c = voies/channels/canales

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Stations de navire, télégraphie AlA Morse, fréquences de travail (RR 4206) [Voies]

Ship stations, AlA Morse telegraphy, working frequencies (RR 4206) [Channels]

Estaciones de barco, telegrafía AlA Morse, frecuencias de trabajo (RR 4206) [Canales]

	ŔR	CEPT	USA	CAN	URS*	В	J	IND
4 MHz	62	42 ¹ /27 ² /12 ³	39/34	45	27	37	28	49
6 MHz	57 ·	46 ¹ /30 ² /15 ³	42/36	50	28	34	28	53
8 MHz	120	831/532/273	76/70	85	50	42	56	50
12 MHz	194	119 ¹ /76 ² /38 ³	173/135	146	65	121	84	55
16 MHz	234	156 ¹ /100 ² /51 ³	209/162	193	94	140	112	94
18 MHz	-	-	-	40	-	-	-	-
22 MHz	118	97 ¹ /63 ² /29 ³	106/82	90	45	233	99	46
26 MHz	-	19 ¹ /12 ² /7 ³	-	15	-	35	20	-

¹ Jusqu'au/until/hasta el 14.06.1993.

² Depuis le/as from/desde el 15.06.1993, et jusqu'au/and until/y hasta el 14.06.1997.

³ Depuis le/from/desde el 15.06.1997, aprés/onwards/y en adelante.

- * Les fréquences pour la télégraphie à IDBE (non appariées) peuvent être également utilisées pour la télégraphie Morse AlA (fréquences de travail) par les stations de navire.
- * The frequencies for NBDP (non-paired) telegraphy may also be used for A1A Morse telegraphy (working frequencies) by ship stations.

* Las frecuencias para telegrafía de IDBE (no asociadas por pares), pueden también ser utilizadas en la telegrafía Morse AlA (en frecuencias de trabajo) por las estaciones de barco. Stations côtières, systèmes à bande étroite de télégraphie à impression directe et de transmission de données (fréquences appariées) (RR 4207) [Voies]

Stations de navire, systèmes à bande étroite de télégraphie à impression directe et de transmission de données (fréquences appariées) (RR 4202) [Voies]

> Coast stations, narrow-band direct-printing telegraph and data transmission systems (paired frequences) (RR 4207) [Channels]

Ship stations, narrow-band direct-printing telegraph and data transmission systems (paired frequencies) (RR 4202) [Channels]

Estaciones costeras, sistema de banda estrecha de telegrafía de impresión directa y de transmisión de datos (frecuencias asociadas por pares) (RR 4207) [Canales]

Estaciones de barco, sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos (frecuencias asociadas por pares) (RR 4202) [[Canales]

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	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	14	27 ¹ /42 ² /57 ³	25 ⁴ /20 ¹	20	63	14	29	46
6 MHz	23	441/602/753	354/291	35	31	23 ,	53	50
8 MHz	27	63 ¹ /93 ² /119 ³	494/431	52	97	27	36	106
12 MHz	57	179 ¹ /222 ² /260 ³	1134/751	95	149	57	100	140
16 MHz	69	205 ¹ /261 ² /310 ³	1384/921	100	202	69	99 ¹	173
18 MHz	-	88	14	40	31	14	46	31
22 MHz	67	121 ¹ /155 ² /189 ³	1034/791	120	185	67	100	149
26 MHz	-	841/922/963	14	20	31	15	16	31

Immédiatement après l'entrée en vigueur des Actes finals de la MOB-87. Immediately after the entering into force of the Final Acts of WARC MOB-87. Inmediatamente después de la entrada en vigor de las Actas Finales de la CAMR MOB-87.

² Depuis le/from/desde el 15.06.1993.

³ Depuis le/from/desde el 15.06.1997.

⁴ Depuis le/from/desde el 01.02.1997.

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Stations côtières, fréquences d'appel sélectif numérique (RR 4208) [voies] Stations de navire, fréquences d'appel sélectif numérique (RR 4205) [voies] Coast stations, digital selective calling frequencies (RR 4208) [channels] Ship stations, digital selective calling frequencies (RR 4205) [channels]

Estaciones costeras, frecuencias de llamada selectiva digital (RR 4208) [canales]

Estaciones de barco, frecuencias de llamada selectiva digital (RR 4205) [canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	2	5	1	1/3	1	3	3	1
6 MHz	2	7	1	1/4	1	2	3	1
8 MHz	2	10	1/2	1/5	1	3	2	1
12 MHz	3	16	2	2/10	2	3	3	2
16 MHz	3	14	2	2/9	2	3	3	2
18 MHz	-	6	2	1/6	2	3	2	2
22 MHz	2	6	2	1/4	2	2	3	2
26 MHz	-	6	2	1/2	2	2	3	2/3



INTERNATIONAL TELECOMMUNICATION UNION

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WORKING GROUP 4-C

NOTE BY THE CHAIRMAN OF WORKING GROUP 4-C

In order to assist Working Group 4-C, attached is a document containing comparison of different proposals concerning Appendix 31.

> A.R. VISSER Chairman of Working Group 4-C

Annex: 1

- 2 -MOB-87/DT/17-F/E/S

Annexe / Annex / Anexo

Stations côtières et stations de navire, téléphonie, exploitation duplex (voies à deux fréquences)

Coast and Ship stations, telephony, duplex operation (two-frequency channels)

Estaciones costeras y estaciones de barco, telefonía en duplex (canales de dos frecuencias)

RR	CEPT	USA	CAN	URS	В	J	IND
26	30	32	28	29	28	29	30
6	13	9	7	5	10	10	7
31	39/40	38	32	36	39	32	35
32	55	44	45	35	54	55	38
41	64	58	54	45	71	60	50
-	14	18	10	13	18	16	13
40	50	57	55	44	51	60	50
-	6	15	10	13	11	18	13
	26 6 31 32 41 -	26 30 6 13 31 39/40 32 55 41 64 - 14 40 50	26 30 32 6 13 9 31 39/40 38 32 55 44 41 64 58 - 14 18 40 50 57	26 30 32 28 6 13 9 7 31 39/40 38 32 32 55 44 45 41 64 58 54 - 14 18 10 40 50 57 55	26 30 32 28 29 6 13 9 7 5 31 39/40 38 32 36 32 55 44 45 35 41 64 58 54 45 - 14 18 10 13 40 50 57 55 44	26 30 32 28 29 28 6 13 9 7 5 10 31 39/40 38 32 36 39 32 55 44 45 35 54 41 64 58 54 45 71 - 14 18 10 13 18 40 50 57 55 44 51	26 30 32 28 29 28 29 6 13 9 7 5 10 10 31 $39/40$ 38 32 36 39 32 32 55 $44^{}$ 45 35 54 55 41 64 58 54 45 71 60 $ 14$ 18 10 13 18 16 40 50 57 55 44 51 60

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Voies / Channels /Canales

Stations de navire et stations côtières, téléphonie, exploitation simplex (voies à une fréquence) et exploitation à bandes croisées entre navires (deux fréquences) (RR 4199)

Ship stations and coast stations, telephony, simplex operation (single-frequency channel) and intership cross-band operation (two frequencies) (RR 4199)

Estaciones de barco y estaciones costeras, telefonía en simplex (canales de una frecuencia) y comunicaciones entre barcos en bandas cruzadas (dos frecuencias) (RR 4199)

	•				-				
		RR	CEPT	USA	CAN	URS	В	J	IND
4 M	Hz	1	2	2 + 2	2	4	4	1	6
6 M	- I	2	2	3	3	6	3	2	3
8 M	Hz	2	3	4 + 6	2	4	3	1	3
12 M	Hz	3	3	4	10	8	6	3	10
16 M	Hz	3	5	8	10	10	8	3	10
18 M	Hz	-	2	8	4	5	8	2	5
22 M	Hz	5	5	9	6	6	9	4	6
26 MI	Hz	-	3	10	5	8	10	4	8

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Stations de navire, systèmes de télégraphie à large bande, de fac-similé et systèmes spéciaux de transmission (RR 4200) [voies]

Ship stations, wideband telegraphy, facsimile and special transmission systems (RR 4200) [channels]

Estaciones de barco, telegrafía de banda ancha, facsímil y sistemas especiales de transmisión (RR 4200) [canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	5	5	5 + 3	5	6	5	5	7
6 MHz	7	7	7	7	7	6	7	7
8 MHz	10	10	10 + 3	10	12	10	. 11	12
12 MHz	12	12	15	14	15	15	14	15
16 MHz	15	15	19	20	17	20	24	17
18 MHz	-	6	7	6	7	· 7	8	7
22 MHz	12	12	15	18	15	15	18	15
26 MHz	-	12	13	6	8	13	12	8

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Stations de navire, transmission de données océanographiques (RR 4201) [voies]

Ship stations, oceanographic data transmission (RR 4201) [channels]

Estaciones de barco, transmisión de datos oceanográficos (RR 4201) [canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	10	10	-	10	10	1	-	10
6 MHz	10	10	-	10	10	1	-	10
8 MHz	10	10	-	10	10	2		10
12 MHz	10	10	10	10	10	3	-	10
16 MHz	10	10	10	10	10	4	-	10
18 MHz		-	-	10	-	-	-	-
22 MHz	10	10	10	10	10	10	-	10
26 MHz	10	-	-	10	-	-	-	-

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Stations de navire, systèmes à bande étroite de télégraphie à impression directe et de transmission de données (fréquences non appariées) (RR 4203) [voies]

Ship stations, narrow-band direct-printing telegraph and data transmission systems (non-paired frequencies) (RR 4203) [channels]

Estaciones de barco, sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos (frecuencias no asociadas por pares) (RR 4203) [canales]

		RR	CEPT	USA	CAN	URS	В	J	IND
4 MI	Hz	5	9	5 + 22	7	25	5	8	6
6 MI	Hz	4	6	3	8	52	3	6	4
8 MI	Hz	6	7	6 + 41	6	70	6	8	71
12 MH	Hz	14	10	14	20	113	14	32	95
16 MH	łz	22	12	22	19	145	22	35	145
18 MH	łz	-	4	11	5	41	11	18	41
22 MH	Hz	2	12	19	12	80	6	36	80
26 MH	łz	-	13	9	15	55	10	-	55

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Stations côtières, télégraphie Morse AlA et télégraphie à large bande, fac-similé systèmes spéciaux de transmission, systèmes de transmission de données et systèmes de télégraphie à impression directe (RR 4209); kHz

Coast stations, wideband and Al Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems (RR 4209); kHz

Estaciones costeras, telegrafía Morse Al y telegrafía de banda ancha, facsímil, sistemas especiales de transmisión, sistemas de transmisión de datos y sistemas de telegrafía de impresión directa (RR 4209); kHz

•	RŔ	CEPT	USA	CAN	URS	В	J	IND
4 MHz	130	94.75	130	122	130	130	120.5	130
6 MHz	168.5	121.75	168	166	168.5	168.5	143.75	168
8 MHz	269	199.75	269	266	269	269	271	269
12 MHz	418.5	308.75	418	416.5	418.5	418.5	336.75	418
16 MHz	337.5	273.25	337	391	337.5	337.5	321.25	337
18 MHz	-	30	57.5	69.25	64	57.5	47.5	-
22 MHz	250.5	299.25	250	249	250.5	250.5	227.5	250
26 MHz	- 1	11.25	21.5	73	19	21.5	11.75	

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Stations de navire, télégraphie Morse AlA, fréquences d'appel (RR 4204)

Ship stations, Al Morse telegraphy, calling frequencies (RR 4204) Estaciones de barco, telegrafía Morse Al, frecuencias de llamada (RR 4204)

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	RR	CEPT	USA	CAN	URS	В	J	IND
		k 9.25	5 k					
4 MHz	7.45 k	c 18		18 c	3 k	18 c	4.25 k	4 k
		k 9.25	6 k					
6 MHz	11.05 k	c 18		18 c	4 k	18 c	6.25 k	4 k
		k 9.25	9 k					
8 MHz	14.65 k	c 18		18 c	7 k	18 c	8.25 k	7 k
		k 9.25	19 k					
12 MHz	22 k	c 18		18 c	12 k	18 c	12.25 k	12 k
		k 9.25	25 k					
16 MHz	29 k	c 18		18 c	15 k	18 c	6.25 k	15 k
18 MHz	-	-	-	10 c	-		-	-
		k 5.25	17 k					
22 MHz	20 k	c 10		18 c	8 k	10 c	12.25 k	8 k
		k 1.75	-					
26 Mhz	6 k	с 3		6 c	-	3 с	6.25 k	-

c = voies/channels/canales

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Stations de navire, télégraphie AlA Morse, fréquences de travail (RR 4206) [Voies]

Ship stations, Al Morse telegraphy, working frequencies (RR 4206) [Channels]

Estaciones de barco, telegrafía Al Morse, frecuencias de trabajo (RR 4206) [Canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	62	42 ¹ /27 ² /32 ³	41/36	45	27	37	28	49
6 MHz	57	46 ¹ /30 ² /15 ³	42/35	50	28	34	28	53
8 MHz	120	83 ¹ /53 ² /27 ³	77/71	85	50	42	56	50
12 MHz	194	119 ¹ /76 ² /38 ³	175/137	146	65	121	84	55
16 MHz	234	156 ¹ /100 ² /51 ³	210/164	193	94	140	112	94
18 MHz	-	-	-	40	-	-	-	-
22 MHz	118	97 ¹ /63 ² /29 ³	106/82	90	45	233	99	46
26 MHz	-	191/122/73	-	15	-	35	20	-

1 Jusqu'au/until/hasta el 14.06.1993.

² Depuis le/as from/desde el 15.06.1993, et jusqu'au/and until/y hasta el 14.06.1997.

³ Depuis le/from/desde el 15.06.1997, aprés/onwards/y en adelante.

Stations côtières, systèmes à bande étroite de télégraphie à impression directe et de transmission de données (fréquences appariées) (RR 4207) [Voies]

Stations de navire, systèmes à bande étroite de télégraphie à impression directe et de transmission de données (fréquences appariées) (RR 4202) [Voies]

Coast stations, narrow-band direct-printing telegraph and data transmission systems (paired frequences) (RR 4207) [Channels]

Ship stations, narrow-band direct-printing telegraph and data transmission systems (paired frequencies) (RR 4202) [Channels]

Estaciones costeras, sistema de banda estrecha de telegrafía de impresión directa y de transmisión de datos (frecuencias asociadas por pares) (RR 4207) [Canales]

Estaciones de barco, sistemas de banda estrecha de telegrafía de impresión directa y de transmisión de datos (frecuencias asociadas por pares) (RR 4202) [Canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	14	27 ¹ /42 ² /57 ³	25 ⁴ /20 ¹	20	63	14	29	46
6 MHz	23	441/602/753	354/291	35	31	23	53	50
8 MHz	27	63 ¹ /93 ² /119 ³	49 ⁴ /43 ¹	52	97	27	36	106
12 MHz	57	179 ¹ /222 ² /260 ³	113 ⁴ /75 ¹	95	149	57	100	140
16 MHz	69	205 ¹ /261 ² /310 ³	138 ⁴ /92 ¹	100	202	69	99	173
18 MHz	-	88	14	40	31	14	46	31
22 MHz	67	121 ¹ /155 ² /189 ³	1034/791	120	185	67	100	149
26 MHz	-	841/922/963	14	20	31	15	16	31

Immédiatement après l'entrée en vigueur des Actes finals de la MOB-87. Immediately after the entering into force of the Final Acts of WARC MOB-87. Inmediatamente después de la entrada en vigor de las Actas Finales de la CAMR MOB-87.

² Depuis le/from/desde el 15.06.1993.

³ Depuis le/from/desde el 15.06.1997.

⁴ Depuis le/from/desde el 01.02.1997.

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Stations côtières, fréquences d'appel sélectif numérique (RR 4208) [voies] Stations de navire, fréquences d'appel sélectif numérique (RR 4205) [voies] Coast stations, digital selective calling frequencies (RR 4208) [channels] Ship stations, digital selective calling frequencies (RR 4205) [channels]

Estaciones costeras, frecuencias de llamada selectiva digital (RR 4208) [canales]

Estaciones de barco, frecuencias de llamada selectiva digital (RR 4205) [canales]

	RR	CEPT	USA	CAN	URS	В	J	IND
4 MHz	2	5	1	1/3	1	3	3	1
6 MHz	2	7	1	1/4	1	2	3	1
8 MHz	2	10	1/2	1/5	1	3	2	1
12 MHz	3	16	2	2/10	2	3	3	2
16 MHz	3	14	2	2/9	2	3	3	2
18 MHz	-	6	2	1/6	2	3	2	2
22 MHz	2	6	2	1/4	2	2	3	2
26 MHz	-	6	2	1/2	2	2	3	2/3

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NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

-B. A. 500 kHz

Corrigendum 1 to Document DT/18-E 21 September 1987 Original: English

WORKING GROUP 5-B

(MOD) 2969

2970

The frequency 500 kHz is the international distress frequency for Morse telegraphy (see also No. 472); it shall be used for this purpose by ship, aircraft and survival craft stations which employing Morse telegraphy on frequencies in the bands between 415 kHz and 535 kHz when requesting assistance from the maritime services. It shall be used for the distress call and distress traffic, for the urgency signal and urgency messages, for the safety signal and, outside regions of heavy traffic, for short safety messages. When practicable, safety messages shall be transmitted on the working frequency after a preliminary annoucement on 500 kHz (see also No. 4236). For distress and safety purposes, the classes of emission to be used on 500 kHz shall be A2A, A2B, H2A or H2B (see also No. 3042 and Resolution No. A).

> T. HAHKIO Chairman of Working Group 5-B

NOB-87 INTERNATIONAL TELECOMMUNICATION NO BOR SERVICES GENEVA, September-October 1987

Document DT/18-E 21 September 1987 Original: English

Source: DL/3

WORKING GROUP 5-B

DRAFT

FIRST REPORT OF WORKING GROUP 5-B TO COMMITTEE 5

Working Group 5-B has held two meetings (16 and 18 September 1987). 1.

2. At its first meeting, it was noted that matters belonging to the Resolution on the timing and status of texts in Chapters IX and N IX were excluded from the terms of reference. It was therefore decided to consider first the scenario where Chapter IX is still mandatory. It was also understood that the texts provided might have to be revised and adjusted after decision on the Resolution has been taken in Committee 5.

The Working Group agreed on the provisions under Articles 37 and 38 up to 3. provision 2997A, as given in the annex.

The beginning of provision 2943A, the reference to Resolution No. A, the 4. retention of No. 2944 as a reference in provision No. 2973, the retention of provisions 2945 to 2947 and the new provision 2943B are in square brackets and are only as a reminder that there are proposals on them but that these matters remain open until the decision on the Resolution has been taken in the Committee.

> T. HAHKIO Chairman of Working Group 5-B

ANNEX

NOC CHAPTER IX

- NOC Mob-83 Distress and Safety Communications¹
- NOC
- NOC

General Provisions

ARTICLE 37

- MOD 2930 § 1. The provisions procedure specified in this Chapter are is obligatory [see Resolution No. A] in the maritime mobile service for stations using the frequencies and techniques prescribed in this Chapter and for communications between these aircraft stations and aircraft stations of the maritime-mobileservice. [See also Nos. 347 and 348.] However, stations of the maritime mobile service, when additionally fitted with any of the equipment used by stations operating in conformity with the provisions specified in Chapter N IX shall, when using that equipment, comply with the appropriate provisions of that chapter. The provisions of this Chapter are also applicable to the aeronautical mobile service except in the case of special arrangements between the governments concerned.
- NOC 2931 § 2. The procedure specified in this Chapter is obligatory in the maritime mobile-satellite service and for communications between stations on board aircraft and stations of the maritime mobile-satellite service, where this service or stations of this service are specifically mentioned. Nos. 3086, 3090, 3095, 3096, 3097, 3098, 3200, 3203 and 3223 are also applicable.
 - 2932 § 3. (1) No provision of these Regulations prevents the use by a Mob-83 mobile station or mobile earth station in distress of any means at its disposal to attract attention, make known its position, and obtain help.

2933 (2) No provision of these Regulations prevents the use by Mob-83 stations on board aircraft or ships engaged in search and rescue operations, in exceptional circumstances, of any means at their disposal to assist a mobile station or mobile earth station in distress.

2934 (3) No provision of these Regulations prevents the use by a
 Mob-83 land station or coast earth station, in exceptional circumstances, of any means at its disposal to assist a mobile station or mobile earth station in distress (see also No. 959).

C.IX ¹ For the purposes of this Chapter, distress and safety communications include distress, urgency and safety calls and messages.

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- MOD 2934A When special circumstances make it indispensable to do so, an administration may, as an exception to the methods of working provided for by these Regulations, authorize ship earth station installations located at Rescue Coordination Centres¹ to communicate with other stations using bands allocated to the maritime mobile-satellite service, for distress and safety purposes.
- NOC 2935 § 4. In cases of distress, urgency or safety, transmissions:
- NOC 2936a) by telegraphy, when using Morse, shall not in
general exceed a speed of sixteen words a minute;
- NOC 2937 b) by radiotelephony, shall be made slowly and distinctly, each word being clearly pronounced to facilitate transcription.
- MOD 2937A § 4A. Distress, urgency and safety transmissions may also be Mob-83 made, [taking into account Nos. 2944 to 2949] using digital selective calling and satellite techniques and/or direct-printing telegraphy, in accordance with relevant CCIR Recommendations.
- MOD 2938 § 5. The abbreviations and signals of Appendix 14 and the Phonetic Alphabet and Figure Code in Appendix 24 should be used where applicable.² and, where -language-difficulties-exist, -the-use of -the International Code of Signals also is recommended.
- NOC 2939 § 6. (1) The International Convention for the Safety of Life at Sea prescribes which ships and which of their survival craft shall be fitted with radio equipment and which ships shall carry portable radio equipment for use in survival craft. It also prescribes the requirements which shall be complied with by such installations.
 - 2934A.1 ¹ The term "Rescue Coordination Centre" refers to a Mob-83 facility designated by a competent national authority to perform rescue coordination functions consistent with the International Convention on Maritime Search and Rescue (1979).
- ADD 2938A.1 ² The use of the Standard Maritime Navigational Vocabulary and, where language difficulties exist, the International Code of Signals, both published by the International Maritime Organization, is also recommended.

- NOC 2940 (2) The Annexes to the Convention on International Civil Mob-83 Aviation state which aircraft should be fitted with radio equipment and which aircraft should carry portable survival radio equipment. They state also the requirements which should be complied with by such installations.
- NOC 2941 § 7. The applicable provisions of the present Regulations shall, however, be observed in the use of all such installations.
- MOD 2942 § 8. Mobile stations¹ of the maritime mobile service may Mob-83 communicate, for safety purposes, with stations of the aeronautical mobile service. Such communications shall be made on the frequencies authorized, and under the conditions specified, in Section I of Article 38 [see also Nos. 2932, <u>347 and 348</u>].
- NOC 2942A § 8A. Mobile stations of the aeronautical mobile service may Mob-83 communicate, for safety purposes, with stations of the maritime mobile service.
- MOD 2943 § 9. Any aircraft required by national or international Mob-83 regulations to communicate for distress, urgency or safety purposes with stations of the maritime mobile service. shall-becapable-of-transmitting-preferably-class-A2A-or-H2A-and-receiving preferably-class-A2A-and-H2A-emissions-on-the-carrier-frequency-500-kHz-or;-on-the-carrier-frequency-2-182-kHz;-transmitting-class J3E-or-H3E-and-receiving-class-A3E;-J3E-and-H3E-emissions²,-or-on the-carrier-frequency-4-125-kHz;-transmitting-class-J3E-and receiving-class-J3E-emissions;-or-on-the-frequency-156.8-MHz transmitting-and-receiving-class-G3E-emissions.
- NOC 2942.1 ¹ Mobile stations communicating with the stations of the Mob-83 aeronautical mobile (R) service in bands allocated to the aeronautical mobile (R) service shall conform to the provisions of the Regulations which relate to that service and, as appropriate, any special arrangements between the governments concerned by which the aeronautical mobile (R) service is regulated.
- (MOD) 2943A.1 ² As an exception, the requirement to receive class A3E Mob-83 emissions on the carrier frequency 2 182 kHz may be made optional when permitted by national regulations.

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- ADD 2943A [Until the full implementation of] the GMDSS shall be capable of transmitting preferably class A2A or H2A and receiving preferably class A2A and H2A emissions on the carrier frequency 500 kHz or, on the carrier frequency 2 182 kHz, transmitting class J3E or H3E and receiving class A3E, J3E and H3E emissions¹, or on the carrier frequency 4 125 kHz, transmitting class J3E and receiving J3E emissions, or on the frequency 156.8 MHz transmitting and receiving class G3E emissions.
- ADD 2943B After the full implementation of the GMDSS shall be capable of transmitting and receiving class J3E emissions when using the carrier frequency 2 182 kHz or the carrier frequency 4 125 kHz or class G3E emissions when using the frequency 156.8 MHz.
- SUP 2944 § 10. Mob-83

MOD 2945 § 11. Until the full implementation a future world-Mob-83 administrative radio-conference-has-made full-provision-fer-thenormal eperational-use of the future global maritime distress and safety system (FGMDSS):

	2946 МоЪ-83	a)	all provisions of the Radio Regulations pertaining to the present distress, urgency and safety communications shall be maintained in force;
	2947 Mob-83	b)	particular care shall be taken to ensure that harmful interference is not caused to distress, urgency and safety communications on the established international distress frequencies 500 kHz, 2 182 kHz and 156.8 MHz and on the supplementary distress frequencies 4 125 kHz and 6 215.5 kHz;
SUP	2948 МоЪ-83	c)	operators of stations participating in the future global maritime distress and safety system (FGMDSS) for distress, urgency or safety purposes, should recognize that it may be necessary to revert to the other distress, urgency and safety arrangements provided for in these Regulations (see Recommendation 201 (Rev.Mob-83));

(MOD) 2943A.1 ¹ As an exception, the requirement to receive class A3E Mob-83 emissions on the carrier frequency 2 182 kHz may be made optional when permitted by national regulations.

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SUP 2949d) the frequencies identified in Section I of
Mob-83Mob-83Article 38 for exclusive use for distress and
safety calls by digital selective calling may
additionally be used for test transmissions only to
the extent necessary to facilitate the testing and
progressive introduction of that system.

2950 to 2966 NOT allocated.

NOC ARTICLE 38

NOC Frequencies for Distress and Safety

NOC Section I. Availability of Frequencies

- SUP 2967 A. 490 kHz Mob-83
- SUP 2968 § 0. The frequency 490 kHz is used exclusively for distress Mob-83 and safety calls in the shore-to-ship direction by digital selective calling techniques (see No. 2944). Additional conditions concerning the use of this frequency are given in Resolution No. 206 (Mob-83).
- MOD 2969 B. A. 500 kHz
- Mob-83
- 2970 MOD (1) The frequency 500 kHz is the international distress § 1. Mob-83 frequency for Morse telgraphy (see also No. 472); it shall be used for this purpose by ship, aircraft and survival craft stations employing frequencies in the bands between 415 kHz and 535 kHz when requesting assitance [in these bands] from the maritime services. It shall be used for the distress call and distress traffic, for the urgency signal and urgency messages, for the safety signal and, outside regions of heavy traffic, for short safety messages. When practicable, safety messages shall be transmitted on the working frequency after a preliminary announcement on 500 kHz (see also No. 4236). For distress and safety purposes, the classes of emission to be used on 500 kHz shall be A2A, A2B, H2A or H2B (see also No. 3042) [and Resolution No. A].

NOC 2971 (2) However, ship and aircraft stations which cannot transmit on 500 kHz should use any other available frequency on which attention might be attracted.

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518 kHz

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SUP 2971A Mob-83

- SUP 2971B § 1A. In the maritime mobile service, the frequency 518 kHz Mob-83 is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy (see No. 2944 and Resolution No. 318 (Mob-83)).
- SUP 2971C D. 2 174.5 kHz
- Mob-83
- SUP 2971D § 1B. The frequency 2 174.5 kHz is used exclusively for Mob-83 distress and safety traffic by narrow-band direct-printing telegraphy (see No. 2944).
- (MOD) 2972 E. B. 2 182 kHz Mob-83
- § 2. (1) The carrier frequency 2 182 kHz^1 is an international MOD 2973 distress frequency for radiotelephony (see also Nos. 500 and 501); Mob-83 it shall be used for this purpose by ship, aircraft and survival craft stations and by emergency position-indicating radiobeacons using frequencies in the authorized bands between 1 605 kHz and 4 000 kHz when requesting assistance from the maritime services. It is used for the distress call and distress traffic, for signals of emergency position-indicating radiobeacons, for the urgency signal and urgency messages and for the safety signal. Safety messages shall be transmitted, where practicable, on working frequency after a preliminary announcement on 2 182 kHz (see No. 2944). The class of emission to be used for radiotelephony on the frequency 2 182 kHz shall be H3E. Class A3E emission may continue to be used by apparatus provided solely for distress, urgency and safety pruposes (see No. 4127). The class of emission to be used by emergency position-indicating radiobeacons shall be as specified in Appendix 37 (see also No. 3265). The class of emission J3E may be used for the exchange of distress traffic on 2 182 kHz following the acknowledged reception of a distress call using digital selective calling techniques on 2 187.5 kHz taking into account that other shipping in the vicinity may not be able to receive this traffic. (See also N 2973 [and Resolution No. A].)

2973.1

¹ Where administrations provide at their coast stations a watch on 2 182 kHz for receiving class J3E emissions as well as class A3E and H3E emissions, ship stations may communicate with them using class J3E emissions.

MOD 2974 (2) If a distress message on the carrier frequency Mob-83 2 182 kHz has not been acknowledged, the radiotelephone alarm signal, whenever possible followed by the distress call and message, may be transmitted again on a carrier frequency of 4 125 kHz or [6 215.5 kHz] as appropriate (see Nos. 2982, 2986 and 3054).

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- MOD 2975 (3) However, ship and aircraft stations which cannot transmit on the carrier frequency 2 182 kHz or, in accordance with No. 2974, on the carrier frequencies 4 125 kHz or [6 215.5 kHz], should use any other available frequency on which attention might be attracted.
- SUP 2976 Mob-83
- NOD 2977 (5) Any coast station using the carrier frequency 2 182 kHz for distress purposes shall be able to transmit the radiotelephone alarm signal described in No. 3270 (see also Nos. 3277, 3278 and 3279).
- NOC 2978 (6) Any coast station authorized to send navigational warnings should be able to transmit the navigational warning signal decribed in Nos. 3284, 3285 and 3286.
- SUP 2978A F. 2 187.5 kHz Mob-83
- SUP 2978B § 2A. The frequency 2 187.5 kHz is used exclusively for Mob-83 distress and safety calls by digital selective calling techniques (see No. 2944). It may also be used for emergency positionindicating radiobeacons using digital selective calling.
- (MOD) 2979 G. C. 3 023 kHz Mob-83
- NOC 2980 § 3. the aeronautical carrier (reference) frequency Mob-83 3 023 kHz may be used for intercommunication between mobile stations when they are engaged in coordinated search and rescue operations, and for communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 Aer2 (see Nos. 501 and 505).

⁽MOD) 2981 H. D. 4 125 kHz Mob-83

MOD 2982 § 4. (1) The carrier frequency 4 125 kHz is used to supplement Mob-83 the carrier frequency 2 182 kHz for distress and safety purposes and for call and reply (see also No. 520). This frequency is also used for distress and safety traffic by radiotelephony (see <u>also</u> No. N 2982). N2986 [and <u>Resolution No. A]</u>).

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- MOD 2982A (2) The carrier frequency [4 125 kHz] may be used by Mob-83 aircraft stations to communicate with stations of the maritime mobile service for distress and safety purposes, <u>and search and</u> rescue (see No. 2943).
- SUP 2982B I. 4 177.5 kHz Mob-83
- SUP 2982C § 4A. The frequency 4 177.5 kHz is used exclusively for Mob-83 distress and safety traffic using narrow-band direct-printing telegraphy (see No. 2944).
- SUP 2982D J. 4 188 kHz Mob-83
- SUP 2982E § 4B. The frequency 4 188 kHz is used exclusively for Mob-83 distress and safety calls using digital selective calling techniques (see No. 2944).
- (MOD) 2983 K. E. 5 680 kHz Mob-83
- NOC 2984 § 5. The aeronautical carrier (reference) frequency Mob-83 5 680 kHz may be used for intercommunication between mobile stations when they are engaged in coordinated search and rescue operations, and for communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 Aer2 (see also Nos. 501 and 505).
- MOD 2985 ±. F. [6 215.5 kHz] Mob-83
- MOD 2986 § 6. The carrier frequency [6 215.5 kHz] is used to Mob-83 supplement the carrier frequency 2 182 kHz for distress and safety purposes and for call and reply (see also No. 520). This frequency is also used for distress and safety traffic by radiotelephony (see No. -2944)_ also No. N 2986 [and Resolution No. A]).
- SUP 2986A M. 6 268 kHz Mob-83
- SUP 2986B § 6A. The frequency 6 268 kHz is used exclusively for Mob-83 distress and safety traffic using narrow-band direct-printing telegraphy (see No. 2944).

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- SUP 2986C 6 282 kHz N. Mob-83 SUP 2986D The frequency 6 282 kHz is used exclusively for § 6B. Mob-83 distress and safety calls by digital selective calling techniques (see No. 2944). SUP 2986E 8 257 kHz 0. Mob-83 SUP 2986F § 6C. The carrier frequency 8 257 kHz is used for distress Mob-83 and safety traffic by radiotelephony (see No. 2944). SUP 2986G P. 8 357.5 kHz Mob-83 SUP 2986H § 6D. The frequency 8 357.5 kHz is used exclusively for Mob-83 distress and safety traffic using narrow-band direct-printing telegraphy (see No. 2944). (MOD) 2987 Q. G. 8 364 kHz Mob-83 MOD 2988 § 7. The frequency 8 364 kHz is designated for use by survival craft stations if they are equipped to transmit on frequencies in the bands between 4 000 kHz and 27 500 kHz and if they desire to establish communications relating to search and rescue operations with stations of the maritime and aeronautical mobile services (see also No. 501). [and Resolution No. A]). SUP 2988A R. 8 375 kHz Mob-83 SUP 2988B '§ 7A. The frequency 8 375 kHz is used exclusively for distress and safety calls using digital selective calling Mob-83 techniques (see No. 2944). 2988C SUP 12 392 kHz S. Mob-83 SUP 2988D § 7B. The carrier frequency 12 392 kHz is used for distress Mob-83 and safety traffic by radiotelephony (see No. 2944). SUP 2988E Τ. 12 520 kHz Mob-83 The frequency 12 520 kHz is used exclusively for SUP 2988F § 7C. distress and safety traffic using narrow-band direct-printing Mob-83 telegraphy (see No. 2944).

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SUP	2988G Mob-83	U. 12 563 kHz
SUP	2988H Mob-83	§ 7D. The frequency 12 563 kHz is used exclusively for distress and safety calls using digital selective calling techniques (see No. 2944).
SUP	2988I Mob-83	V. 16 522 kHz
SUP	2988J Mob-83	§ 7E. The carrier frequency 16 522 kHz is used for distress and safety traffic by radiotelephony (see No. 2944).
SUP	2988K Mob-83	W. 16 695 kHz
SUP	2988L Mob-83	§ 7F. The frequency 16 695 kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy (see No. 2944).
SUP	2988M Mob-83	X. 16 750 kHz .
SUP	2988N Mob-83	§ 7G. The frequency 16 750 kHz is used exclusively for distress and safety calls using digital selective calling techniques (see No. 2944).
(MOB)	2989 Mob-83	Y. H. 121.5 MHz and 123.1 MHz
SUP	2990 Mob-83	
NOC	2990A Mob-83	§ 8. (1A) The aeronautical emergency frequency 121.5 MHz ¹ is used for the purposes of distress and urgency for radiotelephony by stations of the aeronautical mobile service using frequencies in

the band between 117.975 MHz and 136 MHz (137 MHz after 1 January 1990). This frequency may also be used for these purposes in survival craft stations and emergency positionindicating radiobeacons.

NOC 2990A.1 ¹ Normally aircraft stations transmit distress and Mob-83 urgency messages on the working frequency in use at the time of the distress or urgency incident. - 12 -MOB-87/DT/18-E

- NOC 2990B (1B) the aeronautical auxiliary frequency 123.1 MHz, which Mob-83 is auxiliary to the aeronautical emergency frequency 121.5 MHz, is for use by stations of the aeronautical mobile service and by other mobile and land stations engaged in coordinated search and rescue operations (see also No. 593).
- NOC 2991 (2) Mobile stations of the maritime mobile service may Mob-83 communicate with stations of the aeronautical mobile service on the aeronautical emergency frequency 121.5 MHz for the purposes of distress and urgency only, and on the aeronautical auxiliary frequency 123.1 MHz for coordinated search and rescue operations using class A3E emissions for both frequencies (see also Nos. 501 and 593). They shall then comply with any special arrangements between the governments concerned by which the aeronautical mobile service is regulated.
- (MOD) 2992 Z. I. 156.3 MHz Mob-83
- NOC 2993 § 9. The frequency 156.3 MHz may be used for communication Mob-83 between ship stations and aircraft stations, using G3E emission, engaged in coordinated search and rescue operations. It may also be used by aircraft stations to communicate with ship stations for other safety purposes (see also note g) of Appendix 18).
- SUP 2993A AA. 156.525 MHz
- SUP 2993B § 9A. The frequency 156.525 MHz is used exclusively in the Mob-83 maritime mobile service for distress and safety calls by digital selective calling techniques (see Nos. 613A and 2944 and Resolution No. 317 (Mob-83)).
- (MOD) 2993C AB. J. 156.650 MHz
- MOD 2993D § 9B. The frequency 156.650 MHz is used for ship-to-ship Mob-83 communications related to the safety of navigation in accordance with note n) of Appendix 18 (see No. -2944).
- (MOD) 2993E AG. K. 156.8 MHz

Mob-83

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- MOD 2994 § 10. (1) The frequency 156.8 MHz is the international distress, Mob-83 safety and calling frequency for radiotelephony for stations of the maritime mobile service when they use frequencies in the authorized bands between 156 MHz and 174 MHz (see also Nos. 501 and 613). It is used for the distress signal, the distress call and distress traffic, as well as for the urgency signal, urgency traffic and the safety signal (see also No. 2995A). Safety messages shall be transmitted where practicable on a working frequency after a preliminary announcement on 156.8 MHz. The class of emission to be used for radiotelephony on the frequency 156.8 MHz shall be G3E (see No. 2944 <u>N 2994</u>, end Appendix 19). [and Resolution No. A]).
- NOC 2995 (2) However, ship stations which cannot transmit on 156.8 MHz should use any other available frequency on which attention might be attracted.
- NOC 2995A (3) The frequency 156.8 MHz may be used by aircraft Mob-83 stations for safety purposes only.
- SUP 2995B AD. 156.825 MHz Mob-83
- SUP 2995C § 10A. The frequency 156.825 MHz is used exclusively in Mob-83 the maritime mobile service for distress and safety traffic by direct-printing telegraphy (see Nos. 2944, 3033 and 4393 and note k) of Appendix 18).
- (MOD) 2996 AE. L. 243 MHz Mob-83

(See Nos. 501 and 642)

AF. M. 406 - 406.1 MHz Band

(MOD) 2997 Mob-83

NOC 2997A § 10B. The frequency band 406 - 406.1 MHz is used exclusively Mob-83 by satellite emergency position-indicating radiobeacons in the Earth-to-space direction (see No. 649). **NOB-87** INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987 Document DT/19-E 21 September 1987 Or<u>iginal</u>: English

TECHNICAL WORKING GROUP OF THE PLENARY

DRAFT

THIRD REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

1. The Technical Working Group of the Plenary considered all proposals concerning Appendix 38 to the Radio Regulations and adopted the modifications contained in Annex I.

2. Appendix 40 to the Radio Regulations has been deleted as proposed.

3. Proposals concerning the creation of new appendices relating to technical characteristics of digital selective calling equipment and of emergency position indicating radiobeacons at 406 MHz and 1.6 GHz have not been adopted. Due to the fact that the CCIR has approved comprehensive Recommendations for the three types of equipment it was felt sufficient to make reference to the relevant CCIR Recommendations in the appropriate Articles of the Radio Regulations. Committees 5 and 6 have been informed accordingly.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

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ANNEX

APPENDIX 38

Narrow-Band Direct-Printing Telegraph Equipment <u>in the Maritime Mobile-Service Using Error</u> <u>Detection and Correction Methods</u> (See Articles 59, 60, 63 and 64)

The equipment for narrow-band direct-printing telegraph systems in the maritime mobile service <u>using error detection and</u> <u>correction methods</u> shall fulfil the following conditions:

- a) the equipment shall accept signals conforming to International Telegraph Alphabet Code No. 2 at a modulation rate of 50 bauds and shall provide similar signals at its output suitable for extension to the public telegraph network;
- b) the modulation rate over the radio path shall not exceed 100 bauds;
- c) class F1B or J2B emissions shall be used with a frequency shift of 170 Hz, (Note-1); or class G1B (narrow-band phase-shift keying telegraphy) shall be used (Note 1);
- d) the frequency tolerance of the transmitted signal shall be <u>+-40 Hz for ship stations</u>, and shall be <u>+-15-Hz for</u> ceast stations (Note-1, Note-2 and Note-3); <u>maintained</u> within the tolerances specified in Appendix 7 (Note 2);
- e) the higher of the emitted frequencies shall correspond to "space" (start), and the lower of the emitted frequencies shall correspond to "mark" (stop) in accordance with the relevant CCIR Recommendation;

<u>Note 2</u> - For operational purposes the associated receiving equipment should conform to the frequency stability of the transmitters.

MOD

<u>Note 1</u> - When frequency <u>[or phase-]</u> shift keying is effected by applying audio signals to the input of a single-sideband transmitter particular care should be taken to suppress adequately the residual carrier of the single-sideband modulation process. In addition a suitable choice of the centre audio frequency will minimize the possibility of the residual carrier causing interference to nearby channels. For this reason <u>some</u> <u>-administrations-have-chosen the CCIR recommends</u> 1 700 Hz as the centre frequency.

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g) f) when an error detecting and correcting system is used for direct-printing telegraphy in the maritime mobile service, A 7-unit ARQ system or a 7-unit forward acting error-correcting and indicating time diversity system, using the same code, shall be employed. Remaining technical characteristics of the error-detecting and correcting equipment should be in accordance with the relevant CCIR Recommendations;

- (i) g) a station, equipped with a direct-printing system in accordance with the provisions of the present Appendix and-using a two block call signal, which has not-alredy been shall be assigned a number in accordance with Nos. 2088, 2134 and 2143 to 2146 should be assigned such a number for the directprinting system;
- h) a station, <u>equipped</u> with a direct-printing system in <u>accordance</u> with the provisions of the present <u>Appendix</u> capable of using a three block call signal, shall employ a maritime mobile service identity number in accordance with Appendix 43 when communicating with stations also capable of using a three block call signal.
- i) conversion from the numerical identification to the 28-bit (4 character) two or three block call signal pattern shall be performed according to the relevant CCIR Recommendations.



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WORKING GROUP 6-A

Draft

REPORT OF THE CHAIRMAN OF THE DRAFTING GROUP 6-A/1 TO THE CHAIRMAN OF WORKING GROUP 6-A

In order to assist Working Group 6-A, attached is a draft of Appendix 11.

> T. KIYASU Chairman of Drafting Group 6-A/1

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APPENDIX 11

Section VA. Stations on board ships participating in the GMDSS

These stations shall be provided with:

- 1. the licence prescribed by Article 24;
- 2. certificates of [operator or operators];
- 3. a log in which the following are recorded as they occur, together with the time of their occurrence, unless administrations have adopted other arrangements for recording all information which the log should contain:
 - a) a summary of communications relating to distress, urgency and safety traffic,
 - b) a reference to important service incidents,
 - c) if the ship's rules permit, the position of the ship at least once a day;
- 4. the Alphabetical List of Call Signs and/or Numerical Table of Identities of Stations Used by the Maritime Mobile Service and Maritime Mobile-Satellite Service (Coast, Coast Earth, Ship, Ship Earth, Radiodetermination and Special Service Stations), Ship and Ship Earth Stations Maritime Mobile Service Identities and Selective Call Numbers or Signals, and Coast and Coast Earth Stations Maritime Mobile Service Identities and Identification Numbers or Signals (List VIIA);
- 5. a list of selected coast stations and coast earth stations in accordance with Nos. N 3038 and N 3038B of the Radio Regulations; a list of coast stations and coast earth stations with which communications are likely to be conducted, showing watchkeeping hours, frequencies and charges; and a list of coast stations which provide navigational and meteorological warnings and urgent information for ships;
- the List of Ship Stations (the carriage of the supplement is optional);
- 7. the Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services.

 \underline{Note} - Administrations may exempt ships sailing only within range of VHF coast stations from the carriage of the documents mentioned in paragraphs 4 and 7 above.

WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

Document DT/21-E 21 September 1987 Original: English

WORKING GROUP 6-A

DRAFT REPORT OF THE CHAIRMAN OF WORKING GROUP 6-A TO THE CHAIRMAN OF COMMITTEE 6

1. Working Group 6-A has held five meetings between 15 September and 21 September. Our work programme was divided into three sub-categories as follows:

> Items for which no change was proposed, and items for non-controversial modification or items for which all proposals were the same. Then items for which another committee will require the comments from Committee 6 were considered. Finally controversial items for which a significant amount of time is anticipated for discussion and all other items were taken

The Working Group thus far has completed its review and recommends NOC for the following items:

Articles 19, 54, 57 and Appendices 12 and 14.

Resolution No. 308 and Recommendation No. 313 were then review and the Working Group recommends that they both be suppressed.

Minor modification to Appendix 14 (see annex) were proposed by China and supported by the Working Group. The additions to this appendix for using the abbreviation RCC may need to be brought to the attention of Committee 5 for their use in developing proposals for Article 1.

The Working Group also has given preliminary consideration to 2. Article 66, and to Resolution No. 315 and expects to complete its review when it is next considered by the Working Group. Additionally we have given initial consideration to Article 26, Appendix 9 and Appendix 11. A Drafting Group has been formed and has completed a revision for consideration at our meeting on Tuesday, 22 September. However, Cuba requested the group to defer consideration of Article 26 until their document was available.

The Working Group began consideration of Article 59 and decided on the 3. basic structure. Further consideration will be given with regard to the need for a new section dealing with the use of stations aboard ships and the consequential suppression of Resolution No. 315 (not on our agenda). Some members believed that in lieu of a new section of the Radio Regulations, modifications to Resolution No. 315 should be made.

The Working Group began a general discussion on Monday morning 4. concerning a proposal for France to the Technical Working Group to the Plenary to permit automatic stations not using DSC in the VHF-FM bands to emit low power marking signals and two proposals from USA concerning limiting power by

automatic means on VHF channel 13. Neither of these could be fully considered until a later meeting. The Working Group will attempt to resolve these items as a matter of priority so as to permit the Technical Working Group to continue its work.

On Monday morning also, the Working Group began a complicated general discussion of Articles 56 and 55. Before proceeding further, the Working Group may require some time for compromises to emerge. As expected, two basic themes were suggested, one requiring technical certificates associated with repair and maintenance functions while the majority of speakers believed that only operator certificates were appropriate for the Radio Regulations. Maintenance functions are still a subject of some controversy within IMO and no specific requirements have been agreed there to date, although there has been agreement that a flexible approach to maintenance should be used in the GMDSS.

R. SWANSON Chairman of Working Group 6-A

Document DT/22-E 22 September 1987 Original: English

WORKING GROUP 4-A

DRAFT

THIRD REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

1. In addition to the items listed in the first report (Document 147), Working Group 4-A approved the following proposals concerning Article 8:

- 1.1 to modify RR 451;
- 1.2 to modify RR 489;
- 1.3 to modify RR 517 and to ADD RR 529A;
- 1.4 to modify RR 554 (by adding CTI, IRL and E to the list of countries already appearing in that footnote);
- 1.5 to modify RR 587 (by adding TUR) and to modify RR 589 (by deleting TUR);
- 1.6 to ADD RR 594A;
- 1.7 to ADD RR 627A (national footnote for CAN, LAND MOBILE in the band 216 220 MHz);
- 1.8 to modify RR 621 (by adding E);
- 1.9 to modify RR 680 and to ADD RR 695A;
- 1.10 To SUP RR 681.

The approved modifications are contained in Annex 1 to this report.

2. The Working Group decided neither to change the Table of Frequency Allocation for the bands:

74.8 - 75.2 MHz 108 - 117.975 MHz 328.6 - 335.4 MHz

nor to proceed to a draft Recommendation concerning the future allocation of these bands.

In this connection several delegations reserved their right to revert to this matter at Committee 4 level. 3. The Working Group decided not to change the Table of Frequency Allocation in the band 136 - 137 MHz. A modification to RR 595 is still under consideration.

4. It is to be noted that the Working Group postponed the consideration of the items linked to the GMDSS. In this connection the Working Group members felt that an appropriate Editorial Group of Working Group 4-A should be established to deal with the consequential changes to be made in Article 8, on the basis of the decision to be taken by Committee 5.

> J. KARJALAINEN Chairman of Working Group 4-A

Annex: 1

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ANNEX

MOD 451 In the bands 70 - 90 kHz (70 - 86 kHz in Region 1) and 110 - 130 kHz (112 - 130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.

kHz 1 800 - 2 000

		Allocation to Services	
	Region 1	Region 2	Region 3
OD	1 800 - 1 810 (NOC)	1 800 - 1 850	1 800 - 2 000 (NOC)
	RADIOLOCATION 487	AMATEUR	AMATEUR
	485 486		FIXED MOBILE except aeronautical mobile
	1 810 - 1 850 (NOC)		RADIONAVIGATION
	AMATEUR		Radiolocation
	490 491 492 493	489	
DD	1 850 - 2 000 (NOC)	1 859 - 2 000	
	FIXED	AMATEUR	
	MOBILE except aeronautical	FIXED	
	mobile	MOBILE except aeronautical mobile	
		RADIOLOCATION	
		RADIONAVIGATION	
	484 488 495	489- 494	489

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MOD 489 In Region 2, - Loran-stations-operating-in-the-band 1 000---2-000-kHz shall-cease operation by 31 December 1982. In Region 3, the Loran system operates either on 1 850 kHz or 1 950 kHz, the bands occupied being 1 825 - 1 875 kHz and 1 925 - 1 975 kHz respectively. Other services to which the band 1 800 - 2 000 kHz is allocated may use any frequency therein on condition that no harmful interference is caused to the Loran system operating on 1 850 kHz or 1 950 kHz. The use of the band 4 000 - 4 063 kHz by the Maritime MOD 517 Mobile Service is limited to ship stations using radiotelephony (see No. 4374 and [Appendix 16]). ADD 529A For the use of the band 8 100 - 8 195 kHz by the Maritime Mobile Service see RR 4373, RR 43744 and [Appendix 16]. (Note for Editorial Committee - This footnote is to be added, in the Table, in the continuation of MARITIME MOBILE 529A). (By adding CTI, E and IRL.) MOD 554 (By adding TUR.) MOD 587 MOD (By deleting TUR.) 589 ADD 594A Additional allocation: In Poland and in the USSR, the band 136 - 137 MHz is also allocated to the Aeronautical Mobile (OR) Service on a permitted basis. (By adding E.) MOD 621 Additional allocation: In Canada, the band ADD 627A 216 - 220 MHz is also allocated to the Land Mobile Service on a primary base. MOD 680 Additional allocation: In the United Kingdom, the band 598 - 606 MHz is also allocated to the Aeronautical Radionavigation Service on a primary basis until 31 December 1994. (The remainder unchanged.) SUP 681 ADD 695A Additional allocation: In the United Kingdom, the band 790 - 862 MHz is also allocated to the Land Mobile Service on a secondary basis.

NOB-87 INTERINGTION THE MOBILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

Document DT/23-E 22 September 1987 Original: French

WORKING GROUP 6-A

DRAFT

MARKING SIGNALS IN THE MARITIME MOBILE SERVICE

(Proposals F/48/1 to 3)

At its meeting on 21 September 1987, Working Group 6-A requested the French and Netherlands Administrations to put forward an amended version of proposals F/48/1 to 3 by France.

In line with the discussions which took place, the text we are submitting now makes it clear that the HF bands are not concerned and that other maritime mobile service stations must not be adversely affected.

Proposals

NOC 4326

ADD 4326A However, stations in an automatic service in the VHF or UHF band may emit marking signals. The emission power of the signals shall however be limited to the minimum value necessary for effective operation of the signalling. Such emissions shall not cause harmful interference to maritime mobile service operations in other countries.

MOD 4910

(Add the following sentence after the existing text)

However, stations in an automatic service in the VHF or UHF band may emit marking signals under the conditions provided for in No. 4326A.

> R. SWANSON Chairman of Working Group 6-A



NOB-87 INTERINATIONAL TELECOMMUNICATIONAL TELE

Document DT/24-E 22 September 1987 Original: English

COMMITTEE 5

Note by the Chairman of Committee 5

THE INTRODUCTION OF THE GMDSS AND CONTINUATION OF EXISTING DISTRESS AND SAFETY PROVISIONS

Taking account of the various proposals concerning a Resolution, relating to the introduction of provisions for the GMDSS and the continuation of existing provisions, and the views expressed at the second meeting of the Committee, a draft Resolution has been prepared as a working document for the Committee. The draft Resolution is given in the annex to this document.

> P.E. KENT Chairman of Committee 5

DRAFT

RESOLUTION [COM5/1]

Relating to the Introduction of Provisions for the Global Maritime Distress and Safety System (GMDSS) and the Continuation of the Existing Distress and Safety Provisions

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

noting

that the International Maritime Organization (IMO) has developed the GMDSS and is preparing revisions to the International Convention for the Safety of Life at Sea (SOLAS) 1974, to require certain ships to participate in the system;

noting further

a) that until such time as the GMDSS has been implemented fully, ships subject to the SOLAS Convention will continue to use some of the existing distress and safety provisions;

b) that some administrations and some ships not governed by the SOLAS Convention may continue to use the existing radiotelephone distress and safety provisions after the GMDSS has been implemented fully;

c) that it would be inappropriate to require administrations to maintain all existing distress and safety facilities and those for the GMDSS for an excessive period of time;

considering

a) that this Conference has placed the provisions for the GMDSS in [Chapter N IX] and that Chapter [IX] has been modified so that it retains the provisions that will not form part of the GMDSS;

b) that Chapters N IX and IX each contain provisions relating to distress and safety which are mandatory under the conditions given in the various provisions;

c) that the World Administrative Radio Conference for the Mobile Services, Geneva, 1983, recognized that the provisions then existing for distress and safety communications would need to be maintained until the GMDSS had been implemented fully;

recognizing

a) that IMO is the organization competent to decide upon the dates that the provisions relating to the GMDSS shall be used by ships subject to the SOLAS Convention, and that:

- the implementation of the GMDSS shall be considered as started when, in accordance with amendments to the SOLAS Convention, the first of the ships subject to that Convention conforms to Chapter N IX;
- ii) the GMDSS shall be considered to be implemented fully when all ships subject to the SOLAS Convention conform to Chapter N IX;

b) that to assist the IMO, the provisions of Chapter N IX should enter into force prior to the earliest date on which the amendments to the SOLAS Convention might start the implementation of the GMDSS;

resolves

1. that Chapter N IX shall enter into force on [15 January, 1991];

2. that during the period between [15 January, 1991] and a date after the GMDSS has been implemented fully, the provisions of Chapters N IX and IX shall have equal force and each administration may if necessary, decide on its own transition arrangements;

3. that on a date after the GMDSS has been implemented fully:

- a) the provisions of Chapter N IX and Chapter IX, except for Nos. 3037 to 3046E, shall have equal force until they are further considered by a competent conference;
- b) the provisions of Chapter IX, Nos. 3037 to 3046E shall become permissive and may be used at the discretion of administrations in respect of their own station;
- 4. the date referred to in resolves 2 and 3 and shall be:

(Option A) [1 February, 1997];

- (Option B) [the date decided by the competent body of the IMO for full implementation of the GMDSS;]
- (Option C) [a date determined by the Administrative Council at its first meeting after the decision by the competent body of the IMO on the full implementation the GMDSS. The date to be not less that [six] years after the provisions of Chapter N IX enter into force and not later than [six] months after the date decided by the IMO for the system to be implemented fully;]

invites

1. the Administrative Council to place the subject of Chapter IX on the agenda of the next competent conference;

2. the next competent conference to take appropriate steps regarding the requirement for administrations to comply with the provisions of Chapter IX relating to the international distress frequencies 2 182 kHz and 156.8 MHz;

requests the Secretary-General

to communicate this Resolution to IMO and the International Civil Aviation Organization (ICAO).

Document DT/25-E 22 September 1987 Original: English

WORKING GROUP 6-A

NOTE BY THE CHAIRMAN OF WORKING GROUP 6-A

In order to assist Working Group 6-A, attached is a consolidated document concerning proposals on Article 58.

R. SWANSON Chairman of Working Group 6-A

Attachment: 1

- 2 -MOB-87/DT/25-E

ARTICLE 58

Working Hours of Stations in the Maritime Mobile Service

ARTICLE 58

J/60/479

MOD

Working Hours of Stations in the Maritime Mobile Service and Maritime Mobile-Satellite Service

<u>Reason:</u> To provide for the working hours of stations in the Maritime Mobile-satellite service, similar to Maritime Mobile service.

Section I. General

J/60/480

MOD 4044 1. In order to permit the application of the following rules on the subject of hours of watch, every station of the maritime mobile service <u>and the maritime</u> <u>mobile-satellite service</u> shall have an accurate clock correctly regulated to Coordinated Universal Time (UTC).

> <u>Reason:</u> To obligate stations of the maritime mobile-satellite service to be provide with clocks, similar to stations of the maritime mobile service.

NOC 4045 § 2. Coordinated Universal Time (UTC), reckoned from 0000 to 2359 h beginning at midnight, shall be used for all entries in the radiocommunication service log and in all similar documents of ships compulsorily equipped with radiocommunication apparatus in compliance with an international agreement; this same provision will apply, as far as possible, to other ships.

Section II. Coast Stations

NOC 4046 § 3. (1) The service of coast stations is, as far as possible, continuous (day and night). Certain coast stations, however, may have a service of limited duration. Each administration or recognized private operating agency duly authorized to that effect fixes the hours of service for coast stations under its jurisdiction. NOC 4047 (2) These hours of service shall be notified to the Secretary-General who shall publish them in the List of Coast Stations. NOC 4048 84. Coast stations whose service is not continuous shall not close before: NOC 4049 finishing all operations resulting from a distress call or a) from an urgency or safety signal; NOC 4050 exchanging all traffic originating in or destined for ship b) stations which are situated within their service area and have indicated their presence before the actual cessation of work: NOC 4051 c) making a general call to all stations announcing the closing down of the service and advising the time of

reopening, if other than their normal hours of service.

J/60/481.		
ADD		Section IIA. Coast Earth Stations
J/60/482		
ADD	4051A	4A. The service of coast earth stations is, as far as possible, continuous (day and night).
		<u>Reason:</u> To specify the working hours of coast earth stations.
		Section III. Ship Stations
NOC	4052	§ 5. (1) For the international public correspondence service, ship sta- tions are divided into four categories:
NOC	4053	a) stations of the first category: these stations maintain a continuous service;
NOC	4054	b) stations of the second category: these stations maintain a service for 16 hours a day;
NOC	4055	c) stations of the third category: these stations maintain a service for 8 hours a day;
NOC	4056	 stations of the fourth category: these stations maintain a service the duration of which is either shorter than that of stations of the third category, or is not fixed by these Regulations.
NOC	4057	(2) Each administration shall itself determine the rules under which ship stations subject to it are to be placed in one of the above four categories.
NOC	4058	§ 6. (1) Ship stations of the second category shall maintain the fol- lowing hours of service:
		0000 - 0400]
		0800 - 1200 1600 - 1800 2000 - 2200
		and, additionally, four hours of service at times to be decided by the administration, master or responsible person, to meet the essential communication needs of the ship, having regard to propagation condi- tions and traffic requirements.
NOC	4059	(2) Ship stations of the third category shall maintain the fol- lowing hours of service:
		0800 - 1200 ship's time or zone time,
		two continuous hours of service between 1800 and 2200 h, ship's time or zone time, at times decided by the administration, master or respon- sible person and, additionally, two hours of service at times decided by the administration, master or responsible person, to meet the essential communication needs of the ship, having regard to propagation condi- tions and traffic requirements.
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	NOC	4060		its s	idministration will determine whether ship's time hips is to be zone time as shown in Appendix 12 (see 59).
	NOC	4061			of short voyages, these stations shall provide service fixed by the administrations to which they are subject.
	NOC	4062			ations of the fourth category are encouraged to pro- 0830 to 0930 h, ship's time or zone time.
	NOC	4063	§8. (1) Shi before:	ip sta	ations whose service is not continuous shall not close
	NOC	4064	a)		nishing all operations resulting from a distress call or on an urgency or safety signal;
	NOC	4065	b)	in se th	schanging, so far as practicable, all traffic originating or destined for coast stations situated within their ervice area and for ship stations which, being within heir service area, have indicated their presence before actual cessation of work.
;	NOC	4066	the coast sta	ition	ip station not having fixed working hours shall inform s with which it is in communication of the time of me of reopening its service.
	NOC	4067	§ 9. (1) An fore about to		ip station arriving in port, and whose service is there-
	NOC	4068	a)	aj	otify accordingly the nearest coast station and, if opropriate, the other coast stations with which it gen- ally communicates;
	NOC	4069	b)	u	ot close until after the disposal of traffic on hand, nless this conflicts with the regulations in force in the puntry of the port of call.
	NOC	4070	station or sta such reopeni of the port of service fixe	ation ing i of d ed b	arture from port the ship station shall notify the coast as concerned that its service is reopening as soon as s permitted by the regulations in force in the country eparture. However, a ship station not having hours y these Regulations may defer such notification until opens its service after departure from port.
J/60/483	3 i				
	ADD		Sect	ion	IV. Ship Earth Stations
J/60/484	•				
	ADD	4071	regulation	is r	ministration shall itself make the elating to the working hours of ship earth r its jurisdiction.
			<u>Reason:</u> T stations.	'o p	rescribe the working hours of ship earth
	NOC	4071 to 4095	NOT allocated	i.	



NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

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WORKING GROUP 6-A

NOTE BY THE CHAIRMAN OF WORKING GROUP 6-A

In order to assist Working Group 6-A, attached is a consolidated document concerning proposals on Article 59.

> R. SWANSON Chairman of Working Group 6-A

Attachment: 1

- 2 -MOB-87/DT/26-E

ARTICLE 59

NOC		Conditions to Be Observed in the Maritime Mobile Service and in the Maritime Mobile-Satellite Service
NOC		Section I. Maritime Mobile Service
NOC	4096	A. General
NOC	4097	§ 1. Ship stations shall be established in such a way as to conform to the provisions of Chapters III and XI as regards frequencies and classes of emission.
NOC	4098	§ 2. The frequencies of emission of ship stations shall be checked as often as possible by the inspection service to which these stations are subject.
NOC	4099	§ 3. The energy radiated by receiving apparatus shall be reduced to the lowest possible value and shall not cause harmful interference to other stations.
NOC	4100	§ 4. Administrations shall take all practicable steps neces- sary to ensure that the operation of any electrical or electronic apparatus installed in ship stations does not cause harmful inter- ference to the essential radio services of stations which are operating in accordance with the provisions of these Regulations.
NOC	4101	§ 5. (1) Changes of frequency in the sending and receiving apparatus of any ship station shall be capable of being made as rapidly as possible.
NOC	4102	(2) Installations of any ship station shall be capable, once communication is established, of changing from transmission to reception and vice versa in as short a time as possible.
NOC	4103	§ 6. The operation of a broadcasting service (see No. 36) by a ship station at sea is prohibited. (See also No. 2665.)
J/60/4851		
MOD	4104	7. Ship stations other than survival craft station and <u>ship earth stations</u> shall be provided with the documents enumerated in the appropriate section of Appendix 11.

<u>Reason:</u> To obligate ship earth stations to provide with certain documents.

NOC

4105 § 8. When any ship station transmitter itself cannot be controlled in such a way that its frequency satisfies the tolerance specified in Appendix 7, the ship station shall be provided with a device, having a precision equal to at least one-half of this tolerance, for measuring the frequency of the emission.

- 3 -MOB-87/DT/26-E

G/33/61 MO I	o 410	6	B. Ship Stations Using Morse Radiotelegraphy
		•	Reason: To indicate that Nos 4107-4121 apply to Morse tele- graphy.
J/60/486			
	MOD	4106	B. Ship Stations Using Morse Radiotelegraphy
	NOC	4107	§ 9. Ship stations equipped with radiotelegraph apparatus intended to be used for normal traffic by Morse telegraphy shall be provided with devices permitting changeover from transmission to reception and vice versa without manual switching. In addition these stations should be able to listen on the reception frequency during the course of periods of transmission.
	NOC	4108 Mob-83	B1. Bands Between 415 kHz and 535 kHz
	NOC		§ 10. Transmitters used in ship stations working in the auth- orized bands between 415 kHz and 535 kHz shall be provided with devices readily permitting a material reduction of power.
G/33/62 Mod	4110	` a 5 _ <u>R</u>	11. All ship stations equipped with <u>Morse</u> radiotelegraph apparatus to work in the authorized bands between 415 kHz and 335 kHz shall be able to: Reason: To indicate that this provision applies only to Morse selegraphy.
J/60/487			יב ובא ניפהווא •
	MOD	4110	11. All ship stations equipped with <u>Morse</u> radiotelegraph apparatus to work in the authorized bands betwen 415 kHz and 535 kHz shall be able to:
	NOC	4111	 a) send either class A2A and A2B* or H2A and H2B* emissions and receive class A2A, A2B*, H2A and H2B* emissions with a carrier frequency of 500 kHz;
G/33/63	MOD	4112	b) send, in addition, class A1A emissions on at-teast two working frequencies <u>necessary for their service</u> ;
			<u>Reason</u> : To extend the scope of this provision.
	NOC	4113 Mob-83	c) receive, in addition, class A1A emissions on all the other frequencies necessary for their service.
			t This is an even for the outomatic recention of the radiatele.

* This is to cater for the automatic reception of the radiotele-graph alarm signal.

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	NOC	4114	§ 12. The provisions of Nos. 4112 and 4113 do not apply to apparatus provided solely for distress, urgency and safety purposes.
	NOC	4115	B2. Bands Between 1 605 kHz and 2 850 kHz
G/33/64 MOD	4116		13. In Region 2, any <u>Horse</u> radiotelegraph 285D kHz.
			<u>Reason</u> : As for MOD 4110.
J/60/48	8		
	MOD	4116	13. In Region 2, any Morse radiotelegraph station
			installed on board a ship which uses frequencies in the band 2089.5 - 2092.5 kHz for call and reply shall be
			provided with at least one other frequency in the authorized bands between 1605 kHz and 2850 kHz.
	NOC	4117	B3. Bands Between 4 000 kHz and 27 500 kHz
G/33/65 Mod	4118		14. In ship stations, all apparatus using class A1A emissions for Morse telegraphy on frequencies in the authorized bands between 4000 kHz and 27500 kHz shall satisfy the following conditions:
			Reason: As for MOD 4110.
:	NOC	4119	a) in each of the bands necessary to carry on the station's service, it shall have at least two working frequencies in addition to one in the calling band (see No. 4306);
	NOC	4120	 b) changes of frequency in transmitting apparatus shall be effected as quickly as practicable, but within fifteen seconds in any event;
	NOC	4121	c) in the matter of frequency changing, receiving apparatus shall be capable of a performance equal to that of the transmitting apparatus.

DNK/FNL/ISL/NOR/S/8/1

MOD 4122

C. Ship Stations Using Narrow-Band Direct-Printing Telegraphy and Digital Selective Calling

<u>Reasons</u>: Consequential to ADD 4137A, proposing inclusion of a new subsection E concerning ship stations using digital selective-calling techniques.

E/42/1 1_{MOD} 4122 C. Ship Stations Using Narrow-Band Direct-Printing Telegraphy and Digital Scleetive Calling Reasons: Consequential to ADD 4137B, proposing the inclusion of a new subsection "E" concerning ship stations using digital selective calling techniques. J/60/489 C. Ship Stations Using Narrow Band Direct Printing. MOD 4122 Telegraphy and Digital Selective Calling CAN/25/376 * ADD 4122A All ship stations using narrow-band direct-printing telegraphy equipment shall be able to send and receive on the frequency designated for distress traffic by narrow-band direct-printing telegraphy in the frequency bands in which they are operating. CEPT-11/18/1* All ship stations using narrow-band direct-printing ADD 4122A 14A. telegraphy equipment shall be able to send and receive on the frequency designated for distress traffic by narrow-band directprinting telegraphy in the frequency bands in which they are operating. J/60/490 4122A 15. (1) (2)- The characteristics of the digital MOD 4123A selective calling equipment shall should be in accordance with Appendix 39A the Recommendations of the -CCIR-Reason: To specify the characteristics of the digital selective calling equipment. USA/24/551 4122A ADD 15. (1) All ship stations using narrow-band direct-printing telegraphy equipment shall be able to, send and receive on the frequency designated for distress traffic by narrow-band direct-printing telegraphy in the frequency bands in which they are operating.

¹ This proposal does not conflict with Spain's endorsement of the proposal contained in Document CEPT-11, published as Conference Document MOB-87/18, since the intention - subject to the approval of the Conference - is to gather "digital selective calling" procedures into a new sub-section ("E") of Article 59.

- 6 -MOB-87/DT/26-E

J/60/491	
ADD 4	122B (2) All ship stations using digital selective calling equipment shall be able to send and receive class FIB or J2B emission of digital selective calling signals on the frequencies used for distress alerting and all other DSC frequencies necessary for their service in the frequency bands in which they are operating.
	<u>Reason:</u> To specify the radio waves which must be equipped by ship stations using digital selective calling equipment.
J/60/492	
ADD 4	122C CA. Ship Stations Using Narrow Band Direct- Printing Telegraphy
J/60/493	
(DOM)	123 15 <u>A</u> . (1) The characteristic of the narrow-band direct-printing equipment shall be in accordance with Appendix 38.
USA/24/ (MC	552 DD) 4123 15. (1) <u>(2)</u> The characteristics of the narrow-band direct-printing equipment shall be in accord- ance with Appendix 38.
DNK/FNL/ISL/NOR/S/8 SUP 4123A	Mob-83 ment should be in accordance with the Recommendations of the CCIR.
<u>Reasons</u> : S	ee No. 4137B.
E/42/2 1 _{SU}	P 4123A
	<u>Reasons</u> : The text of 4123A is transferred unchanged to the proposed new sub-section "E". See ADD 4137C.
USA/24/553 ADD	4123A (3) All ship stations equipped with digital selective calling equipment shall be able to send and receive digital selective calling signals on the frequency designated for distress alerting (see No. N 3172) in the frequency bands in which they are operating.

* ADD	4123B*) All ship stations equipped with digital selective calling equipment shall be able to send and receive digital selective calling signals on the frequency designated for distress alerting (see No. N 3172) in the frequency bands in which they are operating.
NOC	4123A
• .	<u>Reason</u> : To specify the requirement for ship stations, if appropriatel equipped, to be able to use the frequencies set aside for distress purposes. (Re-numbering of Nos. 4123B*) and 4123A will need to be considered by the Conference.)

CEPT-11/18/2

ADD 4123B

(2A) All ship stations equipped with digital selective-calling equipment shall be able to send and receive digital selective-calling signals on the frequency designated for distress alerting (see No. N3172) in the frequency bands in which they are operating.

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<u>Reasons</u>: ADD 4122A and 4123B - to specify the requirement for ship stations, if appropriately equipped, to be able to use the frequencies designated for distress purposes.

J/e	50/4	94
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ADD 4123B

(2) All ship stations using narrow-band direct-printing telegraphy equipment shall be able to send and receive class FlB or J2B emission on the frequencies used for distress and safety traffic and all other frequencies necessary fot their service in the frequency bands in which they are operating.

· · · · · · · · · · ·

<u>Reason:</u> To specify the radio waves which must be equipped by ship stations using narrow-band direct-printing telegraphy equipment.

URS/32/81

ADD 4123B The conditions governing the use of frequencies for narrow-band direct-printing and digital selective calling are laid down in Articles 60 and 62.

<u>Reasons</u>: It is necessary to specify where the conditions to be respected may be found for the use of NBDP and DSC in the maritime mobile service.

USA/24/554 (MOD)

4123A 4123B (2) (4) The characteristics of the digital selective calling equipment should be in accordance with the Recommendations of the CCIR.

<u>Reason</u>: To specify the requirement for ship stations, if appropriately equipped, to be able to use the frequencies set aside for distress purposes. - 8 -MOB-87/DT/26-E

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G/33/66		
ADD G/33/67	41230	C1. Bands Between 415 kHz and 535 kHz
ADD	4123E	15A. All ship stations equipped with narrow-band direct- printing telegraphy apparatus to work in the authorized bands between 415 kHz and 535 kHz shall be able to:
	4123F	 a) send and receive class F1B or J2B emissions on the working frequencies necessary to carry out their service;
	4123G	b) if complying with the provisions of Chapter NIX, receive class F1B emissions on 518 kHz.
	4123h	15B. All ship stations equipped with digital selective calling apparatus to work in the authorized bands between 415 kHz and 535 kHz shall be able to:
	41231	 a) send class F1B or J2B emissions on the international digital selective calling frequency 458.5 kHz and receive class F1B or J2B emissions on the international digital selective calling frequency 455.5 kHz;
G/33/72 Add	4123J	b) in addition, send and receive class F1B or J2B emissions on other digital selective calling freq- uencies in this band as necessary to carry out their service.
G/33/73 Add	4 1 23K	C2. Bands Between 1605 kHz and 4000 kHz
G/33/74 Add	4123L	15C. In addition to the requirements specified in No. 4123A, all ship stations equipped with narrow-band direct-printing telegraphy apparatus to work in the authorized bands between 1605 kHz and 4000 kHz shall be able to send and receive class F1B or J2B emissions on working frequencies as necessary to carry out their service.
G/33/75 ADD	4123M	15D. In addition to the requirements specified in No. 4123C, all ship stations equipped with digital selective calling apparatus to work in the authorized bands between 1605 kHz and 4000 kHz shall be able to:
G/33/76 Add	41 2 3 Ņ	 a) send class F1B or J2B emissions on the international digital selective calling frequency 2189.5 kHz and receive class F1B or J2B emissions on the international digital selective calling frequency 2177 kHz;
G/33/77 Add	41230	 b) in addition, send and receive class F18 or J2B emissions on other digital selective calling freq- uencies in this band as necessary to carry out their service.

- 9 -MOB-87/DT/26-E

G/33/78 ADD	4123P	C3. Bands Between 4000 kHz and 27500 kHz.
G/33/79 Add	41230	15E. In addition to the requirements specified in No. 4123A, all ship stations equipped with narrow-band direct-printing telegraphy apparatus to work in the authorized bands betwee 4000 kHz and 27500 kHz shall be able to send and receive
	nga tang na aga tang tang tang tang tang tang tang tang	class F1B or J2B emissions on working frequencies in each of the HF maritime mobile bands as necessary to carry out their service
	4123R	15F. In addition to the requirements specified in No. 4123C, all ship stations equipped with digital selective calling apparatus to work in the authorized bands between 4000 kHz and 27500 kHz shall be able to:
G/33/81 ADD	4123s	a) send class F1B or J2B emissions on the international digital selective calling frequencies in each of the HF maritime mobile bands as necessary to carry out their service;
G/33/82 ADD		 b) receive class F1B or J2B emissions on the internation: digital selective calling frequencies in each of the HF maritime mobile bands as necessary to carry out their service;
G/33/83 Add	41230	c) send and receive class F1B or J2B emissions on other digital selective calling frequencies in each of the HF maritime mobile bands as necessary to carry out their service.
• .		<u>Reason</u> : ADD 4123D-ADD 4123U. To specify the necessary provisions for NBDP and DSC in the bands 415-535 kHz, 1605- 4000 kHz and 4000-27500 kHz.
NOC	4124	D. Ship Stations Using Radiotelephony
	-	

J/60/495

ADD 4124A D1 Ship Stations equipped with Radiotelephony apparatus used with Relation to Digital Selective Calling System

J/60/496

ADD 4124B	15B. (1) All ship stations equipped with
and a start of the second s	selective calling system shall be able to send and receive on frequencies for distress and safety traffic and all other frequencies necessary for their service
	in the frequency bands in which they are operating.
in the strategy and	Reason: To spcify the radio waves which must be

<u>Reason:</u> To spcify the radio waves which must be equipped by ship stations using radiotelephony in relation to digital selective calling.

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J/60/497				•
A	DD	4124C	(2) Ship stations, when using the carrier frequency 2182 kHz, shall be able to send and receive class J3E emission on this frequency.	2.* *
J/60/498				
Α	DD	4124D	D2. Ship Station equipped with Radiotelephony appratus used without Relation to Digital Selective Calling System	
J/60/499 ·				·.
(M	(dol	4125	<u>A)</u> D1 Bands Between 1605 kHz and 4000 kHz	, -
J/60/500				
м	OD	4126	16. All ship stations equipped with radiotelephony apparatus <u>used without relation to digital selective</u> <u>calling system to work</u> in the authorized bands between 1605 kHz and 2850 kHz shall be able to: <u>Reason:</u> To rearrange the provision on the traditional	
			manual operated radiotelephony, because of prescribing the regulation No. 4124A.	
CAN/25/378 MOD		4127	 a) send class <u>J3E</u> and H3E emissions on a carrier frequency 2182 kHz and receive class <u>J3E</u> and H3E emissions on a carrier frequency of 2182 kHz except for such apparatus is referred to in No. 4130; 	
		<u>Reason:</u> N 2973.	To take account of the provisions proposed in Nos. 2973 and	1

CEPT-11/18/3 MOD 4127

 a) send class <u>J3E or</u> H3E emissions on a carrier frequency of 2 182 kHz and receive class <u>J3E or</u> H3E emissions on a carrier frequency of 2 182 kHz except for such apparatus as is referred to in No. 4130 (see also Resolution No. A);

<u>Reasons</u>: To take account of the provisions proposed in Nos. 2973 and N2973 and Resolution No. A.

USA/24/555 MOD

4127

 a) send class <u>J3E or</u> H3E emissions on a carrier frequency of 2182 kHz and receive class <u>J3E</u> <u>or</u> H3E emissions on a carrier frequency of 2182 kHz except for such apparatus as is referred to in No. 4130 <u>(see also</u> <u>Resolution No. A8)</u>;

<u>Reason</u>: To take account of the provisions proposed in Nos. 2973 and N 2973, and Resolution No. A8.

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NOC	4128 Mob-83	b) send, in addition, J3E emissions on at least two working frequencies ¹;
NOC	4129 Mob-83	c) receive, in addition, J3E emissions on all other frequencies necessary for their service.
NOC	4130 § 17. apparatus	The provisions of Nos. 4128 and 4129 do not apply to provided solely for distress, urgency and safety pur

CEPT-11/18/4 MOD 4131

D2. Bands Between 4 000 kHz and 23 000 27 500 kHz

Reasons: To indicate the correct upper limit of the band.

J/60/501

MOD

B) D2 Bands Between 4000 kHz and 27500 23000 kHz 4131

CAN/25/379

MOD 4132

poses.

In the zone of Region 1 south of latitude 15°N, in Region 2 (except Greenland) and in the zone of Region 3 South of latitude 25°N, all ship stations equipped with radiotelephony to work in the authorized bands between 4000 kHz and 23000 kHz and which do not comply with the provisions of Chapter N IX should be able to send and receive on the carrier frequencies 4 125 kHz and 6215.5 6215 kHz (see Nos. 2982 and 2986). However, all ship stations which comply with the provision of Chapter N IX shall be able to send and receive on the carrier frequencies designated in Article N 38 for distress and safety traffic by radiotelephony for the frequency bands in which they are operating.

To expand the application of this regulation to apply to ships Reason: throughout the world which comply with provisions for the new system.

CEPT-11/18/5 MOD 4132

In the zone of Region 1 south of latitude 15°N, in 18. Region 2 (except Greenland) and in the zone of Region 3 south of latitude 25°N, all ship stations equipped with radiotelephony to work in the authorized bands between 4 000 kHz and 23 000 27 500 kHz and which do not comply with the provisions of Chapter NIX should be able to send and receive on the carrier frequencies 4 125 kHz and 6 215 kHz (see Nos. 2982 and 2986). However, all ship stations which comply with the provisions of Chapter NIX shall be able to send and receive on the carrier frequencies designated in Article N38 for distress and safety traffic by radiotelephony for the frequency bands in which they are operating.

Reasons: To expand the application of this regulation to apply to ships throughout the world which comply with the provisions for automated communications. MOD to 23 000 kHz to reflect the correct upper limit of the band.

J/60/502

MOD 4132 18. In the zone of Region 1 south of latitude 15°N, in Region 2 (except Greenland) and in the zone of Region 3 south of Latitude 25°N, all ship stations equipped with radiotelephony used without relation to digital selective calling system to work in the authorized bands between 4000 kHz and 27500 23000 kHz should be able to send and receive on the carrier frequencies 4125 kHz and 6215 6215.5-kHz (see Nos. 2982 and 2986).

Reason: See No. 4126

USA/24/556

MOD

4132 In-the-zone-of-Region-1-south-of-latitude- 15° -N, in-Region-2-(except Greenland)-and-in-the-zone-of-Region-3 south-of-latitude-25--N,-all All ship stations equipped with radiotelephony to work in the authorized bands between 4000 kHz and 23000 kHz and which do not comply with the provisions of Chapter N IX should be able to send and receive on the carrier frequencies 4125 kHz and 6215-5 kHz (see Nos. 2982 and 2986). However, all ship stations which comply with the provisions of Chapter N IX shall be able to send and receive on the carrier frequencies designated in Article N 38 for distress and safety traffic by radiotelephony for the frequency bands in which they are operating.

<u>Reason</u>: To expand the application of this Regulation to apply to ships throughout the world which comply with provisions for the new system.

J/60/503

(MOD) 4133 C) D3 Bands Between 156 MHz and 174 MHz

J/60/504

MOD 4134 19. All ship stations equipped with radiotelephony used without relation to digital selective calling system to work in the authorized bands between 156 MHz and 174 MHz (see No. 613 and Appendix 18) shall be able to send and receive class G3E emissions (see Resolution -398) on:

Reason: See No. 4126

NOC	4135	a)	the distress, 156.8 MHz;	safety and	calling	frequency	
NOC	4136	b)	ership frequenc	quency 156.3 MHz;			
J/60/505			· · ·				

ADD 4136A

ADD 4136A (C) The Intership Navigation Safety Frequency 156.650 MHz

the intership navigation safety frequency ADD 4136A C) 156.650 MHz; J/60/506 (MOD) 4137 (d) (o) All the frequencies necessary for their service. USA/24/558 d) all the frequencies necessary for their (MOD) 4137 e} service. <u>Reason</u>: To allow vessels to communicate on the bridgeto-bridge navigation safety channel 13. CAN/25/380 *ADD 4137A In addition to the frequencies specified in Nos. 4135 to 4137, all ship stations complying with the provisions of chapter N IX and equipped with radiotelephony to work in the authorized bands between 156 MHz and 174 MHz (see No. 613 and Appendix 18) shall be able to send and receive class G3E emissions on the ship-to-ship navigation safety

Reason: To provide for ship stations using maritime mobile VHF radiotelephony and complying with chapter N IX.

communications frequency 156.650 MHz.

CEPT-11/18/6

USA/24/557

ADD 4137A

19A. In addition to the frequencies specified in Nos. 4135-4137, all ship stations complying with the provisions of Chapter NIX and equipped with radiotelephony to work in the authorized bands between 156 MHz and 174 MHz (see No. 613 and Appendix 18) shall be able to send and receive class G3E emissions on the ship-to-ship navigation safety communication frequency 156.650 MHz.

<u>Reasons</u>: To provide for ship stations using maritime mobile VHF radiotelephony, and complying with Chapter NIX, a frequency for navigation safety communications. DNK/FNL/ISL/NOR/S/8/3 ADD 4137A

E. Ship Stations Using Digital Selective-Calling Techniques

Reasons: To include a new sub-section concerning ship stations equipped with apparatus for digital selective calling.

DNK/FNL/ISL/NOR/S/8/4

The characteristics of the digital selective-calling ADD 4137B equipment should be in accordance with the relevant Recommendations of the CCIR.

> Reasons: To transfer the former regulation No. 4123A to this new section.

DNK/FNL/ISL/NOR/S/8/5 4137CA ADD

E1. Bands Between 415 kHz and 526.5 kHz

DNK/FNL/ISL/NOR/S/8/6

4137CB All ship stations equipped with apparatus for ADD digital selective calling to work in the authorized bands between 415 kHz and 526.5 kHz shall be able to:

DNK/FNL/ISL/NOR/S/8/7

4137CC ADD

transmit class F1B or J2B emissions on the a) digital selective-calling channels necessary for their service;

DNK/FNL/ISL/NOR/S/8/8 ADD 4137CD

b) receive class F1B or J2B emissions on the digital selective-calling channels necessary for their service.

Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls.

DNK/FNL/ISL/NOR/S/8/9 ADD 4137DA

E2. Bands Between 1 605 kHz and 4 000 kHz

DNK/FNL/ISL/NOR/S/8/10

All ships stations equipped with apparatus for ADD 4137DB digital selective calling to work in the authorized bands between 1 605 kHz and 4 000 kHz shall be able to:

DNK/FNL/ISL/NOR/S/8/11 ADD 4137DC

transmit class F1B or J2B emissions on a) 2 187.5 kHz and receive class F1B or J2B emissions on 2 187.5 kHz;

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DNK/FNL/ISL/NOR/S/8/12 4137DD b) transmit, in addition, class F1B or J2B ADD emissions on the digital selective-calling channels necessary for their service;

DNK/FNL/ISL/NOR/S/8/13 4137DE ADD

c) receive, in addition, class F1B or J2B emissions on the digital selective-calling channels necessary for their service.

Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls.

DNK/FNL/ISL/NOR/S/8/14 ADD 4137EA

E3. Bands Between 4 000 kHz and 27 500 kHz

DNK/FNL/ISL/NOR/S/8/15 4137EB ADD

All ships stations equipped with apparatus for digital selective calling to work in the authorized bands between 4 000 kHz and 27 500 kHz shall be able to:

DNK/FNL/ISL/NOR/S/8/16 ADD 4137EC

a) transmit class F1B or J2B emissions on at least two digital selective calling channels in each of the bands necessary to carry on the station's service, one of these should be an international calling channel (see No. 4683) in the bands concerned;

DNK/FNL/ISL/NOR/S/8/17 4137ED ADD

b) receive class F1B or J2B emissions on at least two digital selective-calling channels in each of the bands necessary to carry on the station's service, one of these should be an international calling channel (see No. 4684) in the bands concerned.

<u>Reasons</u>: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls.

DNK/FNL/ISL/NOR/S/8/18 4137FA ADD

E4. Bands Between 156 MHz and 174 MHz

DNK/FNL/ISL/NOR/S/8/19 4137FB

ADD

All ship stations equipped with apparatus for digital selective calling to work in the authorized bands between 156 MHz and 174 MHz shall be able to transmit and receive class G3X emissions on the frequency 156.525 MHz.

Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls on the frequency 156.525 MHz.

E/42/3 ADD 4137B Ship Stations Using Digital Selective Ε. Calling Techniques Reasons: To include a new sub-section concerning ship stations equipped with apparatus for digital selective calling. E/42/4 The characteristics of the digital selective calling ADD 4137C equipment should be in accordance with the relevant Recommendations of the CCIR. Reasons: To transfer the former Regulation No. 4123A to this new sub-section. E/42/5 4137DA E1. Bands Between 415 kHz and 526.5 kHz ADD E/42/6 ADD 4137DB All ship stations equipped with apparatus for digital selective calling to work in the authorized bands between 415 kHz and 526.5 kHz shall be able to transmit and receive class F1B or J2B emissions on at least two digital selective calling channels necessary for their service. E/42/7 ADD 4137DC The transmitters used for the above purposes shall be equipped with convenient means of reducing power substantially. Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls in these bands in the conditions indicated. E/42/8 ADD 4137EA E2. Bands Between 1 605 kHz and 4 000 kHz E/42/9 ADD 4137EB All ships stations equipped with apparatus for digital selective calling to work in the authorized bands between 1 605 kHz and 4 000 kHz shall be able to: E/42/10 ADD 4137EC transmit and receive class FlB or J2B emissions on a) the frequency 2 187.5 kHz; E/42/11 b) transmit and receive class F1B or J2B emissions on ADD 4137ED at least another two digital selective calling channels necessary for their service. ļ Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital

selective calls in these bands.

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E/42/12 ADD 4137FA E3. Bands Between 4 000 kHz and 27 500 kHz E/42/13 ADD 4137FB All ships stations equipped with apparatus for digital selective calling to work in the authorized bands between 4 000 kHz and 27 500 kHz shall be able to: E/42/14 ADD 4137FC a) transmit and receive class F1B or J2B emissions on the frequencies 4 188 kHz, 6 282 kHz, 8 375 kHz, 12 563 kHz and 16 750 kHz; E/42/15 b) transmit and receive class F1B or J2B emissions on ADD 4137FD at least two digital selective calling channels in each of the bands necessary for their service, one of which should be an international calling channel (see Nos. 4683 and 4684) as appropriate in the bands concerned. Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls in these bands. E/42/16 ADD 4137GA E4. Bands Between 156 MHz and 174 MHz E/42/17 ADD 4137GB All ship stations equipped with apparatus for digital selective calling to work in the authorized bands between 156 MHz and 174 MHz shall be able to transmit and receive class G3X emissions on the frequency 156.525 MHz. Reasons: To prescribe the capability of ship stations equipped with apparatus for digital selective calling to transmit and receive digital selective calls on the frequency 156.525 MHz. J/60/507 Section II. Conditions to be Observed by Ship Earth-MOD Stations Maritime Mobile-Satellite Service NOC 4138 Ship earth stations shall be so established as to con-§ 20. form to the provisions of Chapter III as regards frequencies. 4139 § 21. The frequencies of emissions of ship earth stations shall G/33/84 be checked as often as practicable by the inspection service to SUP which these stations are subject. Reason: This checking is not practicable.

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	Ň	OC 414	0 § 22. The energy radiated by receiving apparatus shall be reduced to the lowest practicable value and shall not cause harmful interference to other stations.
:	N	OC 414	1 § 23. Administrations shall take all practicable steps neces- sary to ensure that the operation of any electrical or electronic apparatus installed in ship earth stations does not cause harmful interference to the essential radio services of stations which are operating in accordance with the provisions of these Regulations.
URS/135	: /3		-
013/132	MOD	(ction III. Aircraft <u>Stations and Aircraft Earth Stations</u> Communicating with Stations of the Maritime Mobile Service and the Maritime Mobile-Satellite Service
:	NC)C 414	2 A. General Provisions
1100 /135		÷	
URS/135	MOD	4143	Stations on beard Aircraft stations and aircraft earth stations may communicate with stations of the maritime mobile or maritime mobile-satellite services. They shall conform to those provisions of these Regulations which relate to these services (see Articles 48, 61, 62, 63, 65 and also Nos. MOD 962 and MOD 3633).
G/33/85 N		144	(2) For this purpose stations on board aircraft should <u>shall</u> use the frequencies allocated to the maritime mobile or maritime mobile-satellite services.
		· . ·	<u>Reason</u> : To require stations on board aircraft to use only those frequencies allocated to the maritime mobile or maritime mobile—satellite services when communicating with stations of those services.
JRS/135,	/5 SUP	4144	
JRS/135,	/6 SUP	4145	
		Reason	s: These provisions are mentioned in MOD 4143.
URS/32/	MOD	4145	(3) Stations on board aircraft, when handling public - correspondence with stations of the maritime mobile service or of the maritime mobile-satellite service, shall comply with all the provisions applicable to the handling of public correspondence in the maritime mobile or maritime mobile-satellite services (see particularly Articles 61, 62, 63, 65 and 66).
		Beeren	e. Observance of rules ought to annly to all stations whether

<u>Reasons</u>: Observance of rules ought to apply to all stations, whether operating temporarily or permanently for a particular service.

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URS/135/7			
MOD	4146	renewed <u>as</u>	In the case of communication between a station of the obile service and an aircraft station, calling may be is specified in Nos. 4933, 4934 and after an interval nutes, not withstanding No. 4735.
		or tive mit	aces, not withstanding No. 4755.
	Reasons	: To reflect	: radiotelephone procedures.
NOC	4147		sions Relating to the Use of Frequencies etween 156 MHz and 174 MHz
NOC	4148	aircraft station mobile bands tions, with the and 174 MHz	ing regard to interference which may be caused by ns at high altitudes, frequencies in the maritime above 30 MHz shall not be used by aircraft sta- e exception of those frequencies between 156 MHz specified in Appendix 18 which may be used the following conditions are observed:
NOC	4149	a)	the altitude of aircraft stations shall not exceed 300 metres (1 000 feet), except for reconnaissance aircraft participating in ice-breaking operations, where an altitude of 450 metres (1 500 feet) is allowed;
NOC	4150	b)	the mean power of aircraft station transmitters shall not exceed 5 W; however, a power of 1 W or less shall be used to the maximum extent possible;
NOC	4151	c)	aircraft stations shall use the channels designated for this purpose in Appendix 18;
NOC	4152	d)	except as provided in No. 4150, aircraft station transmitters shall comply with the technical charac- teristics given in Appendix 19;
NOC	4153	·	the communications of an aircraft station shall be brief and limited to operations in which stations of the maritime mobile service are primarily involved and where direct communication between the air- craft and the ship or coast station is required.
G/33,86 MOD 41	54	be used by also be us aircraft s	e frequencies frequency 156.3 Miz-and-156.8 NHz way aircraft stations for safety purposes only. It may ed for communication between ship stations and itations engaged in co-ordinated search and rescue (see Nos. 2993 and N2993).
G/33/87 ADD 41	55	(2A) T stations f	he frequency 156.8 MHz may be used by aircraft or safety purposes only (see Nos. 2995A and N2995A).
		to its use by aircraf rescue ope	b 4154 and ADD 4155, to indicate that, in addition for safety purposes, 156.3 MHz may also be used t stations engaged in coordinated search and rations, and that 156.8 MHz may be used by aircraft or safety purposes only.

USA/24/559 ADD

Section IV. Conditions to be Observed by Ship Stations and Ship Earth Stations While Temporarily in Ports and Harbors

USA/24/560 ADD

4155 Members of the Union should permit operation of foreign ship stations and foreign ship earth stations which are temporarily in their ports and harbors (see No. 4018). In conducting such operations, foreign ship stations and foreign ship earth stations shall comply with the applicable provisions of the Radio Regulations, noting those contained in Nos. 4096 through 4141, Article 57 and Article 61.

<u>Reason</u>: To bring into the Radio Regulations the intent of Recommendation No. 316. The proposed new Regulation would provide a uniform policy for all administrations to follow in permitting ships to use their communications equipment while temporarily in their ports and harbors, but would still leave open the possibility for restrictions as an administration might see necessary. Upon adoption of this provision, Recommendation No. 316 can be suppressed.

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4155 to 4179

NOT allocated.



Document DT/27-E 22 September 1987 Original: English

WORKING GROUP 5-B

Draft

SECOND REPORT BY WORKING GROUP 5-B TO COMMITTEE 5

Following discussion of the proposal in Document 31 concerning RR 2998B and RR 2998C, the Chairman proposes the following text for submission to Committee 5 as the contents of a draft letter to be sent to the Technical Working Group of the Plenary.

"Radio Regulations Nos. 2998B and 2998C provide for two operational requirements in the band 1 544 - 1 545 MHz. The Report of the Special Meeting of CCIR Study Group 8 concludes in section 6.13.3.3 that sharing of this band can be accommodated and that additional information would be required."

The Technical Working Group of the Plenary is requested to consider:

- 1) whether it is technically desirable to sub-divide this band for the two applications provided for in Nos. 2998B and 2998C, noting its present utilization by existing systems;
- 2) if it is, to advise Committee 4 of the required bandwidths for each with a request that Committee 5 be advised of the specific frequencies agreed so that Nos. 2998B and 2998C may be modified;
- 3) if it is not, to advise Committee 5.

T. HAHKIO Chairman of Working Group 5-B

INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/28-E 22 September 1987 Original: English

WORKING GROUP 5-A

Draft

SECOND REPORT OF WORKING GROUP 5-A TO COMMITTEE 5

At its third, fourth, fifth and sixth meetings. Working Group 5-A considered 1. Article N 38. The approved text is in the Annex.

The delegate of Greece reserved the right to come back to the future use of 2. the frequency 490 kHz in Committee 5.

A consolidated text for N 2968 was proposed in Document DL/9 and was adopted 3 with some modification. The last sentence was left in square brackets for referral to Committee 4.

In N 2971B, the words "(international NAVTEX system)" were added and a 4. reference to Resolution No. 318 was placed in square brackets pending a decision by Committee 6.

5. In N 2973, the word "exclusively" was placed in square brackets pending a decision by Committee 6.

In provisions N 2978B, N 2982E, N 2986D, N 2988B, N 2988H and N 2988N a reference to N 3171A was included and the three final references now read N 3172, N 3195R and N 3195AB. It was agreed that the references in Document DT/1B would be used throughout.

A proposal by the delegate of Japan requested the inclusion of a description of 7. distress call. It was agreed that this would be covered in Article N 39.

N 2982EA and N 2982EB as submitted in Documents B/57/120 and B/57/121 were 8 approved with the frequency itself in square brackets pending a decision of Committee 4. However, the delegate of the USSR reserved the right to come back to this in Committee 5.

In N 2993B, the word "exclusively" was placed in square brackets and the "See 9 No. 347" in square brackets was added, pending decisions in Committee 4.

Certain frequencies in the 4, 6, 8, 12 and 16 MHz bands were placed in square 10. brackets pending discussions of Appendix 31 in Committee 4.

11. It was agreed that the reference to "class of emission G3E" would be deleted in N 2993 and N 2994.

12. In relation to ADD N 3002 the following statement was made by the representative of IMO: "The IMO Sub-Committee on Life-Saving, Search and Rescue at its 18th session (June 1987), agreed that a frequency in addition to channel 16 was necessary for the two-way radiotelephone apparatus. The additional frequency is needed so that the equipment can be used during drills and for other safety purposes on board ships. The purpose of the additional frequency is also to ensure that the equipment is in working order and so that it can be used without the restrictions that would apply if only channel 16 was available. (Decision subject to approval by MSC-55 in April 1988.)"

13 The representative of IATA while acknowledging the commendable work done by its sister organizations IMO and ICAO expressed the plea that once the details were worked out that all parties concerned with safety in all mobile services be consulted with a view to maximal cooperation.

14. With respect to N 3010, the delegate of Australia wished to take up the addition of other frequencies as in AUS/40/218 at the Committee 5 discussion on principles.

15. Small ad hoc Drafting Groups were called to submit texts on N 3002, N 3016A and N 3041.

16. The Editorial Committee is requested to consider the titles of the Articles and sections in Chapter N IX with a veiw to avoiding redundancy.

U. HAMMERSCHMIDT Chairman of Working Group 5-A

Annex: 1

- 3 -MOB-87/DT/28-E

ANNEX

ADD ARTICLE N 38 Frequencies for Distress and Safety Communications for the GMDSS Section I. Availability of Frequencies DT/1BADD N 2967 A. 490 kHz DL/9 N 2968 In the maritime mobile service the frequency 490 kHz is reserved exclusively for the transmission by coast stations of meteorological and navigational warnings and other urgent information to ships by means of narrow-band direct-printing telegraphy. Note - Consideration of the following text is referred to Committee 5 for transmission to Committee 4. DL/9 The frequency may be used by administrations for transmissions of such information in their national language services. DT/1B ADD N 2971A 518 kHz Β. DT/1B ADD N 2971B In the maritime mobile service, the frequency 518 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy (international NAVTEX system) [(see Resolution No. 318(Mob-83))]. DT/1B ADD N 2971C C. 2 174.5 kHz DT/1B ADD N 2971D The frequency 2 174.5 kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy. DT/1B ADD N 2972 2 182 kHz D. DT/1B The carrier frequency 2 182 kHz is used [exclusively] ADD N 2973 for distress and safety traffic by radiotelephony, using class of emission J3E. (See also No. 2973.) DT/1B E. 2 187.5 kHz N 2978A ADD DT/1B

The frequency 2 187.5 kHz is used exclusively for ADD N 2978B distress and safety calls using digital selective calling in accordance with No. N 3171A. (See Nos. N 3172, N 3195R and N 3195AB.)

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DT/1B	ADD	N	2979	F. 3 023 kHz
DT/1B	ADD	N	2980	The aeronautical carrier (reference) frequency 3 023 kHz may be used for intercommunication between mobile stations when they are engaged in coordinated search and rescue operations, and for communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 Aer2 (see Nos. 501 and 505).
DT/1B	ADD	N	2981	G. 4 125 kHz
DT/1B	ADD	N	2982	The carrier frequency 4 125 kHz is used for distress and safety traffic by radiotelephony (see also No. 2982).
DT/1B	ADD	N	2982A	The carrier frequency 4 125 kHz may be used by aircraft to communicate with stations of the maritime mobile service for distress and safety purposes (see No. N 2943).
DT/1B	ADD	N	2982B	H. [4 177.5] kHz
DT/1B	ADD	N	2982C	The frequency [4 177.5] kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.
DT/1B	ADD	N	2982D	I. [4 188] kHz
DT/1B	ADD	N	2982E	The frequency [4 188] kHz is used exclusively for distress and safety calls using digital selective calling \underline{in} accordance with No. N 3171A. (See Nos. N 3172, N 3195R and N 3195AB.)
B/57/12		N	2982EA	A IA. [4 229] kHz
B/57/12		11	27026	
	ADD	N	2982EI	In the maritime mobile service, the frequency [4 229] kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy.
DT/1B	ADD	N	2983	J. 5 680 kHz
DT/1B	ADD	N	2984	The aeronautical carrier (reference) frequency 5 680 kHz may be used for intercommunication between mobile stations when they are engaged in coordinated search and rescue operations, and for communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 Aer2 (see also Nos. 501 and 505).

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DT/1B	ADD	N	2985	K. [6 215.5] kHz
DT/1B	ADD	N	2986	The carrier frequency [6 215.5] kHz is used for distress and safety traffic by radiotelephony (see also No. 2986).
DT/1B	ADD	N	2986A	L. [6 268] kHz
DT/1B	ADD	N	2986B	The frequency [6 268] kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.
DT/1B	ADD	N	2986C	M. [6 282] kHz
DT/1B	ADD	N	2986D	The frequency [6 282] kHz is used exclusively for distress and safety calls using digital selective calling <u>in</u> <u>accordance with No. N 3171A</u> . (See Nos. N 3172, N 3195R and N 3195AB.)
DT/1B	ADD	N	2986E	N. 8 257 kHz
DT/1B	ADD	N	2986F	The carrier frequency 8 257 kHz is used exclusively for distress and safety traffic by radiotelephony.
DT/1B	ADD	N	2986G	0. [8 357.5] kHz
DT/1B	ADD	N	2986н	The frequency [8 357.5] kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.
DT/1B	ADD	N	2988A	P. [8 375] kHz
DT/1B	ADD	N	2988B	The frequency [8 375] kHz is used exclusively for distress and safety calls using digital selective calling <u>in</u> <u>accordance with No. N 3171A</u> . (See Nos. N 3172, N 3195R and N 3195AB.)
DT/1B	ADD	N	2988C	Q. [12 392] kHz
DT/1B	ADD	N	2988D	The carrier frequency [12 392] kHz is used for distress and safety traffic by radiotelephony.
DT/1B	ADD	N	2988E	R. [12 520] kHz
DT/1B	ADD	N	2988F	The frequency [12 520] kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.

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DT/1B	ADD	N 298	8G S. [12 563] kHz
DT/1B	ADD	N 298	8H The frequency [12 563] kHz is used exclusively for distress and safety calls using digital selective calling <u>in</u> <u>accordance with No. N 3171A</u> . (See Nos. N 3172, N 3195R and N 3195AB.)
DT/1B	ADD	N 298	8I T. 16 522 kHz
DT/1B	ADD	N 298	8J The carrier frequency 16 522 kHz is used for distress and safety traffic by radiotelephony.
DT/1B	ADD	N 298	8K U. [16 695] kHz
DT/1B	ADD	N 298	8L The frequency [16 695] kHz is used exclusively for distress and safety traffic using narrow-band direct-printing telegraphy.
DT/1B	ADD	N 298	8M V. [16 750] kHz
DT/1B	ADD	N 298	8N The frequency [16 750] kHz is used exclusively for distress and safety calls using digital selective calling <u>in</u> <u>accordance with No. N 3171A</u> . (See Nos. N 3172, N 3195R and N 3195AB.)
DT/1B	ADD	N 298	9 W. 121.5 MHz and 123.1 MHz
DT/1B	ADD	N 299	OA The aeronautical emergency frequency 121.5 MHz ¹ is used for the purposes of distress and urgency for radiotelephony by stations of the aeronautical mobile service using frequencies in the band between 117.975 MHz and 136 MHz (137 MHz after 1 January 1990). This frequency may also be used for these purposes in survival craft stations and emergency position-indicating radiobeacons.
DT/1B	ADD	N 299	0A.1 Normally aircraft stations transmit distress and urgency messages on the working frequency in use at the time of the distress or urgency incident.
DT/1B	ADD	N 299	OB The aeronautical auxiliary frequency 123.1 MHz, which is auxiliary to the aeronautical emergency frequency 121.5 MHz, is for use by stations of the aeronautical mobile service and by other mobile and land stations engaged in coordinated search and rescue operations (see also No. 593).

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DT/1B			
,	ADD	N 2991	Mobile stations of the maritime mobile service may communicate with stations of the aeronautical mobile service on the aeronautical emergency frequency 121.5 MHz for the purposes of distress and urgency, only, and on the aeronautical auxiliary frequency 123.1 MHz for coordinated search and rescue operations, using class A3E emissions for both frequencies (see also Nos. 501 and 593). They shall then comply with any special arrangements between the governments concerned by which the aeronautical mobile service is regulated.
DT/1B	ADD	N 2992	X. 156.3 MHz
DT/1B	ADD	N 2993	The frequency 156.3 MHz may be used for communication between ship stations and aircraft stations using class of emission G3E engaged in coordinated search and rescue operations. It may also be used by aircraft stations to communicate with ship stations for other safety purposes (see also note g) of Appendix 18).
DT/1B	ADD	N2993A	Y. 156.525 MHz
DT/1B	ADD	N2993B	The frequency 156.525 MHz is used [<u>exclusively</u>] in the maritime mobile service exclusively for distress and safety calls using digital selective calling (see also No. 613A and Resolution No. 317(Mob-83)) [<u>(see No. 347)</u>].
DT/1B	ADD	N 2993C	Z. 156.650 MHz
DT/1B	ADD	N 2993D	The frequency 156.650 MHz is used for ship-to-ship communications related to the safety of navigation in accordance with note[n)] of Appendix 18.
DT/1B	ADD	N 2993E	AA. 156.8 MHz
DT/1B	ADD	N 2994	The frequency 156.8 MHz is used for distress and safety traffic by radiotelephony , using class of emission C3E. (see also No. 2994).
DT/1B	ADD	N 2995A	The frequency 156.8 MHz may be used by aircraft stations for safety purposes only.
DT/1B	ADD	N 2997	AB. 406 - 406.1 MHz band
DT/1B	ADD	N 2997A	The frequency band 406 - 406.1 MHz is used exclusively <u>for by</u> satellite emergency position-indicating radiobeacons in the Earth-to-space direction (see No. 649).

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J/60/214 ADD N 2997B AC. 1 530 - 1 544 MHz band J/60/215 ADD N 2997C In addition to its availability for routine non-safety 28 purposes, the band 1 530 - 1 544 MHz is used for distress and safety purposes in the space-to-Earth direction in the maritime mobile-satellite service. DT/1B ADD N 2998 AC. 1 544 - 1 545 MHz band DT/1B ADD N 2998A Use of the band 1 544 - 1 545 MHz (space-to-Earth) is limited to distress and safety operations (see No. 728) including: DT/1B ADD N 2998B a) feeder links of satellites needed to replay the emissions of satellite emergency positionindicating radiobeacons to earth stations; DT/1B N 2998C ADD b) narrow-band (space-to-Earth) links from space stations to mobile stations. J/60/218 ADD N 2998CA AE. 1 626.6 - 1 645.5 MHz band J/60/219 N 2998CB ADD 30 In addition to its availability for routine non-safety purposes, the band 1 626.5 - 1 645.5 MHz is used for distress and safety purposes in the Earth-to-space direction in the maritime mobile-satellite service. DT/1B N 2998D AD. 1 645.5 - 1 646.5 MHz band ADD DT/1B N 2998E ADD Use of the band 1 645.5 - 1 646.5 MHz (Earth-to-space) is limited to distress and safety operations (see No. 728). DT/1B AE. -9-300 9 200 - 9 500 MHz ADD N 2998F DT/1B The band 9 300 9 200 - 9 500 MHz is used for by radar ADD N 2998G transponders to facilitate search and rescue. DT/1B Survival Craft Stations ADD N 3001 AF. CAN/25/104 N 3002 Equipment provided for radiotelephony use in survival ADD craft stations shall, if capable of operating on any frequency in the bands between 156 MHz and 174 MHz, be able to transmit and receive on 156.8 MHz and at least one other frequency in these bands. using class G3E emission. If a receiver is provided inthese bands it shall be able to receive class G3E emissions on 156.8 MHz and at least one other frequency in these bands.

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USA/24/	284			
, ,	ADD	N	3002A	Equipment provided for transmitting locating signals from survival craft stations shall be capable of operating in the 9 200 - 9 500 MHz band <u>using class of emission PON</u> .
DT/1B	ADD	N	3008A	Equipment with digital selective calling facilities provided for use in survival craft shall, if capable of operating:
DT/1B	ADD	N	3008B	a) in the bands between 1 605 kHz and 2 850 kHz, be able to transmit on 2 187.5 kHz;
DT/1B	ADD	N	3008C	b) in the bands between 4 000 kHz and 27 500 kHz, be able to transmit on [8 375] kHz;
DT/1B	ADD	N	3008D	c) in the bands between 156 MHz and 174 MHz, be able to transmit on 156.525 MHz.
DT/1B	ADD			Section II. Protection of Frequencies Used for Automated Communications for Distress and Safety <u>Communications for the GMDSS</u>
DT/1B				
	ADD	N	3009	A. General
DT/1B	ADD	N	3010	Except as provided for in these Regulations, any
				emission capable of causing harmful interference to distress, alarm urgency or safety communications on the frequencies
				emission capable of causing harmful interference to distress, alarm, urgency or safety communications on the frequencies 490 kHz, 500 kHz, 518 kHz, 2 174.5 kHz, 2 182 kHz, 2 187.5 kHz, 4 125 kHz, 4 177.5 kHz, 4 188 kHz, 6 215 kHz, 6 268 kHz, 6 282 kHz, 8 257 kHz, 8 357.5 kHz, 8 375 kHz, [12 392] kHz, 12 520 kHz, 12 563 kHz, 16 522 kHz, 16 695 kHz, 16 750 kHz, 156.525 MHz or 156.8 MHz (see also No. 3010) is prohibited. Any emission causing harmful interference to distress and safety communications on any of the other frequencies identified in Section I of this Article and in Section I of Article 38 is prohibited.

				- 10 - MOB-87/DT/28-E
J/60/23	4 ADD	Ŋ	3016A	38 (1) Before transmitting for other than distress purposes on any of the frequencies identified in Section I for distress and safety, a station shall, where practicable, listen on the frequency concerned to make sure that no distress transmission is being sent.
DT/1B	ADD	N	3022	B. 2 173 - 2 190 kHz Band
CEPT-8/			3023	Except for transmissions authorized on the carrier frequency 2 182 kHz and on the frequencies 2 174.5 kHz, [2 177] kHz, 2 187.5 kHz and [2 189.5] kHz, all transmissions on the frequencies between 2 173.5 kHz and 2 190.5 kHz are forbidden.
DT/1B	ADD	N	3032	C. 156.7625 to 156.8375 MHz Band
DT/1B	ADD	N	3033	All emissions in the band 156.7625 - 156.8375 MHz capable of causing harmful interference to the authorized transmissions of stations of the maritime mobile service on 156.8 MHz are forbidden.
DT/1B	ADD			Section III. Watch on Frequencies Used for Automated Communications for Distress and Safety <u>Communications for the GMDSS</u>
DT/1B	ADD	N	3037	A. Selected Coast Stations
DT/1B	ADD	N	3038	Coast stations selected in accordance with the plan coordinated by the International Maritime Organization <u>IMO</u> shall maintain an automatic digital selective calling watch on frequencies and for periods of time as indicated in the information published in the List of Coast Stations.
DT/1B	ADD	N	3038A	B. Coast Earth Stations
DT/1B	ADD	N	3038B	Coast earth stations selected in accordance with the plan coordinated by the <u>International Maritime Organization IMO</u> shall maintain an <u>a</u> <u>continuous</u> automatic watch for <u>appropriate</u> distress alerts relayed <u>by space stations</u> . <u>from satellite</u> <u>emergency position-indicating radiobeacons by space stations</u> .
DT/1B	ADD	N	3040	C. Ship Stations
DT/1B	ADD	N	3041	Ship stations complying with the provisions of this Chapter shall, while at sea, maintain an automatic digital selective calling watch on the appropriate distress and safety calling frequencies in the frequency bands in which they are operating. Ship stations, where so equipped, should also maintain watch on the appropriate frequencies for the automatic reception of transmissions of navigational and meteorological warnings and other urgent information to ships.

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DT/1B

ADD N 3042 Ship stations complying with the provisions of this Chapter should, where practicable, maintain a watch on the frequency 156.650 MHz for communications related to the safety of navigation.

CEPT-8/15/187

ADD N 3041A

D. Ship Earth Station

CEPT-8/15/188

ADD N 3041B

B Ship earth stations in use for the reception of shoreto-ship distress alert relays should maintain watch except when communicating on a working channel.

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/29-E 23 September 1987 Original: English

WORKING GROUP 5 AD HOC 1

NOTE BY THE CHAIRMAN OF WORKING GROUP 5 AD HOC 1

The terms of reference of the Working Group as approved at the third meeting of Committee 5 are as follows:

> To consider in detail the Resolution providing for "The Introduction of the GMDSS and the Continuation of Existing Distress and Safety Provisions" and to consider all other Resolutions and Recommendations pertinent to the work of Committee 5.

R.C. McINTYRE Chairman of Working Group 5 ad hoc 1 NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/30-E 23 September 1987 Original: English

WORKING GROUP 5 AD HOC 1

Note by the Chairman of Working Group 5 ad hoc 1

DRAFT RESOLUTION No. [COM5/2]

The Study and Implementation of a Distress and Safety Service for uninhabited and Remote Areas of the World

Taking account of the proposal by Algeria (ALG/89/9 in Document 89) and the views expressed at the third meeting of Committee 5, a draft Resolution prepared by the Chairman of Committee 5 is attached in the annex.

R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

Annex: 1

DRAFT

RESOLUTION No. [COM5/2]

Relating to the Study and Implementation of a Global [Land and Maritime] Distress and Safety System

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the basic requirements for the Global Maritime Distress and Safety System (GMDSS) has been developed by IMO to meet the specific needs of the maritime mobile and maritime mobile-satellite services;

b) that stations of the land mobile and land mobile-satellite services may use the frequencies and procedures of the GMDSS in uninhabited and remote areas for distress and safety purposes;

c) that further development of the communication facilities incorporated in the GMDSS would enable the system also to meet the specific needs of the land mobile and land mobile-satellite services for distress and safety;

noting

that the CCIR contributed substantially to the development of the GMDSS by carrying out appropriate technical and operational studies;

recognizing

a) that this Conference has adopted provisions to facilitate the implementation of the GMDSS;

b) that administrative, technical and operational studies appropriate to the land mobile and land mobile-satellite services need to be conducted before detailed provisions relating to the distress and safety requirements of these services can be incorporated into the Radio Regulations;

resolves

1. that the next competent conference be requested to make the necessary provisions to the Radio Regulations for a global [land and maritime] distress and safety system;

invites

1. the CCIR to study the technical and operational requirements for distress and safety by the land mobile and land mobile-satellite services, including:

 a) the configuration of coast and coast earth stations being used in the GMDSS and whether additional land stations or earth stations might be needed to ensure adequate coverage of uninhabited and remote areas of the world;

- b) the need for frequencies additional to those used in the GMDSS;
- c) the technical and operational characteristics of equipment, which is simple to operate and of low cost, for use in the global [land and maritime] distress and safety system;

2. <u>administrations</u>

- a) actively to contribute to and participate in the work of the CCIR;
- b) to prepare and as far as possible coordinate, proposals on these matters, taking account of the CCIR studies, for submission to the next competent conference;

3. the Administrative Council to take the necessary steps to place this matter on the agenda of the next competent WARC and to take appropriate steps to assist in its preparation;

4. the Secretary-General to send the Resolution to IMO and ICAO.

WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

INTERNATIONAL TELECOMMUNICATION UNION

Document DT/31-E 23 September 1987 Original: English

WORKING GROUP 5-B

Draft

THIRD REPORT BY WORKING GROUP 5-B TO COMMITTEE 5

The text reproduced in the annex was approved at the fourth meeting of 1. Working Group 5-B.

Provisions 2998B, 2998C and 2998E are reproduced in square brackets 2. pending the proposed consideration of matters contained in the proposals made by the Federal Republic of Germany and Australia by the Technical Working Group.

3. With respect to provision 3018, the Delegations of Greece, Cuba and the Islamic Republic of Iran reserved their position concerning the reduction of the guard band.

With respect to provision 3038, there was also a reservation by the 4. Delegation of Greece.

> T. HAHKIO Chairman of Working Group 5-B

Annex: 1

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ANNEX

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2998	AG. 1 544 - 1 545 MHz Band
2998A	§ 10C. Use of the band 1 544 - 1 545 MHz (space-to-Earth) is limited to distress and safety operations (see No. 728) including:
2998B	a) feeder links of satellites needed to relay the emissions of satellite emergency position- indicating radiobeacons to earth stations;
2998C	<pre>b) narrow-band (space-to-Earth) links from space stations to mobile stations.</pre>
2998D	AH. 1 645.5 - 1 646.5 MHz Band
2998E	<pre>§ 10D. Use of the band 1 645.5 - 1 646.5 MHz (Earth-to-space) is limited to distress and safety operations (see No. 728).</pre>
2999	AL Aircraft in Distress
3000	
3001	AJ. Survival Craft Stations
3002-30	08
3008A	
3008B .	
3008C	
3008D	
	Section II. Protection of Distress and Safety Frequencies
3009	
3010	§ 13. Except as provided for in Nos. 2944, 2949 and 3011, any emission capable of causing harmful interference to distress, alarm, urgency or safety communications on the international distress frequencies 500 kHz, 2 182 kHz or 156.8 MHz, or on the distress and safety calling frequencies 490 kHz, 2 187.5 kHz, 4 125 kHz, 4 188 kHz, [6 215.5 kHz,] 6 282 kHz, 8 375 kHz, 12 563 kHz, 16 750 kHz or 156.525 MHz is prohibited. Any emission causing harmful interference to distress and safety communications on any of the other frequencies identified in Section I of this Article and Section I of Article N 38 is prohibited.
	2998B 2998C 2998D 2998E 2999 3000 3001 3002-30 3008A 3008B 3008C 3008D

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NOC 3011

3012 to 3015 SUP

MOD 3016 (2) It is not permitted to transmit complete alarm signals for testing purposes on any frequency except for essential tests coordinated with competent authorities. As an exception such tests are permitted for radiotelephone equipment which can operate only on the international distress frequency frequencies 2 182 kHz, and 156.8 MHz, in which case a suitable artificial antenna shall be employed.

- NOC 3016A
- NOC 3016B
- NOC 3017 B. 500 kHz
- MOD 3018 § 15. (1) Apart from the transmissions authorized on 490 kHz and 500 kHz, and taking account of No. 4226, all transmissions on the frequencies included between 490 kHz 495 kHz and 510 kHz 505 kHz are forbidden (see No 471 [and Resolution 206 (Mob-83))<u>A</u>.]
- NOC 3019
- NOC 3020 and 3021 SUP
- NOC 3022 C. 2 182 kHz
- MOD 3023 § 16. (1) Except for transmissions authorized on the carrier frequency 2 182 kHz and on the frequencies 2 174.5 kHz, [2 177 kHz], and 2 187.5 kHz, [and 2 189.5 kHz], all transmissions on the frequencies between 2 173.5 kHz and 2 190.5 kHz are forbidden. (See also No. 3023.)

3024 and 3025 SUP

NOC 3026-3028

3029 to 3031 SUP

- (MOD) 3031A DA. D. 121.5 MHz, 123.1 MHz and 243 MHz
- NOC 3031B
- (MOD) 3032 E. 156.8 156.7625 156.8375 MHz

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MOD 3033 § 18. (1) All emissions in the band 156.7625 - 156.8375 MHz capable of causing harmful interference to the authorized transmissions of stations of the maritime mobile service on 156.8 MHz are forbidden. The frequency 156.825 MHz may, however, be used for the purposes described in No. 2995C subject to not causing harmful interference to authorized transmissions on 156.8 MHz (see also note k) of Appendix 18).

3034 and 3035 SUP

NOC 3036

NOC Section III. Watch on Distress Frequencies

NOC 3037

MOD 3038 § 19. (1) In order to increase the safety of life at sea and over the sea, all stations of the maritime mobile service normally keeping watch on frequencies in the authorized bands between 415 kHz and 526.5 kHz which employ Morse telegraphy shall, during their hours of service, take the necessary measures to ensure watch on the international distress frequency 500 kHz for three minutes twice an hour beginning at x h 15 and x h 45, Coordinated Universal Time (UTC) by an operator using headphones or loudspeaker. [See also Resolution A].



Document DT/32-E 24 September 1987 Original: English

WORKING GROUP 5-B

Draft

FIFTH REPORT BY WORKING GROUP 5-B TO COMMITTEE 5

Following discussion of the proposal in Document 40 concerning RR 2998E, the Chairman proposes the following text for submission to Committee 5 as the contents of a draft note to be sent to the Technical Working Group of the Plenary.

> "Radio Regulation 2998E provides the 1 645.5 - 1 646.5 MHz band for distress and safety operations in the Earth-to-space direction."

This 1 MHz of spectrum is not currently used but it is considered likely that it may be used by Satellite Emergency Position. Indicating radiobeacons (satellite EPIRBs) operating through the second generation of INMARSAT geostationary satellites. Additionally, to reduce the delays in forwarding 406 MHz satellite EPIRB signals received by the COSPAS/SARSAT system, it is proposed to relay these signals, from the COSPAS/SARSAT satellite in low polar earth orbits in the band 1 645.5 - 1 646.5 MHz to geostationary satellites for transmission to coast earth stations. The report of the SPM of Study Group 8 at Section 6.13.4 addresses spectrum sharing considerations.

The Technical Working Group of the Plenary is requested to consider:

- 1. whether it is technically desirable to relay satellite EPIRB signals received by COSPAS and SARSAT satellite in the 1 645.5 - 1 646.5 MHz band;
- if so, to advise Committee 4 of the required bandwidth, with a 2. request that Committee 5 be advised of the specific frequencies agreed for this function so that No. 2998E may be modified;
- if not, to advise Committees 4 and 5 of the most appropriate 3. frequencies to be used to relay the satellite EPIRB signals received by polar orbiting satellites via geostationary satellites.

T. HAHKIO Chairman of Working Group 5-B

Document DT/33-E 24 September 1987 Original: English

WORKING GROUP 5-B

Draft

SIXTH REPORT OF WORKING GROUP 5-B TO COMMITTEE 5

Working Group 5-B has completed consideration of nearly all matters in 1. Chapter IX, as shown in the Annex.

2. In No. 3090, the words [or persons] are added, and as a consequence No. 3279 is also in square brackets.

3. The proposals on 3284, 3285, ADD 3285A and ADD 3285B (proposals PRG/61/30, USA/24/189, PRG/61/31, G/163/1 and G/163/2) have not been dealt with by the Working Group but are reproduced in square brackets for easy reference.

4. An editorial amendment in No. 3259A appears in square brackets.

5 There was general agreement on the suppression of Section IV of Article 42, but some delegates felt that this text should be retained in square brackets for further consideration.

6. If there are any outstanding proposals on Chapter IX, these will be dealt with at the next meeting of Working Group 5-B, or submitted to Committee 5.

> T. HAHKIO Chairman of Working Group 5-B

Annex: 1

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ANNEX

NOC 3052

MOD 3052A § 23A. During the periods referred to in No. 3052 all transmissions, except those provided for in this Chapter and in Chapter N IX [and on 2 177 kHz and 2 189.5 kHz], shall cease in the band 2 173.5 - 2 190.5 kHz.

(MOD) 3053 C. [4 125 kHz and 6 215.5 kHz]

- MOD 3054 § 24. (1) In the zone of Region 1 south of latitude 15°N, in Region 2 (except Greenland) and in the zone of Region 3 south of latitude 25°N, All coast stations which are open to public correspondence and which form an essential part of the coverage of the area for distress purposes may, during their hours of service, maintain a watch on the carrier frequencies 4 125 kHz and/or 6 215.5 kHz, as appropriate (see Nos. 2982 and 2986). Such watch should be indicated in the List of Coast Stations.
- NOC 3055
- NOC 3056
- MOD 3057 § 25. (1) A coast station providing an international maritime mobile radiotelephone service in the band 156 - 174 MHz and which forms an essential part of the coverage of the area for distress purposes should, during its working hours in that band, maintain an efficient aural watch on 156.8 MHz (see Recommendation 306). See [Resolution No. A] and Recommendation No. 306.
- MOD 3058

(2) Ship stations should, where practicable, maintain watch on 156.8 MHz when within the service area of a coast station providing international maritime mobile radiotelephone service in the band 156 - 174 MHz. Ship stations fitted only with VHF radiotelephone equipment operating in the authorized bands between 156 MHz and 174 MHz, should maintain watch on 156.8 MHz when at sea. [See Resolution No. A]

MOD 3059 (3) Ship stations, when in communication with a port station, may, on an exceptional basis and subject to the agreement of the administration concerned, continue to maintain watch, on the appropriate port operations frequency only, provided that watch on 156.8 MHz is being maintained by the port station. [See <u>Resolution No. A]</u>

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MOD 3060 (4) Ship stations, when in communication with a coast station in the ship movement service and subject to the agreement of the administrations concerned, may continue to maintain watch on the appropriate ship movement service frequency only, provided the watch on 156.8 MHz is being maintained by the coast station. [See Resolution No. A]

ARTICLE 39

Distress Communications

Section I. General

NOC 3086

NOC 3087

Section II. Distress Signal

MOD 3088 § 3. (1) The <u>Morse</u> radiotelegraph distress signal consists of the group, symbolized herein by SOS, transmitted as a single signal in which the dashes are emphasized so as to be distinguished clearly from the dots.

NOC 3089

MOD 3090 (3) These distress signals indicate that a ship, aircraft or other vehicle <u>[or persons]</u> is threatened by grave and imminent danger and requests immediate assistance.

Section III. Distress Call

MOD 3091

§ 4. (1) The distress call sent by <u>Morse</u> radiotelegraphy consists of:

- the distress signal SOS, sent three times;
- the word DE;
- the call sign of the mobile station in distress, sent three times.

NOC 3092

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Section IV. Distress Messages

MOD 3093 § 5. (1) The Morse radiotelegraph distress message consists of:

- the distress signal SOS;
- the name, or other identification, of the mobile station in distress;
- particulars of its position;
- the nature of the distress and the kind of assistance desired;
- any other information which might facilitate the rescue.

MOD 3094

- (2) The \underline{Morse} radiotelephone distress message consists of:
 - the distress signal MAYDAY;
 - the name, or other identification, of the mobile station in distress;
 - particulars of its position;
 - the nature of the distress and the kind of assistance desired;
 - any other information which might facilitiate the rescue.

MOD 3095

§ 6. (1) As a general rule, a ship shall signal its position in latitude and longitude (Greenwich), using figures for the degrees and minutes, together with one of the words NORTH or SOUTH and one of the words EAST or WEST. [In <u>Morse</u> radiotelegraphy, the signal shall be used to separate the degrees from the minutes; however, this shall not necessarily apply to the maritime mobilesatellite service.] When practicable, the true bearing and distance in nautical miles from a known geographical position may be given.

NOC 3096

MOD 3097

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(3) As a general rule, an aircraft in flight shall signal its position either in radiotelephony or <u>Morse</u> radiotelegraphy;

- by latitude and longitude (Greenwich) using figures for the degrees and minutes, together with one of the words NORTH or SOUTH and one of the words EAST or WEST; or - 5 -MOB-87/DT/33-E

- by the name of the nearest place, and its approximate distance in relation thereto, together with one of the words NORTH, SOUTH, EAST or WEST, as the case may be, or when practicable, by words indicating intermediate directions.

MOD 3098 (4) However, in <u>Morse</u> radiotelegraphy, the words NORTH or SOUTH and EAST or WEST, indicated in Nos. 3095 and 3097, may be replaced by the letters N or S and E or W.

Section V. Procedures

- MOD 3099 A. Morse Radiotelegraphy
- MOD 3100 § 7. (1) The Morse radiotelegraph distress procedure shall consist of:
- NOC 3101-3107
- MOD 3108 § 8. (1) The distress message, preceded by the distress call, shall be repeated at intervals, especially during the periods of silence prescribed in No. 3038 for <u>Morse</u> radiotelegraphy, until an answer is received.
- NOC 3109-3129
- MOD 3130 a) Morse Radiotelegraphy:
 - the distress signal \overline{SOS} ;
 - the call sign of the station sending the distress message, sent three times;
 - the word DE;
 - the call sign of the station acknowledging receipt, sent three times;
 - the group RRR;
 - the distress signal SOS.

NOC 3131-3137

MOD 3138

a) in <u>Morse</u> radiotelegraphy, the abbreviation QRT, followed by the distress signal <u>SOS;</u>

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NOC	3139			
NOC	3140			
MOD	3141		a)	in <u>Morse</u> radiotelegraphy, the abbreviation QRT, followed by the word DISTRESS and its own call sign;
MOD	3142		Ъ)	in radiotelephony, the word SEELONCE, pronounced as the French word "silence", followed by the word DISTRESS and its own call sign.
MOD	3143		eser	Morse radiotelegraphy, the use of the signal QRT $\overline{\text{SOS}}$ ved for the mobile station in distress and for the lling distress traffic.
NOC	3144-31	51		
MOD	3152	(3)	a)	In <u>Morse</u> radiotelegraphy, the message referred to in No. 3150 consists of:
				- the distress signal SOS;
				 the call "to all stations" (CQ) sent three times;
		t.		- the word DE;
				 the call sign of the station sending the message;
		· · · ·		 the name and call sign of the mobile station which was in distress;
				- the service abbreviation QUM.
MOD	3153		b)	In <u>Morse</u> radiotelegraphy, the message referred to in No. 3151 consists of:
		· ·	-	the distress signal \overline{SOS} ;
			-	the call "to all stations" (CQ) sent three times;
			-	the word DE;
			-	the call sign of the station sending the message;
			-	the time of handing in of the message;

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 the name and call sign of the mobile station which is in distress;

the service abbreviation QUZ.

NOC 3154-3163

Section VII. Transmission of a Distress Message by a Station Not Itself in Distress

MOD 3164

- a) Radiotelegraphy:
 - the signal DDD SOS SOS SOS DDD;
 - the word DE;
 - the call sign of the transmitting station, sent three times.

NOC 3165

MOD 3166 § 34. When the <u>Morse</u> radiotelegraph alarm signal is used, an interval of two minutes shall be allowed, whenever this is considered necessary, before the transmission of the call mentioned in No. 3164.

NOC 3167-3168

ARTICLE 40

Urgency and Safety Transmissions, and Medical Transports

Section I. Urgency Signal and Messages

MOD 3196 § 1. (1) In <u>Morse</u> radiotelegraphy, the urgency signal consists of three repetitions of the group XXX, sent with the letters of each group and the successive groups clearly separated from each other. It shall be transmitted before the call.

MOD 3197 (2) In radiotelephony, the urgency signal consists of three repetitions of the group of words PAN PAN, each word of the group pronounced as the French word "panne". The urgency signal shall be transmitted repeated three times before the call. - 8 -MOB-87/DT/33-E

NOC 3198-3200

- MOD 3201 (2) The urgency signal and message following it shall be sent on one or more of the international distress frequencies 500 kHz, 2 182 kHz, 156.8 MHz the supplementary distress frequencies [4 125 kHz and 6 215.5 kHz,] the aeronautical emergency frequency 121.5 MHz the frequency 243 MHz, or on any other frequency which may be used in case of distress.
- NOC 3202-3209

Section II. Medical Transports

MOD 3210 § 8. For the purpose of announcing and identifying medical transports which are protected under the above-mentioned Conventions, a complete transmission of the urgency signals described in Nos. 3196 and 3197 shall be followed by the addition of the single group YYY in Morse radiotelegraphy and by the addition of the single word MAY-DEE-CAL, pronounced as in French "médical", in radiotelephony.

NOC 3211-3220

Section III. Safety Signal and Messages

- MOD 3221 § 13. (1) In <u>Morse</u> radiotelegraphy, the safety signal consists of three repetitions of the group TTT, the individual letters of each group and the successive groups being clearly separated from each other. It shall be sent before the call.
- MOD 3222 (2) In radiotelephony, the safety signal consists of the word SÉCURITÉ pronounced clearly as in French, spoken three times and transmitted before the call. <u>The safety signal shall be</u> repeated three times before the call.
- NOC 3223
- MOD 3224 (2) The safety signal and call shall be sent on one or more of the international distress frequencies (500 kHz, 2 182 kHz, 156.8 MHz) or on any other frequency which may be used in case of distress. [See also No. N 3231.]

NOC 3225-3229

ARTICLE 41

Alarm and Warning Signals

MOD		ency Position-Indicating Radiobeacon and Satellite EPIRB signals
NOC	3255-3259	
ADD	c)) for ultra-high frequencies, e.g. in the bands 406 - 406.1 MHz and 1 645.5 - 1 646.5 MHz, [signals] whose characteristics shall be in accordance with relevant CCIR Recommendations.
NOC	3260-3267	
	Section II. I	Radiotelegraph and Radiotelephone Alarm Signals

MOD 3268

§ 5. (1) The <u>Morse</u> radiotelegraph alarm signal consists of a series of twelve dashes sent in one minute, the duration of each dash being four seconds and the duration of the interval between consecutive dashes one second. It may be transmitted by hand but its transmission by means of an automatic instrument is recommended.

MOD 3269 (2) Any ship station working in the bands between 415 kHz and 526.5 kHz which is not provided with an automatic apparatus for the transmission of the <u>Morse</u> radiotelegraph alarm signal shall be permanently equipped with a clock, clearly marking the seconds preferably by means of a concentric seconds hand. This clock shall be placed at a point sufficiently visible from the operator's table so that the operator may, by keeping it in view, easily and correctly time the different elements of the alarm signal.

NOC 3270-3273

MOD 3274

 a) in <u>Morse</u> radiotelegraphy, the actuation of automatic devices giving the alarm to attract the attention of the operator when there is no listening watch on the distress frequency;

NOC 3275-3278

[SUP] 3279 c) the loss of a person or persons overboard. In this case they may only be used when the assistance of other ships is required and cannot be satisfactorily obtained by the use of the urgency signal alone, but the alarm signal shall not be repeated by other stations. The message shall be preceded by the urgency signal (see Nos. 3196 and 3197).

MOD 3280 (2) In the cases referred to in Nos. 3278 and 3279, an interval of two minutes should, if possible, separate the end of the Morse radiotelegraph alarm signal and the beginning of the warning or the message.

- MOD 3281 § 9. Automatic devices intended for the reception of the Morse radiotelegraph and radiotelephone alarm signals shall meet the requirements specified in Appendix 36.
- NOC 3282-3283

Section IV. Navigational Warning Signal

- [MOD] 3284 § 12. (1) The navigational warning signal consists of one [substantially] sinusoidal tone of the frequency 2 220 Hz, interrupted so that the durations of tone and space are 250 milliseconds each.
- [MOD] 3285/ (2) The signal should be transmitted by coast stations continuously for a period of fifteen seconds before vital navigational warnings on radiotelephony in the medium frequency [or very high frequency] maritime bands.
- ADD 3285A (2A) In addition, the signal specified in No. 3284 may be transmitted on the carrier frequency 2 182 kHz by off-shore installations or structures in imminent danger of being rammed or by land stations that consider a ship is in imminent danger or running aground. The power of this transmission should, where practicable, be limited to the minimum necessary for reception by ships in the immediate vicinity of the off-shore installations or structures or land concerned.
- ADD 3285B (2B) The transmission specified in No. 3285A should be immediately followed by a transmission using radiotelephony giving the identity and position of the installation or structure. Land stations should provide as much identification and position information as possible. This transmission should be followed by a vital navigational warning.

NOC 3286

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ARTICLE 42

Special Services Relating to Safety

Section I. Meteorological Messages

NOC 3312-3325

MOD 3326 § 4. (1) Meteorological messages specially intended for all ship stations shall in principle be sent in accordance with a definite timetable, and, as far as possible, at times when they can be received by ship stations with only one operator. In <u>Morse</u> radiotelegraphy the transmission speed shall not exceed sixteen words a minute.

NOC 3327-3338

SUP

Section IV.

SUP 3339-3341

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Addendum 1 to Document DT/34-E 25 September 1987 Original: English

WORKING GROUP 4-A

Draft

FOURTH REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

1. Add the following text to Annex 1 of the Report, with the consequential change in the table on page 6:

ADD 677A

Additional allocation: in the Federal Republic of Germany, Austria, Cyprus, Denmark, Spain, Finland, France, Ireland, Italy, Lybia, Malta, Monaco, Morocco, Norway, the Netherlands, Portugal, the United Kingdom, Switzerland, Sweden and Turkey, the band 470 - 790 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting. Stations of the land mobile service in the countries mentioned in this footnote, shall not cause harmful interference to existing or planned stations operating in accordance with the Table of Frequency Allocations in countries other than those listed in this footnote.

> J. KARJALAINEN Chairman of Working Group 4-A

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INTERNATIONAL TELECOMMUNICATION UNION

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Draft

FOURTH REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

In addition to the items listed in the first report (Document 147), and in the 1. third report (Document 206), Working Group 4-A approved the modifications to Article 8 as contained in the annex to this report.

The Working Group decided not to ADD 517A (which was proposed by VTN, see 2. VTN/49/8 and 9). In this connection, the Delegation of Viet Nam asked that its statement concerning this issue be presented to Committee 4. The statement can be found in Annex 2 of this report.

With respect to MOD RR 701, the Delegations of Japan and the USSR have reserved 3. the right to revert back at Committee 4 level.

> J. KARJALAINEN Chairman of Working Group 4-A

Annexes: 2

ANNEX 1

MOD

Allocation to Services						
Region 1 Region 2 Region 3						
90 - 110						
RADIONAVIGATION 453						
Fixed						
Maritime Mobile -448						
	454 448A					

MOD 448 The use of the bands 14 - 19.95 kHz, 20.05 - 70 kHz and 70 - 90 kHz (72 - 84 kHz and 86 - 90 kHz in Region 1) and 90 -- -100 -kHz by the maritime mobile service is limited to coast radiotelegraph stations (AlA and FlB only). Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that normally used for class AlA or FlB emissions in the band concerned.

ADD 448A Additional allocation: in the United Kingdom the band 90 - 110 kHz is also allocated to the maritime mobile service on a secondary basis for coast radiotelegraph stations. - 3 -MOB-87/DT/34-E

kHz 1 605 - 1 800

	Allocation to Services		
Region 1	Region 2	Region 3	
	1605 - 1 625		
1 606.5 - 1 625	BROADCASTING 480	1 606.5 - 1 800	
MARITIME MOBILE <u>480A</u>		FIXED	
/ FIXED /		MOBILE	
/ LAND MOBILE /		RADIOLOCATION	
		RADIONAVIGATION	
483 484	481 <u>480A</u>		
1625 - 1 635	1 625 - 1 705	1	
RADIOLOCATION 487	BROADCASTING 480		
	/ FIXED /		
485 486	/ MOBILE /		
1 635 - 1 800	Radiolocation		
MARITIME MOBILE 480A			
/ FIXED /	481 <u>480A</u>		
/ LAND MOBILE /	1 705 - 1800		
	FIXED		
	MOBILE		
	RADIOLOCATION		
483 484 488	AERONAUTICAL RADIONAVIGATION	482	
	· · · · · · · · · · · · · · · · · · ·	ļ	

ADD 480A In cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.

MHz 87 - 108

	Allocation to Service	s
Region 1	Region 2	Region 3
		87 - 100
		FIXED
87.5 - 100	88 - 100	MOBILE
BROADCASTING	BROADCASTING	BROADCASTING
581 582		580
100 - 108	BROADCASTING	
	582 583 584 585 586 587 588 589 5 9	θ

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SUP 583

SUP 590

MHz 150.05 - 174

Allocation to Services				
Region 1	Region 2	Region 3		
150.05 - 153	150.05 - 156.7625			
FIXED	FIXED			
MOBILE except aeronautical mobile	MOBILE			
RADIO ASTRONOMY				
610 612				
153 - 154				
FIXED				
MOBILE except aeronautical mobile (R)				
Meteorological Aids				
154 - 156.7625				
FIXED				
MOBILE except aeronautical mobile (R)				
[613] [613A]	611 [613] [6	613A]		
156.7625 - 156.8375	MARITIME MOBILE (distress	s and calling)		
	501 [613] [613A]			
156.8375 - 174	156.8375 - 174			
FIXED	FIXED			
MOBILE except aeronautical mobile	MOBILE			
[613] 614 615 <u>613B</u>	[613] 616 6]	17 618		
	• • • • • • • • • • • • • • • • • • • •			

ADD 613B

Additional allocation: In Ireland and in the United Kingdom, the band 161.3875 - 161.4125 MHz is also allocated to the Maritime Radionavigation Service on a primary basis, subject to agreement obtained under the procedure set forth in Article 14. - 6 -MOB-87/DT/34-E

> • MHz 470 - 890

	Allocation to Services	۶ 	
Region 1	Region 2	Region 3	
470 - 790	470 - 512	470 - 585	
BROADCASTING	BROADCASTING	FIXED	
	Fixed	MOBILE	
	Mobile	BROADCASTING	
	674 675		
	512 - 608	673 677 679	
	BROADCASTING	585 - 610	
	678	FIXED	
	608 - 614	MOBILE	
	RADIOASTRONOMY	BROADCASTING	
	Mobile-Satellite	RADIONAVIGATION	
	except aeronautical mobile-satellite (Earth-to-space)	688 689 690	
676 680 601 682 683 684 685 686 687 689 693 694	614 - 806 BROADCASTING	610 - 890 FIXED MOBILE	
790 862 FIXED	Fixed Mobile	BROADCASTING	
BROADCASTING	675 692 693 <u>693A</u>		
694 695 696 <u>695A</u> 697 698 699 702	806 - 890 FIXED		
862 - 890	MOBILE		
FIXED	BROADCASTING		
MOBILE except aeronautical mobile			
BROADCASTING 703 699 704	700 <u>693A</u>	677 688 689 690 691 693 701	

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- ADD 693A Additional allocation: in Cuba, the band 614 890 MHz is also allocated to the radionavigation service on a primary basis, subject to agreement obtained under the procedure set forth in Article 14.
- MOD 697 (by adding EGY)

MOD 700

Additional allocation: in Region 2, the band 806 - 890 <u>896</u> MHz is also allocated to the mobile-satellite, except aeronautical mobile-satellite, service on a primary basis. The use of this service is intended for operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14.

MOD 701

Additional allocation: in Region 3, the bands 806 - 890 MHz and 942 - 960 MHz are also allocated to the mobile satellite, except aeronautical mobile-satellite (R) service on a primary basis. The use of this service is limited to operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14. This service shall-not cause harmful-interference-to-services operating-in-accordancewith-the Table.

MHz

890 - 960

Allocation to Services				
Region 1 Region 2 Region				
890 - 942	890 - 902	890 - 942		
FIXED	FIXED	FIXED		
MOBILE except aeronautical mobile BROADCASTING 703 Radiolocation	MOBILE'except aeronautical mobile Radiolocation 705 902 - 928 FIXED Amateur Mobile except aeronautical mobile	MOBILE BROADCASTING Radiolocation		
	Radiolocation 705 707 <u>705A</u> 928 - 942 FIXED MOBILE except aeronautical mobile Radiolocation			
704	705	706		
942 - 960	942 - 960	942 - 960		
FIXED	FIXED	FIXED		
MOBILE except aeronautical mobile BROADCASTING 703	Mobile	MOBILE BROADCASTING		
699 704	708	701		

ADD 705A

In Chile, the band 903 - 905 MHz is allocated to the mobile except aeronautical mobile service on a primary basis and is subject to agreement obtained under the Article 14 procedure.

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MHz 1 700 - 1 710

Allocation to Services					
Region 1 Region 2 Region 3					
1 700 - 1 710 1 700 - 1 710					
FIXED	FIXED				
METEOROLOGICAL- SATELLITE (space-to-Earth) Mobile except aeronautical mobile	METEOROLOGICA (space-to-Ea MOBILE except				
671 722 <u>743A</u>	671 722 743	;			

ADD 743A

Different category of service: In the Federal Republic of Germany, the United Kingdom, the Netherlands and Switzerland, the allocation of the bands 1 700 - 1 710 MHz and 2 290 - 2 300 MHz to the mobile, except aeronautical mobile, service is on a primary basis, subject to agreement obtained under the procedure set forth in Article 14.

Allocation to Services						
Region 1	Region 2	Region 3				
1 710 - 2 990	1 710 - 2 290					
FIXED	FIXED					
Mobile	MOBILE					
722 744 746 <u>743B</u> 747 748 750	722 744 745 747 748 749					

MHz 1 710 - 2 290

ADD 743B

<u>Different category of service</u>: In the Federal Republic of Germany, the United Kingdom, the Netherlands and Switzerland, the allocation of the band 1 710 - 2 290 MHz to the mobile service is on a primary basis, subject to agreement obtained under the procedure set forth in Article 14.

	Allocation to Services	1
Region 1	Region 2	Region 3
2 290 - 2 300	2 290 - 2 300	·····
FIXED	FIXED	
SPACE RESEARCH	MOBILE except	t aeronautical mobile
(deep space) (space-to Earth)		CH (deep space)
Mobile except aeronautical mobile		
<u>743A</u>		····· · ·
2 300 - 2 450	2 300 - 2 450	
FIXED	FIXED)) },
Amateur	MOBILE	
Mobile	RADIOLOCATION	1
Radiolocation	Amateur	
664 752 <u>743C</u>	664 751 752	2

MHz 2 290 - 2 450

ADD 743C <u>Different category of service</u>: In the Federal Republic of Germany, the United Kingdom, and the Netherlands, the allocation of the band 2 300 - 2 450 MHz to the mobile service is on a primary basis, subject to agreement obtained under the procedure set forth in Article 14.

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ANNEX 2

Statement by the delegate of Viet-Nam at the meeting ofWorking Group 4-A on 23 September 1987 concerning proposals VTN/49/8 and VTN/49/9

Mr. Chairman,

During the discussions at the last meeting of Working Group 4-A and after consultations held since then, the Delegation of the Vietnamese Administration has agreed that its proposal should not be mentioned in a footnote as had been proposed. The Vietnamese Delegation requests you to state in Working Group 4-A's report to Committee 4 that Viet-Nam intends to allocate the frequency band 4 000 - 4 063 kHz on its territory to the fixed service on a primary basis and to the maritime mobile service on a secondary basis, at a time still to be determined.

Thank you, Mr. Chairman.



1.1

Document DT/35-E 25 September 1987 Original: English

COMMITTEE 6

Draft

NOTE FROM THE CHAIRMAN OF COMMITTEE 6 TO THE CHAIRMAN OF COMMITTEE 4

Following a request from the Chairman of the Technical Working Group of the Plenary, Working Group 6-A has reviewed proposals USA/24/719 and USA/24/720.

In order to have an opinion on this matter, the Working Group requests your decision on the status of channel 13. Proposal USA/24/716 relates to channel 13 and is the responsibility of Committee 4.

> I.R. HUTCHINGS Chairman of Committee 6

NICHNAL TELECOMMENTS SERVICES WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/36-E 23 September 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

NOTE BY THE CHAIRMAN OF THE TECHNICAL WORKING GROUP OF THE PLENARY

Committee 4 in Document 197 asks for advice on the technical feasibility of using the ship station frequencies of the new NBDP (paired) channels as AlA Morse telegraphy working frequencies by the ship stations. The annex contains an extract of the final acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), Geneva, 1985 which might be of use in answering that question. That conference also decided that in the frequency bands between 415 and 526.5 kHz, A1A emissions may be used on F1B assignments and vice versa.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

ANNEX

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, $\sigma = 5$ S/m and $\epsilon = 70$. 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 4.1; they refer to an e.m.r.p. of 1 kW.

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 AIA

1.14

Bands 415 - 435 kHz and 435 - 526.5 kHz: 36.5 dB(μ V/m) north of and on parallel 30° North, and 56.5 dB(μ V/m) south of parallel 30° North.

1.3.2 Class of emission FIB

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

Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz: 22.5 dB(μ V/m) north of and on parallel 30° North, and 42.5 dB(μ V/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(μ V/m) north of and on parallel 30° North, and 57 dB(μ V/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:

		Protection ratio in dB	7 1
Frequency separation	Wanted signal		
between wanted and interfering signal in kHz	AIA	F1 B	J3E
	Interfering signal A1A or F1B	Interfering signal F1B or A1A	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 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.

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/37-E 24 September 1987 Original: English

Source: DL/6-E DT/20

WORKING GROUP 6-A

Draft

REPORT BY THE CHAIRMAN OF WORKING GROUP 6-A TO THE CHAIRMAN OF COMMITTEE 6

In order to assist Working Group 6-A, attached is a revised Appendix 11.

R. SWANSON Chairman of Working Group 6-A

Attachment: 1

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ATTACHMENT

APPENDIX 11

- MOD
 Documents with Which Stations on Board Ships and Aircraft Stations

 Shall be Provided
- MOD Section I. Ship Stations for Which a <u>Morse</u> Radiotelegraph Installation is Required by International Agreement
- NOC These stations shall be provided with:
- NOC 1.
- NOC 2.
- MOD 3. the <u>a</u> log (diary of the radio service) in which the following are recorded as they occur, together with the time of the occurrence, <u>unless</u> <u>administrations have adopted other arrangements for recording all</u> information which the log should contain:
- NOC a) to g)
- NOC 4.
- NOC 5.
- NOC 6.
- NOC 7.
- MOD 8. the Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services*;

* Nos. 347 and 348 should be included by the General Secretariat in the Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services.

<u>Reasons</u>: To ensure that these important provisions relating to distress radiocommunications are included in the "Maritime Manual".

- NOC 9. telegraph tariffs of the countries for which the station most frequently accepts radiotelegrams.
- MODSection II. Other Ship Stations with MorseRadiotelegraph Stations_Facilities
- NOC These stations shall be provided with the documents mentioned in items 1 to 6, 8 and 9 of Section I.

NOC	Section III. Ship Stations for Which a Radiotelephone Installation Is Required by International Agreement
NOC	These stations shall be provided with:
NOC	1.
NOC	2.
MOD	3. the <u>a</u> log (diary of the radio service) in which the following are recorded as they occur, together with the time of the occurrence, <u>unless</u> administrations have adopted other arrangements for recording all information which the log should contain:
SUP	b)
(MOD)	e) <u>b)</u>
(MOD)	d) <u>c)</u>
NOC	4.
NOC	5.
NOC	Section IV. Other Ship Radiotelephone Stations
NOC	These stations shall be provided with:
NOC	1.
NOC	2.
NOC	Section V. Ship Stations Equipped with Multiple Installations
NOC	These stations shall be provided with:
NOC	1.
NOC	2.

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Section VA. Stations on board Ships Participating in the GMDSS

These stations shall be provided with:

- 1. the license prescribed by Article 24;
- 2. certificates of [operator or operators];
- 3. a log in which the following are recorded as they occur, together with the time of their occurrence, unless administrations have adopted other arrangements for recording all information which the log should contain;
 - a summary of communications relating to distress, urgency and safety traffic,
 - b) a reference to important service incidents,
 - c) if the ship's rules permit, the position of the ship at least once a day;
- 4. the Alphabetical List of Call Signs and/or Numerical Table of Identities of Stations Used by the Maritime Mobile Service and/ Maritime Mobile-Satellite Service (Coast, Coast Earth, Ship, Ship Earth, Radiodetermination and Special Service Stations), Ship and Ship Earth Stations, Maritime Mobile Service Identities and Selective Call Numbers or Signals, and Coast and Coast Earth Stations, Maritime Mobile Service Identities and Identification Numbers or Signals (List VIIA);
- 5) a list of selected coast stations and coast earth stations in accordance with Nos. N 3038 and N 3038B of the Radio Regulations; a list of coast stations and coast earth stations with which communications are likely to be conducted, showing watchkeeping hours, frequencies and charges; and a list of coast stations which provide navigational and meteorological warnings and urgent information for ships;
- 6) the List of Ship Stations (the carriage of the supplement is optional);
- 7) the Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services.

 \underline{Note} - Administrations may, under appropriate circumstances (for example, when ships are sailing only within range of VHF coast stations) exempt ships from the carriage of the documents mentioned in paragraphs 4 to 7 above.

MOD	Section VI.	Aireraft	Stations	on Board
	and Ai	rcraft Ea	cth Stati)ns

NOC These stations shall be provided with:

NOC 1.

MOD 2. The log (diary of the radio service) as defined in item 3 of <u>Section I</u>, unless administrations have adopted other arrangements for recording all information which the log should contain.

NOC 3.

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/38-E 24 September 1987 Original: English

Source: DL/3 p. 12 and 13 Document 15 WORKING GROUP 5-B

Draft

FOURTH REPORT BY WORKING GROUP 5-B TO COMMITTEE 5

1. The Working Group approved the texts as shown in the annex.

2. The Delegation of Greece made a reservation with respect to No. 3038.

3. With respect to ADD 3038A, there were reservations by the Delegations of Greece, France and the Islamic Republic of Iran.

4. With respect to No. 3040, the Delegation of Greece reserved its position with respect to the reduction of the guard band.

T. HAHKIO Chairman of Working Group 5-B

- 2 -MOB-87/DT/38-E

Section III. Watch on Distress Frequencies

3037 A. 500 kHz

- MOD 3038 § 19. (1) In order to increase the safety of life at sea and over the sea, all stations of the maritime mobile service normally keeping watch on frequencies in the authorized bands between 415 kHz and 526.5 kHz which employ Morse telegraphy shall, during their hours of service, take the necessary measures to ensure watch on the international distress frequency 500 kHz for three minutes twice an hour beginning at x h 15 and x h 45, Coordinated Universal Time (UTC) by an operator using headphones or loudspeaker. [See also Resolution A].
- ADD 3038A (2) No. 3038 does not apply to a coast station open to public correspondence when its operational area for distress purposes is covered by one or more coast stations keeping watch on 500 kHz in accordance with an agreement between the administrations concerned. These administrations shall inform the Secretary-General of the details of such agreements for publication in the List of Coast Stations (see Article 26 and Appendix 9).
- NOC 3039
- MOD 3040
- a) transmissions shall cease in the bands between 485 <u>495</u> kHz and 515 <u>505</u> kHz (see also Resolution 206 (Mob-83));
- MOD 3041 b) outside these bands, transmissions of stations of the mobile service may continue; stations of the maritime mobile service may listen to these transmissions on the express condition that they first ensure watch on the distress frequency as required by No. 3038. [See also Resolution A.]
- MOD 3042 § 20. (1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 415 kHz and 526.5 kHz shall, during their hours of service, remain on watch on 500 kHz <u>except in the situation</u> <u>referred to in No. 3038A</u>. This watch is obligatory only for class A2A and H2A emissions. [See also Resolution A.]
- MOD 3043 (2) These stations, while observing the requirements provisions of No. 3038, are authorized to relinquish this watch only when they are engaged in communications on other frequencies.

- NOC 3044
- NOC 3045
- NOC 3046
- MOD 3046A (4) Ship stations, while observing the requirements provisions of No. 3038, are also authorized to relinquish this watch¹ when it is impractical to listen by split headphones or by loudspeaker, and by order of the master in order to repair or carry out maintenance required to prevent imminent malfunction of:
- NOC 3046B
- NOC 3046C
- NOC 3046D
- NOC 3046E
- NOC 3047 B. 2 182 kHz
- MOD 3048 § 21. (1) Coast stations which are open to public correspondence and which form an essential part of the coverage of the area for distress purposes shall, during their hours of service, maintain a watch on 2 182 kHz. [See Resolution A].
- NOC 3049
- NOC 3050
- NOC 3051

MOD 3046A.1 ¹For additional information see the relevant provisions of the International Convention for the Safety of Life at Sea. [See Resolution A.] **NOB-87** INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

<u>Document DT/39-E</u> 25 September 1987 <u>Original</u>: English

WORKING GROUP 5 AD HOC 1

Note by the Chairman of Working Group 5 ad hoc 1

DRAFT RESOLUTION No. [COM5/2]

The Study and Implementation of a Distress and Safety Service for uninhabited and Remote Areas of the World

The above-mentioned Resolution was agreed to in its basic features at the Working Group's first meeting on 23 September.

A revised version, which takes into account the modifications made at that meeting, as well as the addition of a new paragraph on legal instruments prepared by the delegates of France and the Netherlands, is attached.

> R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

Annex: 1

- 2 -MOD-87/DT/39-E

DRAFT

RESOLUTION No. [COM5/2]

Relating to the Study and Implementation of a Global Land and Maritime Distress and Safety System

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the basic requirements for the Global Maritime Distress and Safety System (GMDSS) have been developed by IMO to meet the specific needs of the maritime mobile and maritime mobile-satellite services;

b) that stations of the land mobile and land mobile-satellite services may use the frequencies and procedures of the GMDSS in uninhabited and remote areas for distress and safety purposes;

c) that further development of the communication facilities incorporated in the GMDSS would enable the system also to meet the specific needs of the land mobile and land mobile-satellite services for distress and safety;

noting

that the CCIR contributed substantially to the development of the GMDSS by carrying out appropriate technical and operational studies;

noting further

that the WARC MOB-83 had already decided that the stations of the land mobile service in uninhabited and remote areas may be authorized to use the frequencies of the then FGMDSS on condition that no harmful interference was caused to other distress and safety communications, [See Resolution No. 203 (MOB-83)];

recognizing

a) that this Conference has adopted provisions to facilitate the implementation of the GMDSS;

b) that administrative, technical and operational studies appropriate to the land mobile and land mobile-satellite services need to be conducted before detailed provisions relating to the distress and safety requirements of these services can be incorporated into the Radio Regulations;

resolves

1. that a future competent conference be invited to include, as necessary, provisions in Chapter N IX to ensure adequate distress and safety communications in uninhabited and remote areas of the world;

requests the CCIR

1. to study the requirements for distress and safety communications in uninhabited and remote areas of the world by the land mobile and land mobilesatellite services, including the technical and operational characteristics of equipment, which is simple to operate and of low cost, for use in the global land and maritime distress and safety system;

invites administrations

1. actively to contribute to and participate in the work of the CCIR;

2. to establish the relevant international legal instruments for the implementation of such a system;

3. to permit the use of the appropriate equipment within areas under their national jurisdiction;

invites the Administrative Council

to take the necessary steps to place this matter on the agenda of the next competent WARC;

requests the Secretary-General

to communicate this Resolution to IMO and ICAO.

NOBBB RATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/40-E 25 September 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

FOURTH REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary having considered all relevant 1. proposals has adopted:

- modifications to Appendix 37A to the Radio Regulations; a complete text of a) Appendix 37A as modified is contained in Annex 1;
- modifications to Recommendation No. 604(Rev.Mob-83) which are contained in b) Annex 2).

The Technical Working Group of the Plenary decided that Appendices 37 and 39 to 2. the Radio Regulations shall be maintained unchanged.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annexes: 2

ANNEX 1

APPENDIX 37A Mob-837

Technical Characteristics of Emergency Position-Indicating Radiobeacons Operating on the Carrier Frequencies 121.5 MHz and 243 MHz

(See Section I of Article 41)

Emergency position-indicating radiobeacons operating on the carrier frequencies 121.5 MHz and 243 MHz shall fulfil the following conditions: $^{\rm I}$

- emission in normal antenna conditions and positions shall be vertically polarized and essentially shall be omnidirectional in the horizontal plane;
- b) carrier frequencies shall be amplitude-modulated (minimum duty cycle of 33%), with a minimum modulation index depth of modulation of 0.85;
- c) the emission shall consist of a characteristic audiofrequency signal obtained by amplitude modulation of the carrier frequencies with a downward audio-frequency sweep within a range of not less than 700 Hz between 1 600 Hz and 300 Hz and with a sweep repetition rate of 2 to 4 times per second;

¹ Additional characteristics for emergency position-indicating radiobeacons aboard aircraft are specified in the relevant annexes to the Convention on International Civil Aviation.

MOD

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- d) the emission should include a clearly defined carrier frequency distinct from the modulation sideband components; in particular, on 121.5 MHz at least 30 percent of the power shall be contained within ± 30 Hz of the carrier frequency at all times, and on 243 MHz at least 30 percent of the power shall be contained within ± 60 Hz of the carrier frequency at all times;¹
- <u>e)</u> the class of emission shall be A3X; however, any type of modulation which satifies the requirements laid down in b),
 <u>c)</u> and <u>e</u> <u>d</u> above may be used, provided it does not impair the precise location of the radiobeacon. by the homing equipment.

^{1 &}lt;u>Early implementation of these characteristics for new</u> equipment is strongly recommended (see also Recommendation No. 604(Rev.Mob-87)).

ANNEX 2

D RE

RECOMMENDATION No. 604(Rev.Mob-837)

Relating to the Future Use and Characteristics of Emergency Position-Indicating Radiobeacons

The World Administrative Radio Conference for the Mobile Services, Geneva, 19837,

NOC considering a) to e)

recognizing

MOD a) that there are provisions in the Radio Regulations for EPIRBs on the frequencies 2 182 kHz, 121.5 MHz, 243 MHz, and in the bands 406 - 406.1 MHz; and 1 645.5 to 1 646.5 MHz;

SUP b)

- (MOD) c): renumber b)
- ADD c) that there is a need to improve the detection and location function of 121.5/243 MHz EPIRBs by satellite systems,

recommends

- NOC 1 and 2.
- ADD 3. that the CCIR and ICAO study, as a matter of urgency, the technical and operational questions resulting from the addition of paragraph d) to Appendix 37A.
- NOC request

MOD



Document DT/41(Rev.1)-E 28 September 1987 Original: English

COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

Attached are the revised lists of proposed new Resolutions and new Recommendations to be considered by the Working Groups of Committee 4.

O. VILLANYI Chairman of Committee 4

Annexes: 2

- 2 -MOB-87/DT/41(Rev.1)-E

ANNEX 1

New Resolutions

Proposal No.	Provisional No.	4 - A	4 - B	4 - C	Remark
CEPT-13/20/10	[B]		x	(x)	PR: 4-B
CEPT-13/20/11	[C]		x	(x)	PR: 4-B
CEPT-13/20/12	[D]		x	(x)	PR: 4-B
CEPT-13/20/13	[E]		x	(x)	PR: 4-B
CEPT-13/20/14	[F]		x	(x)	PR: 4-B
CEPT-14/21/1	[G]	x			
CEPT-15/22/1	[H]	x			
USA/24/781	[A1]	x			
USA/24/782	[A2]		x		
USA/24/783	[A3]		x		
USA/24/784	[A4]		x		
USA/24/786	[A6]			x	
USA/24/787	[A7]			x	
USA/24/789	[A9]		x		
USA/24/790	[A10]		x	(x)	PR: 4-B
USA/24/791	[A11]		x	(x)	PR: 4-B
USA/24/792	[A12]		x	(x)	PR: 4-B
USA/24/793	[A13]	x			
USA/24/794	[A14]	x			
D/30/100	[1]	x			,
URS/32/172	[URS-B]		x	(x)	PR: 4-B
G/33/1	[UK/A]	x			
G/33/370	[UK/C]		x		
AUS/40/438	AUS - B		x		

PR = Primary responsibility Responsabilité primaire Responsabilidad primaria - 3 -MOB-87/DT/41(Rev.1)-E +

Proposal No.	Provisional No.	4 - A	4 - B	4 - C	Remark
AUS/40/439	AUS - C		x		
AUS/40/440				x	
CAN/25/499	[B]	x	(x)	PR: 4-B	
CAN/24/500	[C]			(x)	PR: TWG/PL
CAN/25/501	[D]		x	(x)	PR: 4-B
CAN/25/502	[E]		x		
NORD/52/1	-		x		
HOL/55/1	HOL-C		x		
AUS/40/580	AUS - E	x			•
I/97/3	-	x			
PRG/61/149			x		

PR = Primary responsibility Responsabilité primaire Responsabilidad primaria

- 4 -MOB-87/DT/41(Rev.1)-E

ANNEX 2

New Recommendations

Proposal No.	Provisional No.	4 - A	4 - B	4 - C
CEPT-3/10/11	Rec. A	x		
CEPT-4/11/11	Rec. B	x		
CEPT-16/23/1	Rec. C	x		
USA/24/817	[B1]	x		
USA/24/818	[B2]	x		
G/33/60	[A]	x		
F/45/1	-	x		
F/47/1	[A]	x		
HOL/53/2	[HOL A]	x		
S/75/8	В	x		
I/97/4	-	x		
I/97/7	-	x		
I/97/15	В	x		
F/104/1	-	x		
AUS/40/593	AUS - 1	x		

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NOBBOR INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/41-E 25 September 1987 Original English

COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

Attached are the lists of proposed new Resolutions and new Recommendations to be considered by the Working Groups of Committee 4.

> 0. VILLANYI Chairman of Committee 4

Annexes: 2

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ANNEX 1

New Resolutions

Proposal No.	Provision No.	4-A	4 - B	4-C	Remark
CEPT-13/20/10	[B]		x	(x)	PR: 4-B
CEPT-13/20/11	[C]		x	(x)	PR: 4-B
CEPT-13/20/12	[D]		x	(x)	PR: 4-B
CEPT-13/20/13	[E]		x	(x)	PR: 4-B
CEPT-13/20/14	[F]		x	(x)	PR: 4-B
CEPT-14/21/1	[G]	x			
CEPT-14/21/1	[H]	x			
USA/24/781	[A1]	x			
USA/24/782	[A2]		x		
USA/24/783	[A3]		x		
USA/24/784	[A4]		x		
USA/24/786	[A6]			x	
USA/24/787	[A7]			x	
USA/24/789	[A9]		x		
USA/24/790	[A10]		x	(x)	PR: 4-B
USA/24/791	[A11]		x	(x)	PR: 4-B
USA/24/792	[A12]		x	(x)	PR: 4-B
USA/24/793	[A13]	x			
USA/24/794	[A14]	x			
D/30/100	[1]	x			
URS/32/172	[URS-B]		x	(x)	PR: 4-B
G/33/1	[UK/A]		x		
G/33/370	[UK/C]	x			
AUS/40/438	AUS - B		x		

PR - Primary responsibility Responsabilité primaire Responsabilidad primaria - 3 -MOB-87/DT/41-E

Proposal No.	Provision No.	4 - A	4 - B	4 - C	Remark
AUS/40/439	AUS - C		x		
AUS/40/440				x	
CAN/25/499	[B]		x	(x)	PR: 4-B
CAN/24/500	[C]	[C]			PR: TWG/PL
CAN/25/501	[D]		x	(x)	PR: 4-B
CAN/25/502	[E]		x		
NORD/52/1	-		x		
HOL/55/1	HOL-C		x		
AUS/40/580	AUS - E	x			
I/97/3	-	x			

PR = Primary responsibility Responsabilité primaire Responsabilidad primaria

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ANNEX 2

New Recommendations

Proposal No.	Provision No.	4-A	4 - B	4 - C
CEPT-3/10/11	Rec. A	x		
CEPT-4/11/11	Rec. B	x		
CEPT-16/23/1	Rec. C	x		
USA/24/817	[B1]	x		
USA/24/818	[B2]	x		
G/33/60	[A]	x		
F/45/1	-	x		
F/47/1	[A]	x		
HOL/53/2	[HOL A]	x		
S/75/8	В	x		
I/97/4	-	x		
I/97/1	-	x		
I/97/15	В	x		
F/104/1	-	x		

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INTERNATIONAL TELECOMMUNICATION UNION WOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA September-October 1987

GENEVA, September-October 1987

Document DT/42-E 26 September 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

FIFTH REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary considered all proposals concerning Appendix 20 to the Radio Regulations and adopted the modifications appearing in the annex.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

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ANNEX

MOD

APPENDIX 20

Characteristics of Equipment Used for On-Board Communication in the 450 - 470 MHz Bands

(See Nos. 699 and 670)

NOC §§ 1 to 8

(MOD) Renumber existing §§ 9 to 11.

ADD § 9. The frequencies specified in No. 669 for on-board communications may be used for single-frequency and two-frequency simplex operation.

[USA/24/721] ADD

§ 10. For ships using these on-board frequencies in survival craft two-way radiotelephones, the survival craft radiotelephones shall be capable of transmitting and receiving the frequency 457.525 MHz.

Document DT/43-E 26 September 1987 Original: English

WORKING GROUP 5 AD HOC 1

Draft

FIRST REPORT OF WORKING GROUP 5 AD HOC 1 TO COMMITTEE 5

The Working Group has held two meetings. The second meeting adopted the text of 1. draft Resolution No. [COM5/2], with paragraph 2 of "invites administration" modified, as attached in the annex.

It was agreed that the following Resolutions allocated to Committee 5 be 2. suppressed:

SUP Resolution No. 203

SUP Resolution No. 317

SUP Resolution No. 321

3. It was agreed to place the suppression of Resolution No. 318 in square brackets:

[SUP] Resolution No. 318

pending confirmation that the annex to the Resolution has been moved to the body of the Radio Regulations by Committee 4. Committee 5 is requested to bring this matter to the attention of Committee 4.

> R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

ANNEX

DRAFT

RESOLUTION No. [COM5/2]

Relating to the Study and Implementation of a Global Land and Maritime Distress and Safety System

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the basic requirements for the Global Maritime Distress and Safety System (GMDSS) have been developed by IMO to meet the specific needs of the maritime mobile and maritime mobile-satellite services;

b) that stations of the land mobile and land mobile-satellite services may use the frequencies and procedures of the GMDSS in uninhabited and remote areas for distress and safety purposes;

c) that further development of the communication facilities incorporated in the GMDSS would enable the system also to meet the specific needs of the land mobile and land mobile-satellite services for distress and safety;

noting

that the CCIR contributed substantially to the development of the GMDSS by carrying out appropriate technical and operational studies;

noting further

that the WARC MOB-83 had already decided that the stations of the land mobile service in uninhabited and remote areas may be authorized to use the frequencies of the then FGMDSS on condition that no harmful interference was caused to other distress and safety communications, [See Resolution No. 203 (MOB-83)];

recognizing

a) that this Conference has adopted provisions to facilitate the implementation of the GMDSS;

b) that administrative, technical and operational studies appropriate to the land mobile and land mobile-satellite services need to be conducted before detailed provisions relating to the distress and safety requirements of these services can be incorporated into the Radio Regulations;

resolves

that a future competent conference be invited to include, as necessary, provisions in Chapter N IX to ensure adequate distress and safety communications in uninhabited and remote areas of the world;

requests the CCIR

to study the requirements for distress and safety communications in uninhabited and remote areas of the world by the land mobile and land mobile-satellite services, including the technical and operational characteristics of equipment, which is simple to operate and of low cost, for use in the global land and maritime distress and safety system;

invites administrations

1. actively to contribute to and participate in the work of the CCIR;

2. to establish all legislative or other appropriate measures for the implementation of such a system;

3. to permit the use of the appropriate equipment within areas under their national jurisdiction;

invites the Administrative Council

to take the necessary steps to place this matter on the agenda of the next competent WARC;

requests the Secretary-General

to communicate this Resolution to IMO and ICAO.

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/44-E 25 September 1987 Original : French

BUDGET CONTROL COMMITTEE

Note by the Secretary-General

LIST OF RECOGNIZED PRIVATE OPERATING AGENCIES AND INTERNATIONAL

ORGANIZATIONS CONTRIBUTING TO THE WORK OF THE CONFERENCE

No. of contributory units

I.	Recognized private operating agencies							
	None							
II.	International organizations							
II.1	United Nations *)							
II.2	Specialized agencies							
	International Civil Aviation Organization	*)						
	International Maritime Organization	*)						
	World Meteorological Organization	*)						
II.3	Regional telecommuication organizations							
	European Conference of Postal and Telecommunications Administrations	*)						
	Arab Telecommunication_Union	*)						
	Panafrican Telecommunication Union	*)						
II.4	Other international organizations							
	European Space Agency	1/2						
	International Air Transport Association	*)						
	International Association of Lighthouse Authorities	1/2						
	International Chamber of Shipping	1/2						

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.

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International Committee of the Red Cross	*)
International Maritime Radio Association	*)
International Electrotechnical Commission	*)
International Transport Workers' Federation	1/2
International Maritime Satellite Organization	**)
International Telecommunications Satellite Organization	**)
International Society for Aeronautical Telecommunications	1/2
International Amateur Radio Union	*)

*) Exempted from any contribution by Administrative Council Resolution No. 925.

**) The class of contribution has not yet been chosen.

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INTERNATIONAL TELECOMMUNICATION UNION

NOB-87 WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/45-E 28 September 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

NOTE FROM THE CHAIRMAN OF THE TECHNICAL WORKING GROUP OF THE PLENARY TO THE CHAIRMAN OF COMMITTEE 4

USE OF A1A MORSE TELEGRAPHY ON NBDP CHANNELS

The Technical Working Group of the Plenary having studied the question raised in Document 197 concludes that it is technically feasible to use the ship station frequencies of the new NBDP (paired) channels as AlA Morse telegraphy working frequencies by ship stations.

This conclusion takes account of the following:

Co-channel and non-co-channel protection ratio values (combinations of 1. wanted and unwanted emissions: AlA/AlA, AlA/FlB, FlB/AlA, FlB/FlB), adopted at the Regional Administrative Conference for the Planning of the Maritime and Aeronautical Radionavigation Services (Region 1), Geneva, 1985 for the bands between 415 and 526.5 kHz, support this conclusion. It is worth noting that that conference decided that AlA emissions may be used on FlB assignments and vice-versa in the above-indicated bands.

2. Interference to wanted Morse telegraphy (AlA) signals from unwanted AlA and narrow-band direct-printing (essentially F1B) signals has been considered.

Interference to wanted narrow-band direct-printing (essentially F1B) 3. signals from unwanted AlA and F1B signals has been considered.

Narrow-band direct-printing was considered to be essentially frequency 4. shift-keying telegraphy (F1B) since narrow-band phase shift keying telegraphy (G1B) would only be used in exceptional cases. Furthermore, NBPSK has a smaller transmission bandwidth than FSK when using the same modulation rate and thus a memoreduced interference potential. The worst case regarding interference to an AlA signal will therefore be FSK (F1B). NBPSK at 200 bauds (two independent subchannels) can be disregarded because it is even more exceptional than NBPSK at 100 bauds.

5.

Co-channel and non-co-channel interference has been considered.

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6. With regard to co-channel interference some administrations expressed the view that for a wanted Morse telegraphy signal an interfering NBDP signal of high level was more disturbing to the operator than an interfering Morse telegraphy signal of about the same level. The majority view, however, was that this did not apply to the case where the required co-channel protection ratio of 8 dB (i.e. the value adopted at the Conference mentioned in paragraph 1 for all possible combinations of wanted and unwanted AlA and FlB signals) was attained.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/46-E 28 September 1987 Original: English

WORKING GROUP 5-A

Draft

THIRD REPORT OF WORKING GROUP 5-A TO COMMITTEE 5

1. In its sixth, seventh, eighth, ninth and tenth meetings, Working Group 5-A continued its consideration of Article N 39 and approved the texts attached in the annex.

2. N 3173B, N 3182 and N 3183A were left in square brackets pending advice from INMARSAT.

3. A Drafting Group was established with the delegate of the Federal Republic of Germany as convenor to consider how best Section C (N 3195G-N 3195K) was to be included in the Radio Regulations.

U. HAMMERSCHMIDT Chairman of Working Group 5-A

Annex: 1

- 2 -MOB-87/DT/46-E

ANNEX

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DL/30	ADD		ARTICLE N 39
DL/30	ADD	C	Operational Procedures for Distress and Safety Communications <u>in the GMDSS</u>
DL/30	ADD		Section I. General
DL/30	ADD	N 3169	Communications for distress and safety situations rely on the use of terrestrial MF, HF and VHF radiocommunications and communications using satellite techniques.
DL/30	ADD	N 3170	The distress alert (see No. N 3172) shall be sent through a satellite either with absolute priority in general communication channels or on exclusive distress and safety frequencies or, alternatively, on the distress and safety frequencies in the MF, HF and VHF bands using digital selective calling.
DL/30	ADD	N 3171	The distress alert (see No. N 3172) shall be sent only on the authority of the person responsible for the ship, aircraft or other vehicle carrying the mobile station or the ship earth station.
DL/30	ADD	N 3170A	All stations which receive an alert transmitted by digital selective calling shall immediately cease any transmission capable of interfering with distress traffic and shall continue watch until the call has been acknowledged.
DL/30	ADD	N 3171A	Digital selective calling shall be in accordance with the relevant CCIR Recommendations.

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DL/30	مم	Section II Distrong Alerting
	ADD	Section II. Distress Alerting
:		A. General
DL/30	ADD	N 3172 The transmission of a distress alert indicates that a <u>mobile unit¹ or person</u> is in distress and requires immediate assistance. The distress alert is a digital selective call using
		a distress call format ² in bands used for terrestrial radiocommunication or is a distress message format relayed through space stations.
DL/30		N 3172.1 Mobile Unit: A ship, aircraft or other vehicle.
DL/30		N 3172.2 The format of distress calls and distress messages shall be in accordance with the relevant CCIR Recommendations.
DL/30	ADD	N 3173 The distress alert shall contain ¹ the identification of the <u>station</u> in distress and provide for its position.
DL/30	ADD	N 3173.1 The distress alert may also contain information regarding the nature of the distress, the type of assistance required, the course and speed of the ship mobile unit, the time that this information was recorded and any other information which might facilitate rescue.
	[ADD	N 3173B]
DT/1B	ADD	B. Transmission of a Distress Alert
DT/1B	ADD	Bl. Transmission of a Distress Alert by a Ship Station <u>or a Ship Earth Station</u>
DT/1B	ADD	N 3174 Ship-to-shore distress alerts <u>are</u> used to alert coast stations and rescue coordination centres <u>through coast stations or</u> <u>coast earth stations</u> that a ship is in distress. These alerts are based on the use of transmissions through satellites (from a ship earth station or a satellite EPIRB) <u>and terrestrial services (ship</u> <u>stations and EPIRBs</u>).

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DT/1B ADD N 3175 Ship-to-ship distress alerts are used to alert other ships in the vicinity of the ship in distress and are based on the use of digital selective calling in the VHF and MF bands. Additionally, the HF band may be used. DT/1B B2. Transmission of a Shore-to-Ship Distress Alert Relay ADD CEPT-8/15/206 ADD N 3176 A station or a K rescue coordination centre which receives a distress alert through a coast station or a coast earth station shall initiate the transmission of a shore-to-ship distress alert relay addressed, as appropriate, to all ships, to a selected group of ships or to a specific ship by satellite and/or terrestrial means. CEPT-8/15/207 ADD N 3176A The distress alert relay shall contain the identification of the ship, aircraft or other vehicle mobile unit in distress, its position and all other information which might facilitate a rescue. DT/1B ADD B3. Transmission of a Distress Alert by a Station Not Itself in Distress (NEW) N 3177 A station in the mobile or mobile-satellite services which learns that another station in the mobile or mobilesatellite services is in distress shall initiate and transmit a distress alert in any of the following cases: DT/1B ADD N 3178 a) when the station in distress is not itself in a position to transmit the distress alert; ADD N 3179 when the master or person responsible for the ship b) aircraft or other vehicle mobile unit not in distress, or the person responsible for the land station, considers that further help is necessary. DT/1B ADD N 3180 A station transmitting a distress alert relay in accordance with Nos. N 3177, N 3178, N 3179 and N 3188 shall indicate that it is not itself in distress.

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D	T/1B	ADD		C	. Recei	pt and	Ack	nowledgement of Distress Alerts
D	T/1B	ADD			C1.			for the Acknowledgement of of Distress Alerts
D	T/1B	ADD	N	3181		stress	ale	ledgement by digital selective calling of receipt rt <u>in the terrestrial services</u> shall be in elevant CCIR Recommendations.
C C	EPT-8/	•		3182	(see No	s alert . N 318	fr 4).	ledgement through a satellite of receipt of a om a ship earth station shall be sent immediately The ship earth station operator shall keep the as practicable to receive an acknowledgement.
D	T/1B	ADD	N	3183		s alert	fr	knowledgement by radiotelephony of receipt of a om <u>a ship station or</u> a ship earth station shall ollowing form:
							-	the distress signal MAYDAY;
							-	the call sign or other identification of the station sending the distress message, spoken three times;
							-	the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
							-	the call sign or other identification of the station acknowledging receipt, spoken three times;
							-	the word RECEIVED (or RRR spoken as ROMEO ROMEO ROMEO in case of language difficulties);
	•						-	the distress signal MAYDAY.
Ċ.	AN/25/	152 ADD	N	3183A		of a d	ist	knowledgement by direct-printing telegraphy of cess alert from <u>a ship station or</u> a ship earth given in the following form:
							-	the distress signal SOS;
							-	the call sign or other identification of the station sending the distress alert;
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			 the signal DE; the call sign or other identification of the station acknowledging receipt of the distress alert;
			- the signal RRR;
L			- the distress signal SOS.
DT/1B	ADD	C2.	Receipt and Acknowledgement by a Coast Station
DT/1B	ADD	N 3184	Coast stations and appropriate coast earth stations in receipt of distress alerts shall ensure that they are routed <u>as</u> <u>soon as possible</u> to a rescue coordination centre. The receipt of a distress alert is to be acknowledged <u>as soon as possible</u> by a coast station or a rescue coordination centre <u>through a coast</u> <u>station or an appropriate coast earth station</u> .
DT/1B	ADD	N 3185	The acknowledgement by a coast station of a distress call by digital selective calling shall be transmitted on the distress calling frequency on which the call was received and should be addressed to all ships. The acknowledgement shall include the identification of the ship whose distress call is being acknowledged.
DT/1B	ADD	C3.	Receipt and Acknowledgement by a Ship Station
DT/1B	ADD	N 3186	In areas where reliable communications with one or more coast stations are practicable, ship stations in receipt of a distress alert should defer acknowledgement for a short interval so that receipt may be acknowledged by a coast station.
J/60/29	ADD	N 3186A	Ship or ship earth stations in receipt of a distress alert shall inform the master or person responsible for the ship of the contents of the distress alerts.

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	(NEW)	N	3187	communication receive a di	ons istr	tions operating in areas where reliable with a coast station are not practicable, which cess alert from a ship station which is, beyond					
•			• .	appropriatel	oubt, in their vicinity, shall, as soon as possible and if ppropriately equipped, acknowledge receipt and inform a rescue oordination centre through a coast station or coast earth tation.						
DT/1B			· · ·								
	ADD	N	3189			nip station acknowledging receipt of a distress dance with No. N 3186 or No. N 3187 should:					
DT/1B											
51,12	ADD	N	3189A	a	a)	in the first instance acknowledge receipt of the alert by using radiotelephony on the distress and safety traffic frequency in the band used for the alert;					
DT/1B											
	ADD	N	3189B	Ь))	if acknowledgement by radiotelephony of the distress alert received on the MF or VHF distress alerting frequency is unsuccessful, acknowledge receipt of the distress alert by responding with a digital selective call on that frequency.					
DT/1B											
	ADD	N	3188	will not ack <u>N 3189E and</u>	cnow N 3	over, a ship station, receiving an HF distress alert bledge it <u>and observe the provisions N 3189D,</u> b <u>189F</u> and shall, if the alert is not acknowledged by within 5 minutes, relay the distress alert.					
DT/1B											
·	ADD	N	3189C	alert (see N	lo.	nip station in receipt of a shore-to-ship distress N 3176) should establish communication as directed					

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CEPT-8/			3189D	D. Preparation for Distress Traffic			
CEPT-8/			3189E	On receipt of a distress alert transmitted by use of digital selective calling techniques, ship stations and coast stations shall set watch on the radiotelephone distress and safety traffic frequency associated with the distress and safety calling frequency on which the distress alert was received.			
	(NEW)	N	3189F	Coast stations, and ship stations with narrow-band direct printing equipment, shall set watch on the narrow-band direct-printing frequency associated with the distress alert signal if it indicates that narrow-band direct-printing is to be used for subsequent distress communications. If practicable, they should additionally set watch on the radiotelephone frequency associated with the distress alert frequency.			
DT/1B	ADD			Section III. Distress Traffic			
CEPT-8/			3189G	A. General and Search and Rescue Coordinating Communications			
DT/1B	ADD	N	3190	Distress traffic consists of all messages relating to the immediate assistance required by the ship station in distress including search and rescue communications <u>and</u> on-scene communications. The distress traffic shall as far as possible be on the frequencies contained in Article N 38.			
DT/1B	ADD	N	3190A	The distress signal consists of the word MAYDAY, pronounced in radiotelephony as the French expression "m'aider".			
CEPT-8/15/237							
			3191	For distress by radiotelephony, when establishing communications, calls shall be prefixed by the distress signal MAYDAY.			
DT/1B	ADD	N	3192	Error correction techniques in accordance with relevant CCIR Recommendations shall be used for distress traffic by direct- printing telegraphy. All messages shall be preceded by at least one carriage return, a line feed signal, a letter shift signal and the distress signal MAYDAY.			
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CAN/25/170 ADD 3192A The establishment of distress traffic by directprinting telegraphy should normally be initiated by the ship in distress and should be in the broadcast (forward error correction) mode. The ARQ mode may subsequently be used when it is advantageous to do so. CEPT-8/15/239 ADD N 3193 The rescue coordination centre responsible for controlling a search and rescue operation shall also control coordinate the distress traffic relating to that incident or may appoint another station to do so. DT/1BADD N 3194 The rescue coordination centre in control of coordinating distress traffic, the on-scene commander station controlling the traffic or the coast station involved may impose silence on stations which interfere with that traffic. It shall address this instruction to all stations or to one station only, according to circumstances. In either case, it the following shall be used: a) in radiotelephony, the signal SEELONCE MAYDAY, pronounced as the French expression "silence, m'aider"; b) in narrow-band direct-printing telegraphy normally using forward-error correcting mode, the signal SILENCE MAYDAY. However, the ARQ mode may be used when it is advantageous to do so. DT/1B ADD N 3195 Until they receive the message indicating that normal working may be resumed (see No. N 3195B), all stations which are aware of the distress traffic, and which are not taking part in it, and which are not in distress are forbidden to transmit on the frequencies in which the distress traffic is taking place. DT/1B ADD N 3195A A station of the mobile service which, while following distress traffic, is able to continue its normal service, may do so when the distress traffic is well established and on condition that it observes the provisions of No. N 3195 and that it does not interfere with distress traffic.

DT/1B

ADD N 3195B

When distress traffic has ceased on frequencies which have been used for distress traffic, the rescue coordination centre controlling a search and rescue operation shall transmit_ <u>initiate a message for transmission</u> on these frequencies a message indicating that distress traffic has finished.

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DT/1B ADD N 3195C In radiotelephony the message referred to in No. N 3195B consists of: the distress signal MAYDAY; the call "Hello all stations" or CQ (spoken as CHARLIE QUEBEC) spoken three times; the words THIS IS (or DE spoken as DELTA ECHO in the case of language difficulties); the call sign or other identification of the station sending the message; the time of handing in of the message; the name and call sign of the mobile station which was in distress; the words SEELONCE FEENEE pronounced as the French words "silence fini". DT/1B ADD N 3195CA In direct printing telegraphy the message referred to in No. N 3195B consists of: the distress signal MAYDAY; the call CQ; the signal DE; the call sign or other identification of the station sending the message;

- the time of handing in of the message;
- the name and call sign of the mobile station which was in distress; and

- the words SILENCE FINI.

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DT/1B	ADD			C. On-scene communications			
DT/1B	ADD	N	3195G	On-scene communications are those between the ship the <u>mobile</u> <u>unit</u> in distress and assisting ships and <u>aircraft</u> <u>mobile</u> <u>units</u> and between searching ships and <u>aircraft</u> <u>mobile</u> <u>units</u> and the [on-scene commander] participating in the rescue operations.			
AUS/40/292							
	ADD	N	3195H	[Control of on-scene communications is the responsibility of the on-scene commander]. Simplex communications <u>shall</u> be used so that all on-scene mobile stations may share relevant information concerning the distress incident. If direct- printing telegraphy is used, it <u>shall</u> be in the forward error- correcting mode.			
E/43/23	9						
E/43/240	0	N	31951	The preferred frequencies in radiotelephony for on- scene communications are 156.8 MHz and 2 182 kHz. The frequency 2 174.5 kHz may also be used for ship-to-ship on-scene communications using narrow-band direct-printing telegraphy in the forward error correcting mode.			
CEPT-8/1	15/25	2					
	-		3195J	In addition to 156.8 MHz and 2 182 kHz the frequencies 3 023 kHz, <u>4 125 kHz</u> , 5 680 kHz <u>,</u> 123.1 MHz <u>and 156.4 MHz</u> may be used for ship-to-aircraft on-scene communications.			
CAN (25 /1	107						
CAN/25/1		N	3195К	The selection or designation of on-scene frequencies is the responsibility of the [on-scene commander]. Normally, once an on-scene frequency is established, a continuous aural or teleprinter watch is maintained by all participating on-scene mobile units on the selected frequency.			
DT/1B							
	ADD			D. Signals for Locating			
DT/1B	ADD	N	3195L	Locating signals are <u>radio</u> transmissions intended to			
	עעה	14		facilitate, by means of the propagation properties of radio waves, the finding of a mobile unit ship, aircraft or vehicle in distress or the location of survivors. These signals include those transmitted from searching units and homing signals (see No. 3195LA) transmitted by the mobile unit in distress, or by a survival craft or by float-free EPIRBs, satellite EPIRBs and search and rescue radar transponders to assist the searching units.			

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DT/1B ADD N 3195LA Homing signals are those locating signals which are transmitted by a ship, aircraft or vehicle in distress, or by a survival craft, for the purpose of providing search units with a signal that can be used to determine the bearing to the transmitting stations. DT/1B ADD N 3195M Locating signals may be transmitted in the following frequency bands: 117.975 - 136 MHz; a) 156 - 174 MHz; b) c) 406 - 406.1 MHz; and 9 200 - 9 500 MHz. d) DT/1B

ADD N 3195N Transmit and receive Signals for locating shall complybe in accordance with the relevant <u>CCIR</u> Recommendations of the



Document DT/47-E 28 September 1987 Original: English

COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

In order to assist Committee 4, attached is a consolidated document concerning proposals on new Recommendations.

> O. VILLANYI Chairman of Committee 4

Annex: 1

CEPT-3/10/11

ANNEX

RECOMMENDATION [A]

Relating to the Possible Reduction of the Band 4 200 - 4 400 MHz allocated to the Aeronautical Radionavigation Service

considering

a) that there is a demand for additional frequency allocations for the mobile service, particularly the land mobile service;

b) that all systems utilizing the radio-frequency spectrum should be efficient in their use of this scarce resource;

c) that the allocation to the aeronautical radionavigation service of the band 4 200 - 4 400 MHz appeared in the Radio Regulations (Atlantic City, 1947) and has not been changed despite technological advances;

d) that it may be possible to operate radio altimeters in this band with sufficient accuracy with a necessary bandwidth less than 200 MHz;

e) that the frequency tolerance of such devices might be improved;

recommends

1. that the next competent world administrative conference considers, if appropriate, a reduction of the band 4 200 - 4 400 MHz allocated to the aeronautical radionavigation service;

2. that any reduction should be based on a detailed technical evaluation of the systems in question;

3. that the conference mentioned in recommends 1 above consider reallocating to the land mobile service any portion of the band currently available for the aeronautical radionavigation service which is identified as a result of technical considerations;

invites the CCIR

to study the necessary bandwidth and frequency tolerance requirements for systems operating in the aeronautical radionavigation service in the frequency band 4 200 - 4 400 MHz.

requests the Secretary-General

to refer this Recommendation to ICAO inviting their consideration of the possibility of reducing the band 4 200 - 4 400 MHz for the aeronautical radionavigation service and to make appropriate Recommendations to assist administrations in this matter.

CEPT-4/11/11

RECOMMENDATION B

Relating to the Extension of the Frequency Bands Allocated to the Mobile-Satellite and Mobile Services

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that the demand for frequency allocations for the various mobile-satellite services has increased immensely during the last few years;

b) that the allocations for the mobile-satellite services at 1.5 GHz are the only allocations generally available for those services below 10 GHz and may not meet the requirements by the year 2000;

c) that this Conference has made provisions for additional services and operations in the existing mobile-satellite bands;

d) that from a system development point of view it would be preferable for any additional spectrum for the mobile-satellite services to be adjacent to the present allocations at 1.5 - 1.6 GHz;

e) that the demand for additional frequency allocations for the mobile services is expected to increase considerably within the foreseeable future;

f) that the most suitable frequencies for the operation of mobile and mobilesatellite services are below about 3 GHz;

g) that sufficient time must be made available to develop new systems and, where necessary, to reallocate existing services;

h) that this Conference was not empowered to make such changes to Article 8 of the Radio Regulations that could have effects on other services other than minimal;

recommends

that the Plenipotentiary Conference, 1989 should take appropriate steps for the convening of a world administrative radio conference, not later than 1992, to revise certain parts of the frequency allocation table in Article 8 of the Radio Regulations in the range 1 - 3 GHz with a view to providing the necessary spectrum for the mobile-satellite services (taking into account "considering d)" above) as well as for the mobile services;

further recommends

that this Recommendation is brought to the attention of the Administrative Council.

CEPT-16/23/1* ADD

RECOMMENDATION C

Relating to Improved Efficiency in the Use of the Frequency Spectrum in the VHF Maritime Mobile Band

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that owing to the volume of traffic, the international channels listed in Appendix 18 of the Radio Regulations are saturated and the situation will not improve unless a satisfactory solution can be found;

b) that this situation is harmful to the safe movement and operation of vessels and to port operations, is affecting public correspondence communications and it is thus of concern to the International Association of Lighthouse Authorities and the International Maritime Organization as well as to administrations;

noting

that it may be possible, with the development of existing technology (the use of single-sideband emissions, the use of interleaved channels, the reduction of frequency spacing between channels, etc.), to make more efficient use of the frequency spectrum in the VHF maritime mobile band;

requests the CCIR

to undertake studies to determine the most appropriate way of promoting a more efficient use of the frequency spectrum in the VHF maritime mobile band;

invites administrations

to actively participate in these studies;

recommends

that a future competent conference should review and revise the provisions of Appendix 18 of the Radio Regulations taking account of the results of these studies;

requests the Secretary-General

to communicate this Recommendation to the International Association of Lighthouse Authorities and to the International Maritime Organization.

<u>Reasons</u>: There is a need to find a solution to the problem of saturation of the international VHF maritime mobile channels; the CCIR is being invited to study this question.

USA/24/817 ADD

RECOMMENDATION No. B1

Improved Efficiency for Appendix 18 Maritime Mobile Communications

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that continued growth in the use of VHF maritime mobile bands, in particular the Appendix 18 bands, is inevitable;

b) that in many parts of the world significant congestion already exists in the Appendix 18 channels, and this congestion will continue to become worse;

c) that new uses of the band which could significantly benefit mariners, such as the VHF radio lighthouse system described by the CCIR and the International Association of Lighthouse Authorities (IALA) for the transmission of data, cannot be implemented by many administrations because of band congestion;

d) that the potential exists for solving these problems by improved spectral efficiency of communications using low cost new technology narrow band techniques, such as narrow band FM and companded sideband;

<u>noting</u>

a) that thousands of mariners using low cost transceivers rely on this band and the safety services which it provides;

b) that any modifications to the Appendix 18 system should have minimal impact to existing users of this band;

c) that any new system must also be fully compatible with existing Appendix 18 distress and safety channels, navigation safety channels and GMDSS channels;

d) that there exists in many administrations non-maritime users of this band who also must be protected;

requests the CCIR.

to urgently study means for improving the spectral efficiency of the Appendix 18 bands, and to develop Recommendations covering the technical and operational characteristics of systems using these bands;

invites administrations

to participate actively in these studies;

invites the Administrative Council

to make the necessary arrangements for the next competent world administrative radio conference to consider changes to Appendix 18 to alleviate congestion in these bands, taking into account relevant CCIR Recommendations.

> <u>Reason</u>: To provide a means for relieving congestion and improving spectrum efficiency in the Appendix 18 VHF maritime mobile bands.

USA/24/818 ADD

RECOMMENDATION No. B2

Relating to the Use of the Frequency Band 1610.6-1613.8 MHz by the Radiodetermination-Satellite and Radio Astronomy Services

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the advancement of modern communications technology has fostered the introduction of numerous new services, resulting in complex spectrum usage and, consequently, the necessity of developing creative techniques for sharing portions of the electromagnetic spectrum;

b) that this Conference has modified the Table of Frequency Allocations to include an allocation to the radiodeterminationsatellite service (Earth-to-space) on a primary basis in the band 1610-1626.5 MHz;

c) that several administrations are actively engaged in the development of radiodetermination-satellite systems;

d) that recognition has been given to the radio astronomy service in the band 1610.6-1613.8 MHz within the Table of Frequency Allocations and in No. 734;

e) that the observations of radiations from hydroxyl molecules within the band 1610.6-1613.8 MHz are of prime importance in understanding the physical character of stars and interstellar clouds in our galaxy and in other galaxies;

f) that one administration has adopted the following procedure to protect radio astronomy operations:

> transmissions in the radiodeterminationsatellite service in the band 1610-1626.5 MHz are restricted to occur only within the first 200 milliseconds following the one second time marks of Coordinated Universal Time when an airborne transmitter is within 150 kilometers or a land transmitter is within 25 kilometers from a radio astronomy station during a period of radio astronomy observations in the band 1610.6-1613.8 MHz;

- 8 -MOB-87/DT/47-Е

g) that adoption of a similar procedure by other administrations would provide the means whereby the band 1610.6-1613.8 MHz could continue to be used for international scientific collaboration among radio astronomy observatories;

recommends that administrations

when implementing the radiodetermination-satellite service in the band 1610-1626.5 MHz, should adopt appropriate procedures with radio astronomy stations which are registered in the band 1610.6-1613.8 MHz in accordance with Nos. 1492 and 2896 of the Radio Regulations.

> <u>Reason</u>: The proposed allocation for the radiodetermination-satellite service in the band 1610-1626.5 MHz could have an impact on the current radio astronomy allocation in the band 1610.6-1613.8 MHz. These procedures will minimize the impact.

G/33/60 ADD RECOMMENDATION [A]

Relating to the possible reduction of the band 4200-4400 MHz allocated to the aeronautical radionavigation service.

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a. that there is a demand for additional frequency allocations for the mobile service, particularly the land mobile service;

b. that all systems utilising the radio frequency spectrum should be efficient in their use of this scarce resource;

c. that the allocation to the aeronautical radionavigation service 4200-4400 MHz appeared in the Radio Regulations (Atlantic City, 1947) and has not been changed despite technological advances;

d. that it may be possible to operate radio altimeters in this band with sufficient accuracy with a necessary bandwidth less than 200 MHz.

e. that the frequency tolerance of such devices might be improved;

<u>recommends</u>

1. that the next competent world administrative conference considers, if appropriate, a reduction of the band 4200-4400 MHz allocated to the aeronautical radionavigation service;

2. that any reduction should be based on a detailed technical evaluation of the systems in question;

3. that the conference mentioned in recommends 1 above consider reallocating to the land mobile service any portion of the band currently available for the aeronautical radionavigation service which is identified as a result of technical considerations

invites the CCIR

to study the necessary bandwidth and frequency tolerance requirements for systems operating in the aeronautical radionavigation service in the frequency band 4200-4400 MHz.

requests the Secretary General;

to refer this Recommendation to ICAO inviting their consideration of the possibility of reducing the band 4200-4400 MHz for the aeronautical radionavigation service and to make appropriate recommendations to assist administrations in this matter.

PROPOSED RECOMMENDATION ...

Relating to the Convening of a WARC

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that a requirement exists for the allocation of frequencies to the land mobile-satellite service;

b) that the current allocations to the mobile-satellite services are not sufficient to cope with the requirements of the land mobile-satellite service;

c) that the present Conference is only empowered to amend Article 8 of the Radio Regulations insofar as the effect on other services is minimal;

d) that the use of non-geostationary satellites to cover geographical areas above latitude 30° and of geostationary satellites for those located below 30° should enable mobile stations to be equipped with sufficiently directional zenithal antennas to share the frequency spectrum with the existing services;

e) that in view of the growing demand for frequency bands for satellite communications with mobile stations, there is an urgent need to revise the allocations in a portion of the frequency spectrum;

recommends

1. that the 1989 Plenipotentiary Conference should make appropriate arrangements to convene, by 1992 at the latest, a world administrative radio conference to revise certain parts of the Table of Frequency Allocations in Article 8 of the Radio Regulations in order to meet the needs of the mobile-satellite services (in the light of preambular paragraphs d) and e) above);

2. that the administrations should be urged to undertake or pursue experiments on the land mobile-satellite service in the frequency bands referred to in the Report of the Special Meeting (sections 6.2.12.2 and 6.2.12.3);

3. that the CCIR should expedite studies on the technical characteristics of regional or national land mobile-satellite systems and on the criteria for compatibility with the existing services in the bands concerned;

further recommends

that this Recommendation be brought to the attention of the Administrative Council.

ADD

RECOMMENDATION [A]

Relating to the Use and Designation of Interleaved Channels in Appendix 18

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987.

considering

a) that in view of the congestion in the Appendix 18 channels, a study needs to be conducted with a view to improving use of the spectrum within the frequency bands occupied by those channels;

b) that Recommendation C (Document 23) requests the CCIR to undertake such studies,

recognizing

a) that one of the possibilities to be covered in the CCIR's studies is the use of "interleaved" channels separated by 12.5 kHz from the normal Appendix 18 channels;

b) that the countries intending to participate in the CCIR studies may wish to use those interleaved channels for trials on condition that operations on the channels in accordance with the Table in Appendix 18 are not adversely affected,

recommends

that for relations between administrations, between the administrations and the CCIR or the IFRB, and between coast stations and ship stations, an interleaved channel be considered as a channel separated by + 12.5 kHz from a normal channel in the Table in Appendix 18;

that such channels be designated by the letter "i" (interleaved) placed to the right of the normal channel number (e.g. channel 66i is the channel comprising the two frequencies 156.3375 MHz (ship)/160.9375 MHz (coast)).

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HOL/53/2 ADD

RECOMMENDATION (HOL A)

Relating to the Use of the Frequency Bands 1 850 - 2 045 kHz, 2 194 - 2 498 kHz, 2 502 - 2 850 kHz, 3 155 - 3 400 kHz and 3 500 - 3 800 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

- a) that the World Administrative Radio Conference for the Mobile Services, Geneva 1983, adopted a resolution relating to the Holding of a Regional Administrative Radio Conference to Prepare Frequency Assignment Plans for the Maritime Mobile Service in the Bands between 435 kHz and 526.5 kHz and in Parts of the Band between 1606.5 kHz and 3400 kHz in Region 1 and to Plan for the Aeronautical Radionavigation Service in the Band 415 -435 kHz in Region 1;
- b) that this Resolution contained in Appendix 3 the Table of Recommended Assignable Frequencies to be used by administrations when planning and assigning frequencies in the bands 1850-2045 kHz, 2194-2498 kHz, 2502-2850 kHz, 3155-3400 kHz and 3500-3800 kHz to stations of the maritime mobile service;
- c) that the Regional Administrative Radio Conference for Region 1 prepared frequency assignment plans for the maritime mobile service in the frequency bands between 435 and 526.5 kHz and in parts of the band between 1606.5 kHz and 2850 kHz and for the Aeronautical Radionavigation Service in the band 415-435 kHz;
- d) that there is no need for preparing frequency assignment plans in the bands 1850-2045 kHz, 2194-2498 kHz, 2502-2850 kHz, 3155-3400 kHz and 3500-3800 kHz;

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HOL/53/2 (contd.)

resolves

to retain the Table of Recommended Assignable Frequencies as it appeared in Appendix 3 of Resolution No. 704.

recommends

that the Table of Recommended Assignable Frequencies appearing in the Appendix to this Resolution be used by Administrations in Region 1 when planning and assigning frequencies in the bands 1850-2045 kHz, 2194-2498 kHz, 2502-2850 kHz, 3155-3400 kHz and 3500-3800 kHz to stations of the maritime mobile service. - 14 -MOB-87/DT/47-E

HOL/53/2 (contd.)

b)

APPENDIX TO RECOMMENDATION [HOL A]

Tables of Recommended Assignable Frequencies to be Used by Administrations in Region 1 when Planning and Assigning Frequencies in the Bands 1 850 - 2 045 kHz, 2 194 - 2 498 kHz, 2 502 - 2 850 kHz, 3 155 - 3 400 kHz and 3 500 - 3 800 kHz

a) Coast stations, single-sideband radiotelephony
 1 852.4 kHz (1 851 kHz) ... 33 channels spaced 3 kHz ...
 1 948.4 kHz (1 947 kHz).

Ship stations. single-sideband radiotelephony 1 952.4 kHz (1 951 kHz) ... 31 channels spaced 3 kHz ... 2 042.4 kHz (2 041 kHz).

c) Ship stations, single-sideband radiotelephony
2 196.4 kHz (2 195 kHz) ... 22 channels spaced 3 kHz ... 2 259.4 kHz (2 258 kHz).

d) Intership, single-sideband radiotelephony
2 264.4 kHz (2 263 kHz) ... 78 channels spaced 3 kHz ... 2 495.4 kHz (2 494 kHz).

e) Ship stations, narrow-band direct-printing telegraphy

2 502.5 kHz ... 150 channels spaced 0.5 kHz ... 2 577.5 kHz.

f) Coast stations, narrow-band direct-printing telegraphy and singlesideband radiotelephony

2 580.4 kHz (2 579 kHz) ... 90 channels spaced 3 kHz ... 2 847.4 kHz (2 846 kHz).

or

2 578.5 kHz ... 543 channels spaced 0.5 kHz ... 2 849.5 kHz.

(Rev. 1985)

S/75/8

RECOMMENDATION B

Relating to the Extension of the Frequency Bands Allocated to the Mobile-Satellite and Mobile Services

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

ADD

a) that the demand for frequency allocations for the various mobile-satellite services has increased immensely during the last few years;

b) that the allocations for the mobile-satellite services at 1.5 GHz are the only allocations generally available for those services below 10 GHz and may not meet the requirements by the year 2000;

c) that this Conference has made provisions for additional services and operations in the existing mobile-satellite bands;

d) that from a system development point of view it would be preferable for any additional spectrum for the mobile-satellite services to be adjacent to the present allocations at 1.5 - 1.6 GHz;

e) that the demand for additional frequency allocations for the mobile services is expected to increase considerably within the foreseeable future;

f) that the most suitable frequencies for the operation of mobile and mobilesatellite services are below about 3 GHz;

g) that sufficient time must be made available to develop new systems and, where necessary, to reallocate existing services;

h) that this Conference was not empowered to make such changes to Article 8 of the Radio Regulations that could have effects on other services other than minimal;

recommends

that the Plenipotentiary Conference, 1989 should take appropriate steps for the convening of a world administrative radio conference, not later than 1992, to revise certain parts of the frequency allocation table in Article 8 of the Radio Regulations in the range 1 - 3 GHz with a view to providing the necessary spectrum for the mobile-satellite services (taking into account "considering d)" above) as well as for the mobile services;

further recommends

that this Recommendation is brought to the attention of the Administrative Council.

1/97/4 ADD

DRAFT RECOMMENDATION

Relating to the possible reduction of the band 4200-4400 MHz allocated to the aeronautical radionavigation service.

The World Administrative Radio Conference, Geneve 1987

considering

- a) that there is a demand for additional frequency allocations for the mobile service, particularly the land mobile service;
- b) tha tall systems utilizing the radio frequency spectrum should be efficient in their use of this scarce resource;
- c) that the allocation to the aeronautical radionavigation service 4200-4400 MHz appeared in the Radio Regulations (Atlantic City,1947) and has not changed despite technological advances;
- d) that it may be possible to operate radio altimeters in this band with sufficient accuracy with a necessary bandwidth less than 200 MHz;
- e) that the frequency tolerance of such device migth be improved;

recommends

- 1) that the next competent World Administrative Conference considers, if appropriate, a reduction of the band 4200-4400 MHz allocated to the aeronautical radionavigation service;
- that any reduction should be based on a detailed technical evaluation of the system in question;
- 3) that the Conference mentioned in recommends 1) above consider reallocating to the land mobile service any portion of the band currently available for the aeronautical radionavigation service which is identified as a result of technical considerations;

invites the CCIR

to study the necessary bandwidth and frequency tolerance requirements for systems operating in the aeronautical radionavigation service in the frequency band 4200-4400 MHz;

request the Secretary General

to refer this Recommendation to ICAO inviting their consideration of the possibility of reducing the band 4200-44090 MHz for the aeronautical radionavigation service and to make appropriate recommendations to assist Administrations in this matter.

DRAFT RECOMMENDATION

Relating the Compatibility between the Aeronautical Mobile (R) Service in the band 117.975 - 137 MHz and the Sound Broadcasting Stations in the Band 87.5 - 108 MHz.

The World Administrative Radio Conference for Mobile Services ,Geneva 1937

<u>considering</u>

- a) that VHF air/ground communications ensure vital role in the operations and safety of aircraft, which could be prejudiced by interference
- b) that compatibility problems have arisen in varius parts of the world between the aeronautical mobile (R) service in the band 117.975 -137 MHz and the FM sound broadcasting stations in the band 87.5 -108 MHz
- c) that the Regional Administrative Conference for planning on VHF Sound Broadcasting (Region 1 and part of Region 3) (Geneve 1984) did not consider the aspects of compatibility between these two services in preparation of the Sound Broadcasting Plan;
- d) that the CCIR and the ICAO have studies the problem and the CCIR has racommended techical criteria which can be used by administrations for coordination between the two services concerned;
- e) that the ICAO has agreed standards, to came into effect on 1 January 1998, relating to the immunity characteristics of future aeronautical VHF receivers and incorporating the basic requirements for intermodulation and desensitization;

invites the CCIR

to continue to study compatibility between these two services from the standpoint of possible interference to aeronautical mobile service;

invites the ICAO

to continue to study these problems and communicate the results of its studies to the CCIR;

recommends administrations

- a) to participate actively in these studies and provide CCIR with expert guidance on this matter;
- b) to take all possible steps to give the required protection to the aeronautical mobile (R) service taking into account the information contained in consistent CCIR reports.

ADD

RECOMMENDATION B

Relating to the Extension of the Frequency Bands Allocated to the Mobile-Satellite and Mobile Services

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987.

considering

a) that the demand for frequency allocations for the various mobile-satellite services has increased immensely during the last few years;

b) that the allocations for the mobile-satellite services at 1.5 GHz are the only allocations generally available for those services below 10 GHz and may not meet the requirements by the year 2000;

c) that this Conference has made provisions for additional services and operations in the existing mobile-satellite bands;

d) that from a system development point of view it would be preferable for any additional spectrum for the mobile-satellite services to be adjacent to the present allocations at 1.5 - 1.6 GHz;

e) that the demand for additional frequency allocations for the mobile services is expected to increase considerably within the foreseeable future;

f) that the most suitable frequencies for the operation of mobile and mobilesatellite services are below about 3 GHz;

g) that sufficient time must be made available to develop new systems and, where necessary, to reallocate existing services;

h) that this Conference was not empowered to make such changes to Article 8 of the Radio Regulations that could have effects on other services other than minimal;

recommends

that the Plenipotentiary Conference, 1989 should take appropriate steps for the convening of a world administrative radio conference, not later than 1992, to revise certain parts of the frequency allocation table in Article 8 of the Radio Regulations in the range 1 - 3 GHz with a view to providing the necessary spectrum for the mobile-satellite services (taking into account "considering d)" above) as well as for the mobile services;

further recommends

that this Recommendation is brought to the attention of the Administrative Council.

F/104/1 ADD

DRAFT RECOMMENDATION

Relating to the Inclusion in the Radio Regulations of Some of the Provisions of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985)

The World Administrative Radio Conference for the Mobile Services (Geneva, 1987),

considering

a) that the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) adopted Recommendations Nos. 3, 4 and 5 relating to the inclusion in the Radio Regulations of the provisions governing the use of the frequency bands by the services concerned;

b) that item 6 of the agenda of WARC MOB-87 deals with the examination of the above-mentioned Recommendations, providing for the possibility of taking the appropriate decisions and, in particular, the inclusion of certain Conference decisions in the Radio Regulations relating to the Allotment Plan;

c) that, in parallel to this question, the band 1 605 - 1 705 kHz was planned by the Regional Administrative Broadcasting Conference for Region 2 (BC R2) in 1986 and that the question of the amendment of Note 480 of the Radio Regulations was included in the agenda of the Second Session of the WARC on the Use of the Geostationary-Satellite Orbit and the Planning of the Space Services Utilizing It (WARC ORB 1988);

recognizing

1. that the regional Plans and associated Agreements are not as a general rule embodied in the Radio Regulations;

2. that the inclusion of the Final Acts of the RABC R2 (Geneva, 1983) in the Radio Regulations at the First Session of WARC-ORB constitutes a particular case which is justified by the fact that the Plan for Regions 1 and 3 has already been embodied in the Radio Regulations by the WARC for Satellite Broadcasting (Geneva, 1977); 3. that, before any inclusion either of the Plans of the MF maritime mobile service for Region 1 or the Plans of the MF broadcasting service for Region 2, the absence of any problem of compatibility between regions should be established;

4. that the fact of deciding on the inclusion of regional decisions in the Radio Regulations in order to render these decisions applicable to all the members of a particular region, irrespective of the accession of these members to an agreement, raises a question of principle which affects all administrations of the Union;

recommends

that the question of the inclusion of regional conference decisions should appear in the agenda of the Plenipotentiary Conference in order to provide an overall reply to this question;

entrusts to the CCIR

the task of studying the question of interregional sharing.

6

ADD

Draft Recommendation AUS-1

.

Relating to Future Public Mobile Telecommunication Systems

The World Administrative Radio Conference for Mobile Services, Geneva, 1987.

considering

a. that public mobile telecommunication services, i.e services for public correspondence via radio stations connected to the switched public telephone network, are in operation in a number of countries and that their use is extending;

b. that there is a very large potential demand for future public land mobile telecommunication services;

c. the rapidly increasing demand for spectrum by the land mobile services in the VHF and UHF bands;

d. the need to encourage adoption of systems which improve spectrum utilization efficiency and hence system capacity per MHz per unit area;

e. that future public land mobile telecommunication systems have the potential for high spectrum efficiency;

f. that maximum commonality of systems is desirable to ensure that overall system cost per mobile user is reduced;

g. that system compatibility is necessary for international operation, particularly with the increasing use of personal (hand-held, portable) terminals;

h. the benefits to all countries from the international standardization of frequency bands for similar services;

noting

a. Recommendation 310 of the World Administrative Radio Conference, Geneva, 1979, relating to an automated UHF maritime mobile system;

b. CCIR Report 742-2 on public land mobile telephone systems in response to Question 39/8;

c. CCIR Decision 69 directing Interim Working Party 8/13 to examine the overall objectives and frequency band or bands which would be suitable for future land mobile telecommunication systems as part of Study Programme 39A/8;

recommends

that the next competent world administrative radio conference:

designate a suitable band or bands for use by future public land mobile telecommunication systems from those bands allocated on a worldwide basis to the mobile service;

invites the CCIR in consultation with the CCITT

to continue to study, as a matter of urgency, the bands which are preferred from operational and sharing aspects for use by future public land mobile telecommunication systems, and to issue a revised Report or Recommendation before the next competent world administrative radio conference;

invites the Administrative Council

to take the necessary action to place this matter on the agenda of the next competent World Administrative Radio Conference.



NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/48-E 28 September 1987 Original: English

COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

In order to assist Committee 4, attached is a consolidated document concerning proposals on new Resolutions.

> O. VILLANYI Chairman of Committee 4

Annex: 1

MOB-87/DT/48-E

ANNEX

CEPT-13/20/10

A D D RESOLUTION NO. B

Relating to the Transition from Morse Telegraphy (Calling and Working) to Narrow-Band Direct-Printing Telegraphy in the Bands Between 4000 kHz and 27500 kHz Allocated Exclusively to the Maritime Mobile Service

8

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that this Conference has carried out a general review of the sub-allocations and the channelling plans in the exclusive maritime mobile HF bands;

that the number of paired channels for narrow-band direct-printing ъ) telegraphy has been increased considerably in order to provide for an increased demand for such channels;

c) that it is expected that the demand for paired channels for narrow-band direct-printing telegraphy will continue to increase:

that this Conference has reduced the number of channels available d) for Morse telegraphy (working);

that it is expected that the demand for frequencies for Morse e) telegraphy will continue to decrease;

that it is reasonable to expect that the phased introduction of the Future Global Maritime Distress and Safety System (FGMDSS) and the. associated fitting of new and automated equipment onboard ships will lead to a further reduction in the number of frequencies required for Morse telegrachy; :

resolves

that the channels indicated in Annex A to this Resolution shall 1_ become available on a paired basis for narrow-band direct-printing telegraphy on the dates mentioned in the Annex;

2_ that those channels may continue to be used for Morse telegraphy (working) by administrations wishing to do so;

that those channels that become available for narrow-band direct-3. printing telegraphy as a result of the application of this Resolution shall be taken into use, notified to the IFRB and recorded in the Master Register in accordance with the procedure specified in Resolution No. C;

6. that the IFRB shall assist administrations in applying this Resolution:

5. that a future competent conference be invited to review this Resolution and examine any difficulties that may have arisen in its application:

- 2 -

further resolves

that a future competent conference be invited to review the need to provide frequencies for Morse telegraphy (calling and working) in the HF bands allocated to the maritime mobile service and if it decided that such frequencies are no longer needed it be invited to decide whether the remaining Morse telegraphy working frequencies (see Annex B to this Resolution) and the Morse telegraphy calling frequencies should be made available for other purposes such as narrow-band direct-printing telegraphy on a paired basis or wideband telegraphy. If that conference decided that the remaining Morse telegraphy working frequencies should be made available for narrow-band direct-printing telegraphy on a paired basis, it is recommended that the pairing arrangement shown in Annex B to this Resolution should be adopted;

invites the Administrative Council

to place this Resolution on the agenda of the next competent conferences.

<u>Reason</u>: To provide a procedure for the transition from Morse telegraphy to narrow-band direct-printing telegraphy.

CEPT-13/20/10 (continued)

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ANNEX A TO RESOLUTION NO. 8

1. From 15 June 1993 the following channels, listed in Table F of Appendix. 31A, shall be used on a paired basis for narrow-band direct-printing telegraphy:

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Band (MHz)	Channel Nos-
4	1 - 15
6	T - 16
8	t - 30
12	1 - 43
16	t - 56
22	1 - 34
25	t - 7

2. From 15 June 1997 the following channels, listed in Table F of Appendix 31A, shall be used on a paired basis for narrow-band direct-printing telegraphy:

Band (MHz)	Channel Nos.
4	16 - 30
6.	17 - 3T
8.	31 - 56
12	44 - 81
16	57 - 105
22	35 - 68
25	8 - 12

3. The pairing arrangement of the channels mentioned in paragraphs 1 and 2 above is specified in Table D of Appendix 31A.

CEPT-13/20/10 (continued)

ANNEX B TO RESOLUTION NO. B

The recommended pairing arrangement for the following channels from Table F of Appendix 31A is shown below (frequencies in kHz):

Series	4 MHZ B	land	Series	6 MHz E	land	Series	8 MHz Band	
No.	Transmit	Receive	No.	Transmit	Receive	No.	Transmit	Receive
31	4316.5	4217	32	6445	6319.5	57	8633.5	8429.5
•	+	+		+.	+		+	+
т (•	•	•	•	1	•	ı	
42	4311	4211.5	46.	6438	6312.5	83	8620.5	8416.5

Series	12 MHz	Band	Series	. 16 MHz Band		Series	22 MHz	22 MHz Band	
No.	Transmit	Receive	No.	Transmit	Receive	No-	Transmit	Receive	
82	12897	12582.5	106	17056	16776	69	22606-5	22300-5	
1	+	+		+	+		+	+	
•		1	•	•	1	- •	•	•	
119	12878.5	12564	156	17031	16751	. 97	22592-5	22286.5	

Series	25 MHz	Sand
No.	Transmit	Receive
13	26105	25196.5
1	+	+
19	25102	25193.5

+ Frequencies spaced at 0.5 kHz intervals.

CEPT-13/20/11 ADD

RESOLUTION NO. C

Relating to the Use and Notification of the Paired Frequencies: Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems in the HF Bands Allocated on an Exclusive Basis to the Maritime Mobile Service¹

*

(see Appendix 31A)

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that certain sections of the HF bands allocated to the maritime mobile service have been reserved for narrow-band direct-printing telegraph and data transmission systems for use on a paired frequency basis only;

b) that the World Maritime Administrative Radio Conference (WMARC), Geneva, 1974 only established interim measures for the orderly taking into use of the paired frequencies;

c) that this Conference has provided wider bands than those available at present for narrow-band direct-printing telegraphy;

d) that it is necessary to establish a procedure to replace the interim measures established by the WMARC, 1974, for the use and notification of paired frequencies for narrow-band direct-printing telegraphy;

resolves

1. that paired frequencies in the HF bands reserved for narrow-band direct-printing telegraphy between coast stations and ship stations shall be used by those stations, notified to the IFRB and recorded in the Master Register in the following manner:

1.1 assignments of pairs of frequencies for transmission and reception shall be made solely to coast stations. Ship stations of any nationality shall use by right for their transmissions the receiving frequencies of the coast stations with which they exchange traffic;

1.2 to achieve efficient frequency usage, each administration shall choose the pairs of frequencies for its requirements, if necessary with the assistance of the IFRB;

1.3 the assignments thus selected shall be notified to the IFRB in notices as shown in Appendix 1 to the Radio Regulations and administrations shall supply the basic characteristics listed in Section A or B of that Appendix, as appropriate;

1.4 whenever practicable each notice should reach the Board before the date on which the assignment is brought into use. It must reach the Board not earlier than one year before the date on which it is to be brought into use but in any case not later than 30 days after it is actually brought into use;

1 Replaces Resolution No. 300 of the WARC, Geneva, 1979.

1.5 if the notified assignment is in conformity with the relevant provisions of the Radio Regulations and this Resolution the Board shall record it in the Master Register. The date of taking into use of the assignment shall be entered in Column 2c;

1.6 any notice not in conformity with the relevant provisions of the Radio Regulations or with this Resolution and each notice concerning an assignment which the Board considers to be capable of causing harmful interference to an assignment already recorded, shall be returned to the notifying administration together with any suggestion which the Board is able to offer with a view to a satisfactory solution of the problem;

1.7 all assignments recorded in the Master Register not taken into use within one year — or taken out of use for one year shall be cancelled by the Board after consultation with the administration concerned and shall be available for re-assignment;

2. that a future competent conference be invited to review this Resolution and examine any difficulties which may have arisen in its application;

3. that the entries made in the Master Register under this Resolution shall in no way prejudge any decisions which may be taken by the aforementioned conference;

invites the Administrative Council

to place this Resolution on the agenda of the next competent conference.

<u>Reason</u>: To provide a procedure for the use and notification of the paired frequencies reserved for narrow-band direct-printing telegraphy to replace that contained in Resolution No. 300.

CEPT-13/20/12

ADD RESOLUTION NO. D

Relating to the Use and Notification of the Additional Paired. Frequencies Reserved for Radiotelephony in the HF Bands Allocated to the Maritime Mobile Service

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Geneva, 1987

considering

a) that there is an increasing demand for additional paired frequencies for radiotelephony in the HF bands allocated on an exclusive basis to the maritime mobile service;

b) that it has not been possible to satisfy this demand by further allocation of the paired frequencies previously reserved for radiotelephony in those bands;

c) that this Conference has modified Appendices 16 and 3T of the Radio Regulations and has placed the paired frequencies previously reserved for radiotelephony at intervals of 3.0 kHz as opposed to 3.1 kHz (see also Resolution No. E), thus providing a number of additional channels (see Annex to this Resolution); d) that this Conference has further modified Appendix 31 of the Radio. Regulations and has provided a number of additional paired frequencies for radiotelephony at intervals of 3.0 kHz in the HF bands allocated to the maritime mobile service (see Resolution No. E and the Annex to this Resolution);

noting

that the additional paired frequencies for radiotelephony provided by this Conference will not be sufficient to satisfy all demands;

resolves

1. that there should be an equitable and orderly distribution of the additional paired frequencies for radiotelephony amongst administrations in the following order of priority:

1.1 to those administrations having no coast station allotments in Appendix 25 of the Radio Regulations and which require such allotments;

1.2 to those administrations whose existing allotments in Appendix 25 of the Radio Regulations have proved to be unsatisfactory due to harmful interference;

1.3 to those administrations requiring additional frequencies to: supplement their existing allotments in order to satisfy an increase in radiotelephony traffic;

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to instruct the IFRB:

2.1 following the coming into force of the Final Acts of this Conference, to prepare a programme for the notification, assessment, taking into use and recording in the Master Register of the additional paired frequencies for radiotelephony;

2.2 to include the following in that programme:

2.2.1 all assignments shall be notified to the Board within one year before the 3D days after the date of taking them into use;

2.2.2 all assignments recorded in the Master Register not taken into use within one year — or taken out of use for one year — shall be cancelled by the Board after consultation with the administration concerned and shall be available for re-assignment;

2.2.3 all assignments recorded in the Master Register shall have a date in Column Zc of that Register to show the actual date of taking into use;

2.2.4 all radiotelephony assignments made in accordance with this Resolution shall be temporary pending a future revision of Appendix 25;

2.3 to circulate details of the programme referred to in Z_T to all administrations;

2.4 to invite administrations requiring allotments or additional allotments for radiotelephony to notify their requirements to the Board by a date to be decided by the Board;

2.5 to apply the procedure specified in the programme after the date referred to in 2.4 above;

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3. that a future competent conference be invited to review this Resolution, examine any difficulties which may have arisen in its application and decide whether the additional paired frequencies for radiotelephony should be incorporated in Appendix 25 of the Radio Regulations;

4. that the entries made in the Master Register as a result of the application of this Resolution shall in no way prejudge any decisions which may be taken by the afore-mentioned conference;

urges administrations

to cooperate to the fullest possible extent with the Board in the application of this Resolution;

invites the Administrative Council

to place this Resolution on the agenda of the next competent conference.

<u>Reason</u>: To provide a procedure for the use and notification of the additional frequencies reserved for radiotelephony in the maritime mobile HF bands.

- 11 -MOB-87/DT/48-E

CEPT-13/20/12 (continued)

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ANNEX TO RESOLUTION NOL D

ADDITIONAL RADIOTELEPHONY CHANNELS

The following is a list of the additional radiotelephony channels referred to in 'considering c)' and 'considering d)' of Resolution No. D (frequencies in kHz):

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Channel	Coast St	ations	Ship St	ations
No.	Carrier Frequency	Assigned Frequency	Carrier Frequency	Assigned Frequency
427 428 429 430	4435 4348 4351 4354	4436.4 4349.4 4352.4 4355.4	4134 4146 4149 4152	4135.4 4147.4 4150.4 4153.4
607	6486	6487.4 '	6218	6219.4
1	+	+	+	+
613.	6505	6506.4	6236	6237.4
832 833	8812 8698	8813.4 8699.4	8290	8291.4
•	1	•	+	+
1	+	+	t t	
839	8716	8717.4	8311	8312.4
1233	13035	13036.4	12263	12254.4
r 1	+	+	+	+
1255	13101	13102.4	12329	12330.4
1642	17356	17357.4	16393	16394_4
1	+ ·	+	+	+
1659	17407	17408.4	1	
1660	17218	17219.4	ł	•
T I	+	₹ +	1	
r	1	8	1	•
1664	17230	17231.4	16459	16460.4
1801	19758 '	19759.4	18780	18781.4
	+	+	+	+
1806	19773 +	19774.4-	18759+	18796_4+
•	+	+	+	+
1814	19797	19798_4	18819	18820.4

+ Frequencies spaced at 3.0 kHz intervals.

* The frequencies followed by an asterisk are calling frequencies (see Nos. 4375 and 4376).

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CEPT-13/20/12 (continued)

Channel	Coast S	Stations	Ship Stations			
No.	Carrier Frequency	Assigned Frequency	Carrier Frequency	Assigned Frequency		
2241	22825	22826.4	221 20	22121.4		
1	+	+ • •	+	+		
2250	22852	22853.4	22147	22148.4		
2501	26157	26158.4	25070	25071.4		
1	+	+	+	+		
2506	26172 *	26173.4*	25085+	25086.4*		

+ Frequencies spaced at 3.0 kHz intervals.

* The frequencies followed by an asterisk are calling frequencies (see Nos_ 4375 and 4376).

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CEPT-13/20/13

ADD

RESOLUTION NO. E

Relating to the Implementation of the Revised Channel Spacing Between Frequencies Reserved for Radiotelephony in the HF Bands Allocated on an Exclusive Basis to the Maritime Mobile Service

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that this Conference has modified Appendices 16 and 3T of the Radio Regulations and has placed the paired frequencies reserved for radiotelephony in the HF bands allocated to the maritime mobile service at intervals of 3.0 kHz as opposed to 3.1 kHz;

b) that it will be necessary to make a consequential modification to Appendix 25 of the Radio Regulations;

c) that coast and ship radictelephone stations will need to change their transmitting and receiving frequencies to bring them into conformity with the modification made to Appendix 16 (see Table 8, Section A of Appendix 31A);

d) that there should be an orderly transition to the new paired frequencies reserved for radiotelephony in the HF bands allocated to the maritime mobile service;

resolves

1. that the frequencies presently shown in Appendix 25 shall be superseded by the frequency arrangement specified in the Annex to this Resolution on 15 April 1990;

- 14 -MOB-87/DT/48-E

Z. that at 0001 Universal Time Coordinated (UTC) on 15 April 1990, coast and ship radiotelephone stations shall change their transmitting and receiving frequencies to bring them into conformity with the Annex to this Resolution;

3. that on 15 April 1990 assignments for radiotelephony, recorded in the Master Register in conformity with Appendix 25, shall be transferred in the Master Register to the replacement frequencies shown in the Annex to this Resolution; such assignments shall retain their existing dates recorded in Column 2 of the Master Register and shall contain a remark in Column 13 to indicate that they have been transferred from their existing frequencies in accordance with this Resolution;

4. to instruct the IFRB to prepare a modification to Appendix 25, based on the Annex to this Resolution, and to circulate it to all administration;

5. that the provisions of Article 16 of the Radio Regulations shall apply to the revised frequency arrangement specified in the Annex to this Resolution;

urges administrations

to cooperate to the fullest possible extent with the Board in the application of this Resolution.

Reason: To provide a procedure for the implementation of the revised channel spacing in the maritime mobile HF bands reserved for radiotelephony.

- 15 -MOB-87/DT/48-E

CEPT-13/20/13 (continued) ANNEX TO RESOLUTION NO. E

Change from 3.1 kHz Frequency Spacing to 3.0 kHz Frequency Spacing in the HF Bands Reserved for Radiotelephony in the Maritime Mobile Service.

In accordance with Resolution No. E, the frequencies shown in Column 2 below will replace those shown in Column 1 below on 15 April 1990 (see 'resolves 1' of Resolution No. E) (frequencies in kHz):

		1 1 - Prese	ent Frequ	encies	Column 2 - Replacement Frequencies				
Chan. No.	Coast S	tations	Ship S	tations	ions Coast Statio		ions Ship Stations		
	Carrier Freq- uency	Assigned Fr eq- uency	Carrier Fr eq- uency	Assigned Freq- uency	Carrier Freq- uency	Assigned Freq- uency	Carrier Freq- uency	Assigned Freq- uency	
401	4357.4	4358.8	4063	4064.4	4357	4358.4	4065	4066.4	
1	x	X	x	X	+	+	+	+	
421	4419.4*	4420-8+	4125 *	4126.4=	4417*	4418.4=	4125+ ^T	4125.4+	
1	x	X	x	×	+	+	+	+	
426	4434.9	4436.3	4140.5	4141_9	4432	4433.4	4131	4132.4	
601	6506.4	6507.8	6200	6201.4	6507	6508.4	6200	6201_4	
	X	X	×	x	+	.+	+	+	
606	6521 . 9+	6523.3 *	6215.5+	6216.9*	6522+	6523.4-	6215+ ²	6216_4=	
801	8718.9	8720.3	8195	8196.4	8719	8720.4	8197	8198.4	
	X	x	x	x	+	+	+	+	
820	1	1	•			1	8254	8255.4	
821	8780.9 *	8782.3*	8257+	8258.4*	8779+	8780-4*	8314*	8315.4*	
822	X	x	x	x			8260	8261.4	
•	î	î	î	î	•		+	+	
-	,		,	,		•	•	•	
831	8811.9	8813.3	8288	8289.4	8809	8810.4	8287	8288.4	

X Frequencies spaced at 3.1 kHz intervals.

+ Frequencies spaced at 3.0 kHz intervals.

* The frequencies followed by an asterisk are calling frequencies (see Nos. 4375 and 4376).

1 For the conditions of use of the carrier frequency 4125 kHz see Nos. 2982 and N2982.

2 For the conditions of use of the carrier frequency 6215 kHz see Nos. 2986 and N2986.

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CEPT-13/20/13 (continued)

		1 - Prese	ent Frequ	encies.	Column 2 - Replacement Frequencies			
Chan.	Coast Stations Ship S			tations	Coast S	Coast Stations		tations.
	Carrier Freq— uency	Assigned Freq— ; uency	Carrier Freg- uency	Assigned Freq— uency	Carrier Freq- uency	Assigned. Freq- uency	Carrier Freq- uency	Assigned. Fr eq - uency
1201	13100.8	13102.2	12330	12331.4	13104	13105.4	12332	12333.4
r t	×	X	X	X	+	+	+	+
1221	13162.8*	13164.2+	12392*	12393.4*	13164#	13165.4+	12392+ ¹ 12230	12393.4 - 12231.4
г т	X t	X	X '	X '	+	+	+	1.
1232	13196.9	' 13198.3	' 12426_1	, 12427.5	13197	+ 13198_4	12260	12261.4
1601	17232.9	17234.3	16460	16461.4	17233	17234.4	16462	16463_4
1	x	x	X	×	+	+	+	+
162T	17294_9+	17296.3+	16522+	16523_4+	17293+	17294.4-	16522+ ²	16523_4+
¥ I	X	X	X	x	+	+	+	+
1630 1631		1 1	1 1	•	1	, , ,	1664 9 16360	16650_4 1636.T_4
•	T T	t t	1	•	1.		+	+
1641	17356_9	17358.3	16584	16585.4	17353	17354.4	16390	1639T_4
2201	22596	22597.4	22000	22007.4	22705	22706.4	22000	22007_4
·1	X I	X I	X	x	+	+	+	+
2221	22558 * '	22659.4*	22062 +	22063.4#	22765 +	22766_4=	22060+	22061.4-
1	X	X	X ·	X '	+	+	+	+
2240	22716.9	22718.3	22120.9	22122.3	22822	22823.4	22117	22118.4

X Frequencies spaced at 3.1 kHz intervals.

+ Frequencies spaced at 3.0 kHz intervals.

* The frequencies followed by an asterisk are calling frequencies (see Nos. 4375 and 4376).

1 For the conditions of use of the carrier frequency 12392 kHz see No. N2988D.

2 For the conditions of use of the carrier frequency 16522 kHz see No. N2988J.

CEPT-13/20/14 ADD

RESOLUTION NO. F

Relating to the Use of Non-Paired Ship Station Frequencies for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems¹

(see Article 60 and Table G of Appendix 31A)

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that certain sections of the HF bands allocated to the maritime mobile service are reserved for narrow-band direct-printing telegraph and data transmission systems operating on a non-paired frequency basis;

b) that neither the World Maritime Administrative Radio
 Conference, Geneva, 1974 nor the World Administrative Radio Conference,
 Geneva, 1979 were in a position to decide the extent to which it was
 necessary to regulate the orderly use of frequencies for the transmission
 by ship stations of non-paired direct-printing telegraph signals or on
 what basis this might be done;

c) that administrations operating or bringing into operation non-paired narrow-band direct-printing telegraph or data transmission systems for ships have notified the IFRB, for recording in the Master Register, the frequencies on which ship stations transmit;

d) that these notices have not been subject to technical examination by the Board, and that the assignments notified have been recorded in the Master Register for information only, with no date in Column 2;

e) that this Conference has provided administrations with guidance on how the frequencies reserved for non-paired narrow-band direct-printing telegraph and data transmission systems should be used by ship stations (see No. 4304);

resolves

1. that administrations operating or bringing into operation non-paired narrow-band direct-printing telegraph or data transmission systems for ships shall not be required to notify to the Board the frequencies on which ship stations transmit;

2. to instruct the IFRB to delete in the Master Register all assignments recorded therein as a result of the application of Resolution 301.

1 Replaces Resolution No. 301 of the World Administrative Radio Conference, Geneva, 1979

<u>Reason</u>: To provide a revised procedure for the use of non-paired ship station frequencies for narrow-band direct-printing telegraphy. CEPT-14/21/1* ADD

RESOLUTION G

Relating to the Early Implementation of the Frequency 156.525 MHz for Routine (Non-Distress) Purposes Using Digital Selective-Calling Techniques.

The World Administrative Radio Conference for the Mobile Services, Geneva 1987

noting

that the World Administrative Radio Conference for the Mobile Services, 1983 (WARC MOB-83), designated the frequency 156.525 MHz on an exclusive basis in the maritime mobile service for distress and safety calls by digital selective-calling techniques;

considering

a) that this Conference has decided that the frequency 156.525 MHz, previously designated only for distress and safety calls by digital selective-calling techniques, may also be used for routine (non-distress) calling and acknowledgement purposes (such as public correspondence) using digital selective-calling techniques;

b) that the Final Acts of this Conference will not enter into force until 15 April 1989;

c) that 156.525 MHz became available for distress and safety calls using digital selective-calling techniques on 1 January 1986;

d) that there is an urgent need to implement the use of digital selective calling on 156.525 MHz for purposes other than distress and safety at the earliest possible date;

resolves

that from 1 January 1988 the frequency 156.525 MHz may also be used for routine (non-distress) calling and acknowledgement purposes in accordance with the provisions of Article 62 of the Radio Regulations.

<u>Reasons</u>: There is an urgent need to implement this requirement at the earliest possible date.

CEPT-15/22/1* ADD

RESOLUTION H

Relating to Frequencies for Routine (Non-Distress) Calling in the Bands Between 1 605 kHz and 4 000 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

noting

a) that after the full implementation of the GMDSS the carrier frequency 2 182 kHz is to be used only for distress and safety purposes (see Resolution A);

b) that as a consequence there may be a need to provide a frequency for routine (nondistress) calling by radiotelephony; however, this Conference was not in a position to identify a specific frequency for this purpose in the bands between 1 605 kHz and 4 000 kHz;

c) that this Conference has provided the frequency pair 2 177 kHz (coast stations) and 2 189.5 kHz (ship stations) for routine (non-distress) calling using digital selective-calling techniques;

considering

that as this Conference has provided frequencies for routine (non-distress) calling using digital selective-calling techniques, there may no longer be a need to provide a frequency for routine (non-distress) calling by radiotelephony in the bands between 1 605 kHz and 4 000 kHz after the full implementation of the GMDSS;

resolves

to recommend that a future competent world administrative radio conference should consider whether there is a need to provide a frequency for routine (non-distress) calling by radiotelephony in the bands between 1 605 kHz and 4 000 kHz,

invites the Administrative Council

to include this question in the agenda of the next competent world administrative radio conference;

requests the Secretary-General

to communicate this Resolution to the International Maritime Organization.

UŞA/24/781 ADD

RESOLUTION No. Al

Relating to the Use of the Band 136-137 MHz by the Aeronautical Mobile (R) Service

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

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considering

a) that this Conference has deleted the secondary allocation to the mobile except aeronautical mobile (R) service from the band 136-137 MHz in the table of frequency allocations;

b) that the revised table now allocates the band 136-137 MHz to the aeronautical mobile (R) service on a primary basis, and to the fixed service on a secondary basis;

c) that provision is also made for allocation to the space operation service (space-to-Earth), the meteorological-satellite service (space-to-Earth) and the space research service (spaceto-Earth) on a primary basis up to 1 January 1990, and thereafter on a secondary basis, and that the aeronautical mobile (R) service can be introduced on a primary basis only after 1 January 1990, in conformity with internationally approved plans for that service;

d) that radio communications in the aeronautical mobile (R) service are safety-related and require special measures to ensure their freedom from harmful interference;

e) that after 1 January 1990 the aeronautical mobile (R) service may well be subject to interference harmful to the safety of air navigation and that it is of the utmost importance to protect this service against harmful interference from stations in the services to which the band 136-137 MHz is allocated on a secondary basis;

resolves

1. that administrations of all regions which have stations operating in the fixed service, the space operation service, the meteorological-satellite service and the space research service in the band 136-137 MHz after 1 January 1990 take all necessary steps to ensure the required protection to the aeronautical mobile (R) service as and when the stations of the aeronautical mobile (R) service come into operation; - 21 -MOB-87/DT/48-E

2. that after 1 January 1990 administrations refrain from authorizing new assignments to the services to which the band 136-137 MHz is allocated on a secondary basis (except the service mentioned in No. 591);

3. that the question of deleting all secondary allocations (except that mentioned in No. 591) from the band 136-137 MHz be referred to the next competent World Administrative Radio Conference;

invites

the Administrative Council to place this matter on the agenda of the next competent World Administrative Radio Conference.

<u>Reason</u>: To accommodate essential aeronautical services.

USA/24/782 ADD

RESOLUTION No. A2

Relating to the Use of Frequency Bands Allocated Exclusively to the Aeronautical Mobile Service for Various Forms of Public Correspondence.

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that administrations have notified to the IFRB assignments in the frequency bands allocated exclusively to the aeronautical mobile service where such assignments relate to public correspondence, limited public correspondence and correspondence of a private agency;

b) that such assignments are in contravention of No. 3633 of the Radio Regulations, which prohibits public correspondence in frequency bands allocated exclusively to the aeronautical mobile service;

c) that such assignments are capable of causing harmful interference to the aeronautical mobile service;

d) that radio is the sole means of communication available to the aeronautical mobile service and that this service is concerned with the safety and regularity of flight;

recognizing

a) that this Conference has made appropriate amendment to Article 12 of the Radio Regulations to allow the IFRB the flexibility required in dealing with notices not in conformity with No. 3633;

b) that it is of paramount importance that frequencies directly concerned with the safe and regular conduct of aircraft operations be kept free from harmful interference, since they are essential for the safety of life and property;

resolves

to urge administrations

1. to refrain from making assignments to stations for various forms of public correspondence in frequency bands allocated exclusively to the aeronautical mobile service;

2. to cease current operations for such use and delete present assignments for such use from the Master Register;

3. to take actions necessary to prevent land stations and stations on board aircraft from operating in contravention of No. 3633 of the Radio Regulations, with respect to the aeronautical mobile service;

to request the IFRB

1. to, as a matter of urgency, advise administrations concerned of those assignments contained in the Master Register which are in contravention of No. 3633 of the Radio Regulations with respect to the aeronautical mobile service;

2. to seek the cooperation of administrations in the cessation of operations in contravention of No. 3633 of the Radio Regulations with respect to the aeronautical mobile service and consequent deletion of the assignments concerned from the Master Register.

<u>Reason</u>: To minimize interference to the aeronautical mobile service.

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USA/24/783 ADD

RESOLUTION NO. A3

Relating to the Implementation of the New Arrangement of Radiotelegraphy and Radiotelephony Bands Allocated to the Maritime Mobile Service Between 4000 and 27500 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that each of the high-frequency radiotelegraphy and radiotelephony bands allocated exclusively to the maritime mobile service by the World Administrative Radio Conference, Geneva, 1979, has been modified by this Conference;

b) that the radiotelephony bands between 4000-4063 kHz and 8100-8195 kHz with allocations shared with the fixed service has been likewise modified;

c) that each of the high-frequency bands allocated exclusively to the maritime mobile service and listed in No. 532 has been sub-allocated for radiotelephony and radiotelegraphy by this Conference;

d) that the transfer of assignments should be made with the least possible disruption of the service provided by each station;

e) that the transfer of assignments should be made in such a manner that harmful interference between stations involved is avoided during the implementation period;

resolves

1. that the implementation of the decisions made by the present Conference relating to the new arrangement of the high-frequency bands allocated to the maritime mobile service should follow an orderly procedure for the transfer of the existing services from the old to the new assignments and for the introduction of new services;

2. that administrations shall make every effort to implement the new arrangement in accordance with the time schedule in Annex 1.

<u>Reason</u>: To provide for transition in reallocating services within the HF maritime mobile bands.

Resolution No. A3

ANNEX 1

(All frequencies in kHz)

Implementation Action*	From old band	To new band	Date
 Transfer ship station, telephony, duplex, and commence using new frequencies 	4063.0 - 4143.6 6200.0 - 6218.6 8195.0 - 8291.1 12330.0 -12429.2 16460.0 -16587.1 22000.0 -22124.0	4035 - 4134 6200 - 6227 8164 - 8281 12230 -12362 16360 -16537 18780 -18834 22000 -22171 25070 -25115	l Aug 1990
2. Transfer coast station, telephony, duplex, and commence using new frequencies	4357.4 - 4438.0 6506.4 - 6525.0 8718.9 - 8815.0 13100.8 -13200.0 17232.9 -17360.0 22596.0 -22720.0	4342 - 4438 6498 - 6525 8701 - 8815 13068 -13200 17236 -17410 19746 -19800 22684 -22855 26130 -26175	1 Aug 1990
3. Transfer ship and coast stations, tele- phony, simplex, and commence using new frequencies	4143.6 - 4146.6 6218.6 - 6224.6 8291.1 - 8297.3 12492.2 -12439.5 16587.1 -16596.4 22124.0 -22139.5	4134 - 4140 6230 - 6239 8281 - 8293 12362 -12377 16537 -16561 18834 -18858 22171 -22198 25115 -25145	1 Aug 1990
4. Transfer ship station, wideband telegraphy, facsimile, and special systems, and commence using new frequencies	4146.6 - 4162.5 $4166.0 - 4170.0$ $6224.6 - 6244.5$ $6248.0 - 6256.0$ $8300.0 - 8328.0$ $12439.5 - 12479.5$ $12483.0 - 12491.0$ $16596.4 - 16636.5$ $16640.0 - 16660.0$ $22139.5 - 22160.5$ $22164.0 - 22192.0$	4140 - 4160 6239 - 6267 8293 - 8333 12377 -12437 16561 -16637 18858 -18886 22198 -22258 25145 -25197	1 Aug 1990
5. Vacate ship sta- tion, oceanographic data transmission bands	4162.5 - 4166.0 6244.5 - 6248.0 8328.0 - 8331.5	· ·	31 Jul 1990

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Resolution No. A3

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ANNEX 1 (Continued)

Implementation Action*	From old band	To new band	Date
6. Transfer ship station, oceanograph- ic data transmission, and commence using new frequencies	12479.5 -12483.0 16636.5 -16640.0 22160.5 -22164.0	12437.00-12440.25 16637.00-16640.25 22258.00-22261.25	1 Aug 1990
7. Transfer ship station, paired, narrow-band direct- printing, and commence using new frequencies	6256.0 - 6267.75 8343.5 - 8357.25 12491.0 -12519.75 16660.0 -16694.75		l Aug 1990
8. Transfer coast station, paired, narrow-band direct- printing, and commence using new frequencies	6493.9 - 6505.75 8704.4 - 8718.25 13070.8 -13099.75 37196.9 -17231.75	13010.25-13047.75	l Aug 1990
9. Transfer ship and coast station, narrow-band direct- printing, simplex (non-paired), and commence using new frequencies	22225.75-22227.00	6267.25- 6269.25 8333.258336.25	l Aug 1990
10. Transfer ship station, AlA Morse telegraphy, working, and commence using new frequencies	16752.00-16859.40	6284.25- 6305.25 8358.25- 8396.75	1 Aug 1990

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Resolution No. A3

ANNEX 1 (Continued)

Implementation Action*	From old band	To new band	Date
11. Transfer ship station, A1A Morse telegraphy, calling, and commence using new frequencies		6305.25- 6311.25 8396.75- 8405.75 12572.25-12591.25 16802.75-16827.75	1 Aug 1990
12. Transfer ship station, digital selective calling, and commence using new frequencies	4187.20- 4188.25 6280.80- 6282.25 8374.40- 8376.00 12561.60-12564.00 16748.80-16752.00 22247.00-22250.00	6311.25- 6311.75 8405.75- 8406.75 12591.25-12592.25	l Aug 1990
13. Transfer coast station, wideband and A1A Morse telegraphy, facsimile, special and data transmission systems and direct- printing telegraph systems, and commence using new frequencies	6325.40- 6439.90	4198.75- 4328.75 6311.75- 6479.75 8406.75- 8675.75 12592.25-13010.25 16828.75-17165.75 19680.00-19737.75 22381.25-22631.25 26100.00-26121.75	l Aug 1990
14. Commence using for coast station, A1A Morse	-	4338.75- 4341.25 6494.25- 6497.25 8697.25- 8700.25 13047.75-13066.75 17211.75-17234.75 22670.25-22682.75	l Aug 1990
15. Transfer coast . station, digital selective calling, and commence using new frequencies	17231.75-17232.90	6497.25- 6498.00	l Aug 1990
16. Vacate ship station, AlA Morse, working	4172.75- 4175.25 6284.25- 6287.25 8358.25- 8361.25 12484.75-12503.75 16697.75-16720.75 22310.25-22322.25		31 Jan 1997

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Resolution No. A3

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.

ANNEX 1 (Continued)

Implementation Action*	From old band	To new band	Date
17. Commence using for ship station, narrow-band direct- printing, paired		4172.75- 4175.25 6284.25- 6287.25 8358.25- 8361.25 12484.75-12503.75 16697.75-16720.75 22310.25-22322.25	l Feb 1997
18. Vacate from coast station, A1A Morse	4338.75- 4341.25 6494.25- 6497.25 8697.25- 8700.25 13047.75-13066.75 17211.75-17234.75 22670.75-22682.75		1 Jan 1997
19. Commence using for coast station, narrow-band direct- printing, paired		4338.75- 4341.25 6494.25- 6497.25 8697.25- 8700.25 13047.75-13066.75 17211.75-17234.75 19737.75-19744.75 22670.75-22682.75	

* See also USA proposed Resolution No. A6

.

USA/24/784 ADD

RESOLUTION NO. A4

Data Transmissions from Maritime Radiobeacons

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the International Maritime Organization (IMO) has identified a need for data exchange between shore and ship in the case of radioavigation systems (e.g. Omega, GPS, Loran-C) operating in the differential mode;

b) that Resolution COM 4/1 (EMA) invited this Conference to consider the aspects of using maritime radiobeacons to transmit data to ships using either minimum shift keying (MSK) or frequency shift keying (FSK) techniques, and to choose between the two techniques;

c) that studies have shown that a need exists to offset the modulation signal from the carrier by 350-400 Hz to prevent interference to certain types of automatic radio direction finders, regardless of whether MSK or FSK modulation is chosen;

d) - • that these same studies have shown that MSK modulation has advantages over FSK because of improved spectral efficiency;

e) that the Regional Administrative Radio Conference for the planning of the Maritime Radionavigation Service (Radiobeacons) in the band 283.5-315 kHz in the European Maritime Area (Geneva, 1985) decided that radiobeacons in that region should be channeled in multiples of 500 Hz;

f) that if FSK or MSK modulation with a 350-400 Hz offset is encoded onto a radiobeacon signal in the European Maritime Area, then the digital modulation signal will be partially contained in the channel adjacent to the radiobeacon channel;

resolves

1. that transmissions of data to ships using FSK or MSK modulation on maritime radiobeacons be offset from the radiobeacon carrier signal an amount sufficient to ensure that no harmful interference is caused to automatic radio direction finders;

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2. that channeling plans for maritime radiobeacon systems accommodate the transmission of data to ships on maritime radiobeacons using frequency offset data modulation;

3. that the CCIR continue considering the technical factors and make recommendations;

requests the IFRB

to consider this Resolution in the registration of maritime radiobeacon stations which transmit data.

<u>Reason</u>: To provide for the transmission of data over radiobeacon systems. Adoption of this Resolution will negate the need for Resolution COM 4/1. USA/24/786 • ADD

RESOLUTION No. A6

Relating to the Establishment of Initial Allotments of Additional Duplex Radiotelephone Channels in Newly Available Spectrum

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

noting

that Nos. 532 and 544 of the Radio Regulations were added by the 1979 World Administrative Radio Conference;

considering

a) that, prior thereto, the fixed services enjoyed an exclusive worldwide allocation in each of the bands to which No. 532 was applied in 1979;

b) that the 1979 Conference, by Nos. 532 and 544, provided for the maritime mobile service to be brought into use within these bands subject to the satisfactory transfer of assignments to those stations of the fixed and mobile services operating in full accordance with the Radio Regulations;

considering further

that the present Conference, in revising the HF maritime mobile bands, including those set forth in Nos. 532 and 544, has made available an increased number of mobile radiotelephone channels;

recognizing

that through these actions newly available additional duplex radiotelephone channels have been identified in the radiotelephone channeling arrangements of Appendix 16, Section A, as follows:

Band (MHz)	Channel No.
4	427-432
6 .	607-609
8	832-838
12	1233-1244
16	1642-1658
18/19	1901-1918
22	2241-2257
25/26	2501-2515

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noting further

that the present Conference is of the view that

a) the current Appendix 25 allotment plan has effectively served the maritime mobile service and a change to the allotment arrangement for the channels in the plan is not required, and that

b) Article 16 of the Radio Regulations has proven effective in keeping the coastal radiotelephone allotment plan up to date by permitting the accommodation of additional requirements, and that

c) a procedure for the establishment of initial duplex radiotelephony allotments for the newly available additional channels is necessary;

resolves

1. that on [1 July 1989], initial allotments for all channels newly made available by the present Conference for duplex radiotelephony will be brought into existence simultaneously;

2. that the IFRB will develop the initial allotment arrangement by specifying the new allotments per administration, based on the applications for the new channels submitted by administrations. These administrations shall transmit their requirements to the Board by providing the information listed in Appendix 5 of the Radio Regulations before [1 February 1989];

3. that the IFRB will construct the initial allotment arrangement in keeping with the following principles;

3.1 the allotment areas to be used for the newly available channels in a given band will be each of those occurring on that date in the same megahertz order band appearing in Appendix 25;

3.2 the sharing to be used for each allotment will be based on the sharing arrangements used in the same megahertz order in Appendix 25 or, if different, will not result in a greater probability of harmful interference;

3.3 the Board shall inform administrations by [1 July 1989] on the formation of the initial allotment arrangement for the newly available channels; 4. that as from [2 July 1989] administrations may commence the application of Article 16 for the newly available channels;

5. that five years after the coming into existence of the initial allotment arrangement, the IFRB will consult with each administration having at least one unimplemented allotment therein and propose the deletion of each such allotment to increase efficient use of the spectrum, and, if the administration concurs, the IFRB will delete the allotment;

6. that if the allotments of the initial allotment arrangement have not been implemented by [1 July 2004] it shall be deleted by the IFRB without any need for further consultation;

invites

the IFRB to provide technical assistance in keeping with the Convention and Radio Regulations so as to facilitate the early use by administrations of duplex radiotelephony on those channels newly made available by the present Conference;

urges

all administrations who provide, within the lifetime of the initial allotment arrangement, a maritime mobile radiotelephone service on newly available channels to use the least amount of resource needed to provide a satisfactory service, and all other administrations to resort to the assistance available under the procedure set forth in Article 16 at such time as they plan to implement such a service.

<u>Reason</u>: To provide for an orderly implementation of new duplex telephone channels established as a result of the Conference.

USA/24/787 ADD

RESOLUTION NO. A7

Dedicated HF Maritime Mobile Channels for Broadcast of High Seas Marine Safety Information

2

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the International Maritime Organization (IMO) has reaffirmed the need for long range navigational and meteorological warnings to all ships on all voyages;

b) that operational limitations prevent NAVTEX or satellites from totally fulfilling this requirement;

c) that non-paired narrow-band direct printing channels in the HF maritime mobile (Appendix 31) bands may be needed to provide broadcasts of such information;

d) that international channels for this purpose have been identified by this conference in modifications to Appendix 31;

e) that HF propagation characteristics will require worldwide coordination of broadcasts to prevent interference;

noting

that the IMO and the International Hydrographic Organization (IHO) have identified sixteen Long Range Navigational Warning Areas (NAVAREAS), each under the jurisdiction of an area coordinator, for the promulgation of marine information and warnings;

resolves

1. that the IMO, the World Meteorological Organization (WMO) and the IHO be invited to develop jointly, in consultation with the IFRB, and in consultation with administrations of the Members, as appropriate, a coordinated plan for the use of and coordination of frequencies for HF narrow-band direct printing marine broadcast channels;

2. that administrations be encouraged to assign frequencies in conformance with the plan and the recommendations of the IMO, WMO and IHO for the portion of the worldwide system over which they have jurisdiction; 3. that the IMO, WMO and IHO be invited further to assume jointly the responsibility, in consultation with the IFRB, for keeping such a plan current;

4. that the plan developed under paragraphs 1 and 3 above shall be considered at the next competent administrative radio conference to determine what changes, if any, appear necessary to improve its effectiveness.

> <u>Reason</u>: To provide a means for broadcasting high seas marine safety information to mariners, using the HF maritime mobile bands.

USA/24/789 ADD

RESOLUTION No. A9

Relating to the Transfer of Frequency Assignments of Stations Operating in Accordance with Appendix 25

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that it has adopted a uniform spacing of 3.0 kHz for all duplex radiotelephone channels in the exclusive maritime mobile bands between 4000 kHz and 26000 kHz;

b) that it has brought into use the exclusive maritime mobile bands of Nos 532 and 544 for the maritime mobile service:

c) that these actions have provided for additional duplex radiotelephone channels;

d) that a procedure for the establishment of initial duplex radiotelephony allotments for the newly available additional channels has been set out in Resolution No. A6;

recognizing

a) that the allotment plan in Appendix 25 in force on (date of start of Conference) has been effective in serving the needs of the maritime mobile service;

b) the geographical grouping and pattern of use of frequency assignments in Appendix 25 for over 10 years has established a desirable duplex radiotelephone channel arrangement;

resolves

1. that the Appendix 25 allotment arrangements as of (date of start of Conference) will continue unchanged for the duplex radiotelephone channels identified in Appendix 16, Section A, as follows:

BAND (MHz)	CHANNEL No.
4	401-426
6	601-606
8	801-831
12	1201-1232
16	1601-1641
22	2201-2240

2. that the frequency assignments for the above channels will be obtained from the radiotelephone channeling arrangements of Appendix 16;

3. that at 0001 UTC on 1 August 1990, coast and ship radiotelephone stations shall change their transmitting and receiving frequencies to bring them into conformity with Appendix 16, Section A;

4. that administrations shall notify the IFRB of these transfers by 1 February 1991, in accordance with the provisions of Article 12 of the Radio Regulations;

5. provided that the notices received by the IFRB in accordance with paragraph 4, above, do not contain any changes in the basic characteristics of the originally recorded assignment, other than the assigned frequency, the IFRB shall record the change in the Master Register. The dates to be entered in the appropriate parts of Column 2 shall be those of the original assignment. Should any other change in the basic characteristics of the original assignment be notified, this change shall be dealt with in accordance with the provisions of Article 12 of the Radio Regulations.

> <u>Reason</u>: This Resolution is consequential to the general review of the HF bands allocated on an exclusive or shared basis to the maritime mobile service as shown in our Appendix 31 and Appendix 32 proposals. It establishes the necessary assignment procedure for the transfer of existing coast stations or the establishment of new stations.

USA/24/790 · ADD

RESOLUTION No. A10

Relating of the Transfer of Frequency Assignments of Stations Operating in the Bands Allocated Exclusively to Coast Radiotelegraphy in the Maritime Mobile Service Between 4000 and 23000 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the frequency band limits for coast radiotelegraphy have been modified as a result of the revision of the HF maritime mobile bands called for in Resolution 319 (Mob-83);

b) that the new limits of the frequency bands to be transferred for coast radiotelegraphy are:

> 4198.75-4328.75 kHz 6311.75-6479.75 kHz 8406.75-8675.75 kHz 12592.25-13010.25 kHz 16828.75-17165.75 kHz 22381.25-22631.25 kHz

recognizing

that the new arrangements of the frequency bands allocated to the maritime mobile service are interconnected and the transfer of frequency assignments in the coast radiotelegraphy bands must be phased so as to facilitate the new arrangements;

resolves

1. that the frequency assignments to stations in the coast radiotelegraphy bands which, on 31 July 1990, are recorded in the Master International Frequency Register, shall be transferred as follows:

- any frequency assignment <u>f</u> in the 4219.4-4349.4 kHz band shall be transferred to the frequency <u>f</u> - 20.65 kHz;
- any frequency assignment <u>f</u> in the -6325.4-6493.9 kHz band shall be transferred to the frequency <u>f</u> - 13.65 kHz;
- any frequency assignment <u>f</u> in the 8435.4-8704.4 kHz band shall be transferred to the frequency <u>f</u> - 28.5 kHz;

- any frequency assignment <u>f</u> in the 12652.3-13070.8 kHz band shall be transferred to the frequency <u>f</u> - 60 kHz;
- any frequency assignment <u>f</u> in the 16859.4-17196.9 kHz
 band shall be transferred to the frequency <u>f</u> 30 kHz;
- any frequency assignment <u>f</u> in the 22310.5-22561 kHz band shall be transferred to the frequency f - 69.5 kHz;

2. that on 1 August 1990, administrations shall transfer the transmitting frequencies of their stations as indicated in paragraph 1, above, notifying the IFRB of these transfers, in accordance with the provisions of Article 12 of the Radio Regulations;

3. provided that the notices received by the IFRB in accordance with paragraph 2, above, do not contain any changes in the basic characteristics of the originally recorded assignments, other than the assigned frequency, the IFRB shall record the change in the Master Register. The dates to be entered in the appropriate parts of Column 2 shall be those of the original assignment. Should any other change in the basic characteristics of the original assignment be notified, this change shall be dealt with in accordance with the provisions of Article 12 of the Radio Regulations;

4. that in those cases where the foregoing transfer procedure will result in an increase in the probability of a specific frequency assignment causing or experiencing harmful interference, the IFRB shall render all necessary assistance to the administrations concerned in order to solve the problem. In so doing, the IFRB shall apply the provisions of No. 1307 or Nos. 1445-1450 of the Radio Regulations, as the case might be.

<u>Reason</u>: This Resolution is consequential to the general review of the HF bands allocated on an exclusive or shared basis to the maritime mobile service as shown in our Appendix 31 and Appendix 32 proposals. It establishes the necessary assignment procedure for the transfer of existing coast stations or the establishment of new stations. USA/24/791 ADD

RESOLUTION NO. All

Relating to the Establishment of Procedures for the Use and Notification of the Paired Frequencies for Narrow-Band Direct-Printing Telegraph and Data Transmission

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the present Conference has brought into use the exclusive maritime mobile bands of Nos. 532 and 544 for the maritime mobile service;

b) that in revising the HF maritime mobile bands, including the new bands set forth in Nos 532 and 544, it has made available an increased number of paired frequencies reserved for narrowband direct-printing telegraph and data transmission systems for use on a paired basis only;

c) that these newly available additional channels are identified in the paired frequency arrangements of Appendix 32, as follows:

Band (MHz)	Series No.
4	15 - 25
6	24 - 35
8	28 - 49
12	58 - 113
16	70 - 137
18	1 - 14
22	68 - 103
25	1 - 14

recognizing

that a satisfactory procedure for the use and notification of paired frequencies for narrow-band direct-printing telegraph and data transmission has been established in Resolution No. 300; - 41 -MOB-87/DT/48-E

resolves

that Resolution 300 shall continue to provide procedures for the use and notification of paired frequencies reserved for narrow-band direct-printing telegraph and data transmission in the HF bands allocated to the maritime mobile service, including the additional channels indicated above.

> <u>Reason</u>: This Resolution is consequential to the general review of the HF bands allocated on an exclusive or shared basis to the maritime mobile service as shown in our Appendix 31 and Appendix 32 proposals. It establishes the necessary assignment procedure for the transfer of existing coast stations or the establishment of new stations.

> >

USA/24/792 ADD

RESOLUTION No. A12

Relating to the Transfer of Paired Frequency Assignments Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that it has brought into use the exclusive maritime mobile bands of Nos. 532 and 544 for the maritime mobile service;

b) that these actions have provided for additional narrowband direct-printing and data transmission channels;

c) that a means for the establishment of a procedure for the frequency assignment and use of these new available additional channels has been set out in Resolution No. A3;

recognizing

a) that the transfer of channels established by the World Administrative Radio Conference, Geneva, 1974, and which have already been placed into use should be made with the least possible disruption of the service provided by each station;

b) that a satisfactory procedure for the use and notification of paired frequencies for narrow-band directprinting telegraph and data transmission has been established in Resolution No. 300;

c) that the present coast station assignment arrangements for paired narrow-band direct-printing telegraphy and data transmission have provided an effective order for this service;

resolves

1. that the coast station and ship station channel arrangements as of (date of beginning of Conference) effected according to Resolution No. 300 shall continue in force unchanged with respect to channel numbers;

2. that the frequency assignments for these channels will be obtained from the paired narrow-band direct-printing and data transmission arrangements of Appendix 32; 3. that at 0001 UTC on 1 August 1990, coast and ship stations using paired narrow-band direct-printing and data transmission shall change their transmitting and receiving frequencies to bring them into conformity with Appendix 32;

4. that administrations shall notify the IFRB of these transfers by 1 February 1991, in accordance with the provision of Article 12 of the Radio Regulations;

5. provided that the notices received by the IFRB in accordance with paragraph 4, above, do not contain any changes in the basic characteristics of the originally recorded assignment, other than the assigned frequency, the IFRB shall record the change in the Master Register. The dates to be entered in the appropriate parts of Column 2 shall be those of the original assignment. Should any other change in the basic characteristics of the original assignment be notified, this change shall be dealt with in accordance with provisions of Article 12 of the Radio Regulations.

> <u>Reason</u>: This Resolution is consequential to the general review of the HF bands allocated on an exclusive or shared basis to the maritime mobile service as shown in our Appendix 31 and Appendix 32 proposals. It establishes the necessary assignment procedure for the transfer of existing coast stations or the establishment of new stations.

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USA/24/793 ADD

RESOLUTION NO. A13

Relating to the Mutual Protection of Radio Services Operating in the Band 70-130 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that various radio services, including radionavigation systems used by maritime and aeronautical services, operate in frequency bands between 70 and 130 kHz;

b) that radionavigation being a safety service, all practical means consistent with the Radio Regulations should be taken to prevent harmful interference to any radionavigation system;

c) that the CCIR noted users of phased pulse radionavigation systems in the band 90-110 kHz receive no protection outside the band, yet may receive benefit from their signals outside the occupied bandwidth;

noting

that CCIR studies show:

- that for CW radionavigation systems in the frequency bands 70-90 kHz and 110-130 kHz, the protection ratio should be 15 dB within the receiver passband of ± 7 Hz at 3 dB;
- that phased pulse radionavigation systems require a 15 dB protection ratio within the band 90-110 kHz;
- that these pulse radionavigation systems would be aided by out-of-band protection ratios of 5 dB within the bands 85-90 and 110-115 kHz, and 0 dB within the bands 80-85 and 115-120 kHz;

further noting

that CCIR recommended information be exchanged between authorities operating radionavigation systems in the band 90-110 kHz with those operating other systems in the band 70-130 kHz employing stable emissions;

recognizing

a) that radio services other than radionavigation occupying the bands 70-90 kHz and 110-130 kHz serve critically necessary functions that may be impacted;

b) that No. 343 requires that taking account of the frequency band assignment to a station, no harmful interference is caused to services to which frequency bands immediately adjoining are allocated;

c) that No. 953 recognizes the safety aspects of radionavigation and other safety services require special measures to ensure their freedom from harmful interference, and that it is necessary therefore to take this factor into account in the assignment and use of frequencies;

d) that No. 453 urges administrations which operate stations in the radionavigation service in the band 90-110 kHz to coordinate technical and operational characteristics in such a way to avoid harmful interference to the services provided by these stations;

e) that No. 451 directs that in the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 kHz in Region 1), non continuous wave radionavigation systems shall operate on a secondary basis;

resolves that administrations

1. in assigning frequencies to services in the bands 70-90 kHz, 90-110 kHz and 110-130 kHz, consider the potential mutual degradation to other stations of authorized services and apply protective measures;

2. use relevant CCIR Recommendations in ensuring that information is exchanged between authorities operating radionavigation systems in the band 90-110 kHz with those operating other systems in the band 70-130 kHz employing stable emissions, to assist in preventing potential interference problems;

3. encourage consultation, both nationally and internationally, between operators of radionavigation systems using the band 90-110 kHz and other systems using the band 70-130 kHz;

4. in order to encourage consultation among operators, develop and make available a list of contacts of such operators of systems;

requests the CCIR

to continue studies in this matter, particularly the development of technical criteria and standards to permit the conducting of compatible operations within the allocated bands and to assist in the developing of the list of contacts of system operators;

invites

1. the Administrative Council to place this matter on the agenda of the next competent world administrative radio conference;

2. the International Maritime Organization, the International Civil Aviation Organization, the International Association of Lighthouse Authorities and national authorities to communicate with the Union on the potential degradation of systems operating in the bands 70-90 kHz, 90-110 kHz and 110-130 kHz, together with their views and proposals resulting therefrom.

<u>Reason</u>: To ensure compatible operation of stations performing the allocated services within the bands between 70 and 130 kHz.

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USA/24/794 ADD

RESOLUTION NO. A14

Operation of Fixed Service in the Band 90-110 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) the need to protect phase pulse hyperbolic radionavigation systems (Loran) operating in the band 90-110 kHz used as a safety service for both maritime and aeronautical services;

b) the studies made by the CCIR in this band;

c) that harmful interference affecting safety of flight and ship navigation can occur to this service from the operation of fixed and maritime mobile services as a secondary allocation in this band;

d) that this Conference removed the allocation for the maritime mobile service from this band;

noting

that this Conference is not competent to significantly affect the allocation of a fixed service;

resolves

that the next competent conference review the fixed service allocation in this band with a view toward its deletion;

invites

the Administrative Council to place this matter on the agenda of the next competent world administrative radio conference.

<u>Reason</u>: To ensure that a future conference will address the protection of phase pulse hyperbolic radionavigation systems operating in the 90-110 kHz band.

D/30/100 ADD

New RESOLUTION No. I

<u>Use of Frequency 156.525 MHz for Digital Selective Calling in the</u> Maritime Mobile Service

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

- a) that the frequency 156.525 MHz is used for digital selective calling;
- b) that this frequency is assigned to the global maritime distress and safety system (GMDSS) for distress and safety alerting using digital selective calling techniques;
- c) that every effort must be made to prevent misuse of frequency 156.525 MHz;

recognizing

- a) that the World Administrative Radio Conference, Geneva, 1979, authorized the use of the frequency 156.525 MHz (channel 70) for intership communications and this use is operationally incompatible with the use of this channel specifically for distress and safety alerting purposes using digital selective calling techniques;
- b) that other maritime mobile communications on this frequency must cease as soon as practicable, but not later than 1 January 1988, to enable digital selective calling to be introduced on a full scale;

urges administrations

to take all practicable measures, including the possible use of technical means, to prevent any maritime mobile use of the frequency 156.525 MHz (channel 70) other than for digital selective calling for distress and safety purposes;

resolves that in the maritime mobile service

 as soon as practicable, but not later than 1 January 1988, the frequency 156.525 MHz shall be used exclusively for digital selective calling;

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- 2. no new assignments on this frequency shall be allowed, other than those for digital selective calling;
- 3. as soon as practicable, but not later than 1 August 1991, only such VHF radio stations may be installed in which the use of frequency

156.525 MHz for emissions other than those relating to digital selective calling has been prevented by technical means;

4. from 1 February 1997, only such VHF radio stations may be operated in which the use of frequency 156.525 MHz for emissions other than those relating to digital selective calling has been prevented by technical means.

<u>Reason:</u> Adaptation of Resolution No. 317 to current developments with a view to preventing misuse of frequency 156.525 MHz (channel 70) as this frequency is of general importance to digital selective calling and of special importance to distress and safety alerting in the GMDSS. URS/32/172 ADD

RESOLUTION URSS .../B

relative au transfert des assignations de fréquence des stations radiotélégraphiques côtières fonctionnant dans les bandes attribuées en exclusivité au service mobile maritime, entre 4 000 kHz et 23 000 kHz

La Conférence administrative mondiale des radiocommunications pour les services mobiles, Genève, 1987,

<u>considérant</u>

a) que les bandes de fréquences, attribuées aux stations côtières du service mobile maritime ont été modifiées en fonction des résultats du réexamen général des bandes d'ondes décamétriques du service mobile maritime effectué sur la base des Résolutions N^{os} 8 et 319 (MOB-83);

b) que les nouvelles limites des fréquences applicables aux stations radiotélégraphiques côtières sont spécifiées dans les dispositions révisées de l'article 60 et des appendices 31 et 32;

décide

1) que les assignations de fréquence aux stations radiotélégraphiques côtières, inscrites (à la date du ...) dans le Fichier de référence international des fréquences, seront transférées de la façon suivante:

- toute assignation de fréquence "f" de la bande 4 219,4 - 4 349,4 kHz sera transférée à la fréquence f - 30,9 kHz;
- toute assignation de fréquence "f" de la bande 8 435,4 - 8 704,4 kHz sera transférée à la fréquence f - 46,9 kHz;
- toute assignation de fréquence "f" de la bande 12 652,3 - 13 070,8 kHz sera transférée à la fréquence f - 51,8 kHz;
- toute assignation de fréquence "f" de la bande 16 859,4 - 17 196,9 kHz sera transférée à la fréquence f - 24,4 kHz;
- toute assignation de fréquence "f" de la bande 22 310,5 - 22 561 kHz sera transférée à la fréquence f + 68 kHz;

2) que, lors de ce transfert, aucune des caractéristiques des assignations de fréquence ne devra être modifiée;

3) que, lors de ce transfert, la date d'entrée en vígueur des assignations de fréquence indiquée dans la colonne 2, devra être maintenue;

4) que, à l'occasion de ce transfert, l'IFRB fournira aux administrations toute l'aide qui pourra leur être nécessaire.

5) que le transfert devra être achevé à 0001 h UTC. [...]. - 51 -MOB-87/DT/48-E

G/33/1

RESOLUTION NO [UK A]

Relating to the Provisions for the Development of a Worldwide Service of Aeronautical Public Correspondence

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

Considering

a) that market research studies and operational experience in some areas indicates a growing demand for a worldwide service of aeronautical public correspondence (APC), which the ITU must help to satisfy;

b) that a worldwide APC service will necessitate a combination of terrestrial and satellite radiocommunications techniques;

c) that there already exists a worldwide intergovernmental satellite organisation with the capacity of providing a worldwide APC service;

d) that the band 862-960 MHz is not allocated to the aeronautical mobile service on a worldwide basis;

e) that it would be beneficial to supplement and extend the satellite service by additionally developing a terrestrial APC service providing a spectrally efficient cost effective service over the more densely populated areas of the World;

f) that the band 1559-1626.5 MHz has at this Conference been additionally allocated to the aeronautical mobile service on a worldwide basis;

g) that the band mentioned in f) above would appear to have sufficient capacity taking account of existing systems to provide spectrum for a terrestrial APC service;

h) that this band is additionally contiguous to the bands where the satellite APC service will be operating;

i) that studies are required to determine the optimum technical and operational characteristics to be adopted for a terrestrial APC system.

j) that consideration must be given to electro-magnetic compatibility problems in the operation of radiocommunications and radionavigation equipment in aircraft.

Decides

that the ITU will provide appropriate assistance in the development of a worldwide APC service.

Resolves

1. that a worldwide aeronautical public correspondence service provided by an appropriate satellite system be established, consistent with the need to ensure priority for services concerned with the safety and regulatory of flight within the bands allocated to mobile-satellite services in the range 1530-1660.5 MHz;

2. that a terrestrial APC system shall also be developed to extend and supplement the satellite APC service mentioned in Resolves 1 above for those countries or geographical areas which require a cost effective spectrally efficient APC service;

3. that 2 MHz from the bands 1559-1562 MHz (ground to air) and 1623.5-1626.5 MHz (air to ground) be reserved for a terrestrial APC system, the precise 2 MHz paired bands to be selected will await further studies.

Invites the CCIR

1. to study urgently the frequency bands mentioned in resolves 3 above to provide a terrestrial APC service taking account of the need to protect existing systems operating in the same or adjacent frequency bands;

2. to additionally study the optimum technical and operational characteristics for a terrestrial APC system and to prepare a report for the XVII Plenary Assembly.

Invites the CCITT

to study the question of whether the introduction of an APC service will necessitate additional provisions relating to tariff principles, accounting and numbering schemes, and if appropriate prepare a report for consideration by a competent WATTC.

Invites Administrations

as a matter of urgency to arrange in their regional telecommunications organisations in conjunction with appropriate " aviation interests, discussions concerning the necessary provisions for their terrestrial APC service, including the locations of aeronautical stations, the foreseen traffic demands and the number of channels required.

Invites the Administrative Council

To take note of this Resolution and if appropriate following the reports to be prepared, include this subject in the agenda of a future WARC.

Instructs the Secretary General

To bring this Resolution to the attention of ICAO, INMARSAT and IATA and other appropriate organisations having an interest in the subject of APC. G/33/370 ADD

RESOLUTION UK/C

Relating to the Unauthorized Use of Frequencies in the Bands Allocated to the Maritime Mobile Service¹ and to the Aeronautical Mobile (R) Service²

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that monitoring observations of the use of frequencies in the band 2170-2194 kHz and in the bands allocated exclusively to the maritime mobile service between 4063 kHz and 27500 kHz and to the aeronautical mobile (R) service between 2850 kHz and 22000 kHz show that a number of frequencies in these bands are still being used by stations of services other than those services, notably by high-powered broadcasting stations, some of which are operating in contravention of No, 2665 of the Radio Regulations;

b) that these stations are causing harmful interference to the maritime mobile and aeronautical mobile (R) services and that a considerable number of emissions, the sources of which could not be positively identified, were observed in these bands;

c) that radio is the sole means of communication of the maritime mobile service and that certain frequencies in the bands mentioned in considering a) are reserved for distress and safety purposes;

d) that radio is the sole means of communication of the aeronautical mobile (R) service and that this service is a safety service;

considering in particular

e) that it is of paramount importance that the distress and safety channels of the maritime mobile service be kept free from harmful interference, since they are essential for the protection of the safety of life and property;

f) that it is also of paramount importance that channels directly concerned with the safe and regular conduct of aircraft operations be kept free from harmful interference, since they are essential for the safety of life and property;

resolves

to urge administrations

1. to ensure that stations of services other than the maritime mobile service abstain from using frequencies in distress and safety channels and their guardbands and in the bands allocated exclusively to that service, except under the conditions expressly specified in Nos. 342, 518, 519, 522 or 956 to 958 of the Radio Regulations; and to ensure that stations of services other than the aeronautical mobile (R) service refrain from using frequencies allocated to that service other than under the conditions expressly specified in Nos. 342 and 956 of the Radio Regulations;

Replaces Resolution No. 309 of the WARC, Geneva, 1979; Replaces Resolution No. 407 of the WARC, Geneva, 1979,

2. to continue to make every effort to identify and locate the source of any unauthorized emission capable of endangering human life or property and the safe, and regular conduct of aircraft operations, and to communicate their findings to the IFRB;

3. to participate in the monitoring programmes that the IFRB may organize pursuant to this Resolution;

4. to request their governments to enact such legislation as is necessary to prevent stations located off their coasts or on board aircraft operating in contravention of No. 2665 of the Radio Regulations;

to request the IFRB

1. to continue to organize monitoring programmes, at regular intervals, in the maritime distress and safety channels and their guardbands, an in the bands allocated exclusively to the maritime mobile service between 4063 kHz and 27500 kHz and to the aeronautical mobile (R) service between 2850 kHz and 22000 kHz, with a view to identifying the stations of other services operating on these channels or in these bands;

2. to take the necessary steps with a view to elimination of the emissions of stations of other services operating in these bands, which cause or are likely to cause harmful interference to the authorized maritime mobile and aeronautical mobile (R) services;

3. to seek, as appropriate, the cooperation of administrations in identifying the sources of those emissions by all available means and in securing the cessation of those emissions.

<u>Reason</u>: To place the content of Resolutions Nos. 309 and 407 in a single Resolution.

AUS/40/438 ADD

Draft Resolution AUS-B

Relating to the Use of Frequency Bands Allocated Exclusively to the Aeronautical Mobile Service for Various Forms of Public Correspondence

The World Administrative Radio Conference for Mobile Services, Geneva, 1987,

considering

a) that some Administrations have notified the IFRB of assignments in the frequency bands allocated exclusively to the aeronautical mobile service where such assignments relate to public correspondence, limited public correspondence and correspondence of a private agency;

b) that such assignments are in contravention of No. 3633 which prohibits public correspondence in frequency bands allocated exclusively to the aeronautical mobile service;

c) that such assignments are capable of causing harmful interference to the aeronautical mobile service;

d) that radio is the sole means of communication available to the aeronautical mobile service and that this service is concerned with the safety and regularity of flight;

recognizing

a) that this conference has made appropriate amendments to Article 12 to allow the IFRB the flexibility required in dealing with notices not in conformity with No. 3633;

b) that frequencies directly concerned with the safe and regular conduct of aircraft operations be kept free from harmful interference, since they are essential for the safety of life and property;

resolves

1. to urge administrations

a) to refrain from making assignments to stations for various forms of public correspondence in frequency bands allocated exclusively to the aeronautical mobile service;

b) to cease current operations for such use and to delete present assignments for such use from the Master Register;

2. to request the IFRB

a) to advise administrations concerned of those assignments contained in the Master Register which are in contravention of No. 3633 of the Radio Regulations;

b) to seek the co-operation of administrations in the cessation of operations in contravention of No. 3633 of the Radio Regulations and consequent deletion of the assignments concerned from the Master Register.

- 56 -MOB-87/DT/48-E

AUS/40/439 ADD

Draft Resolution No. AUS-C

Relating to a Dedicated HF Marine Mobile Channel for the Broadcast of NAVTEX Data on a 4 MHz Frequency

The World Administrative Radio Conference for Mobile Services, Geneva, 1987,

considering

a) that generally low antenna efficiencies and high atmospheric noise levels in the 500 kHz band in the tropical and sub-tropical regions of the world will limit the range at which NAVTEX signals transmitted on 518 kHz can be received in these areas; and

b) that in the 4 MHz band coast station antenna efficiencies are much higher and that atmospheric noise levels are significantly lower in the tropical and sub-tropical regions of the world; - 57 -MOB-87/DT/48-E

AUS/40/439 (cont.)

c) that a non-paired narrow-band direct-printing channel in a HF maritime mobile (Appendix 31) band may be needed to provide broadcasts of such information;

d) that an international channel for this purpose has been identified by this conference in modifications to Appendix 31;

further considering

that for a given transmitter output power, the range of 4 MHz signals propagating mainly in the ground wave mode will be greater than signals in the 500 kHz band in tropical and sub-tropical regions;

noting

that the IMO's Radiocommunications Sub-Committee has agreed that a need exists for countries in the tropical and sub-tropical regions to transmit NAVTEX data in a predominantly ground wave mode on a 4 MHz NBDP channel;

resolves

1. that the IMO, WMO (World Meteorological Organization) and the IHO be invited to develop jointly, in consultation with the IFRB, and in consultation with Administrations of the Members, as appropriate, a plan for the global co-ordinated use of the HF narrow-band direct-printing marine NAVTEX data channel;

2. that Administrations which need to use this channel be encouraged to assign the frequency in conformance with the plan and the recommendations of the IMO, WMO and IHO for the portion of the system over which they have jurisdiction;

3. that the IMO, WMO and IHO be invited further to assume jointly the responsibility, in consultation with the IFRB, for maintaining the plan;

4. that the plan developed under paragraphs 1 and 3 above, shall be considered at the next competent administrative radio conference to determine what changes, if any, appear necessary to improve its effectiveness.

<u>Reason:</u> Coverage of NAVTEX signals transmitted on 518 kHz will be limited in tropical and sub-tropical regions of the world and transmission of NAVTEX data in the predominantly ground wave mode on a 4 MHz frequency will provide greater coverage in these regions. AUS/40/440 ADD

Draft Resolution No. AUS-D

Relating to Dedicated HF Maritime Mobile Channels for the Broadcast of High Seas Marine Safety Information

The World Administrative Radio Conference for Mobile Services, Geneva, 1987,

considering

a) that there is a need for long range navigational and meteorological warnings to all ships on all voyages as part of the GMDSS;

b) that operational limitations prevent NAVTEX or satellites from totally fulfilling this requirement;

c) that non-paired narrow-band direct-printing channels in the HF maritime mobile (Appendix 31) bands may be needed to provide broadcasts of such information;

d) that international channels for this purpose have been identified by this Conference in modifications to Appendix 31;

noting

that the IMO and IHO (International Hydrographic Organization) have identified sixteen Long Range Navigational Warning Areas (NAVAREAs), each under the jurisdiction of an area coordinator, for the promulgation of marine information and warnings;

resolves

1. that the IMO, WMO (World Meteorological Organization) and the IHO be invited to develop jointly, in consultation with the IFRB, and in consultation with Administrations of the Members, as appropriate, a plan for the global coordinated use of the HF narrow-band direct-printing marine broadcast channels;

2. that Administrations be encouraged to assign frequencies, in conformance with the plan and the recommendations of the IMO, WMO and IHO for the portion of the worldwide system over which they have jurisdiction;

3. that the IMO, WMO and IHO be invited further to assume jointly the responsibility, in consultation with the IFRB, for maintaining the plan;

4. that the plan developed under paragraphs 1 and 3 above shall be considered at the next competent administrative radio conference to determine what changes, if any, appear necessary to improve its effectiveness.

<u>Reason</u>: Geostationary satellites cannot provide services to the polar regions and HF must be used. Additionally, some or all sixteen IMO NAVAREA coordinators may be required to broadcast marine safety information on international HF channels. CAN/25/499

ADD

RESOLUTION No. B

Relating to the Need for an Allotment Plan for Paired Frequencies for Narrow-Band Direct-Printing (NBDP) and Data Systems

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

that Appendix 32 of the Radio Regulations contains the channelling arrangement for NBDP and data systems (paired frequencies);

that the notification and use of these channels are governed by the provisions of Resolution No. D;

that, by the provisions of Resolution No. 300 of WARC-79, a future competent conference is invited to consider the status to be given to assignments made under the provisions of the interim measures contained in that Resolution;

that, as well, administrations are invited to examine any difficulties which may have arisen in the application of that Resolution and to consider, if appropriate, the conditions for drawing up a plan for the bands and systems in question;

further considering

that the frequencies used for NBDP are congested in many areas of the world;

that the present Conference has identified a limited number of additional frequencies for paired narrow-band direct-printing telegraphy and data transmission systems;

that there is a need to rationalize the use of the available channels in order that this resource may provide the maximum benefits possible to the Members of the Union;

that there is also a need to provide a greater degree of regulatory protection to NBDP operations in order to ensure viable operations;

recognizing

that difficulties have arisen with the application of Resolution No. 300 because harmful interference to adjacent channels is not taken into account in that Resolution;

that harmful interference has occurred to adjacent channel operations;

that the provisions of Resolution No. 300 of WARC-79 specify a procedure for resolving difficulties between countries only when they are using the same channel;

- 60 -MOB-87/DT/48-E

CAN/25/499 (contd.)

that because of these difficulties, the CCIR has been requested to study the matter of compatibility between adjacent channels and present its conclusions to the next competent conference (see Resolution No. C);

resolves

that a future competent conference be invited to establish an allotment plan and associated procedures for the effective use of the channels contained in Appendix 32 of the Radio Regulations;

that, in the meantime, the interim procedures contained in Resolution No. D and the provisions of Resolution No. C shall be applied;

that administrations shall cooperate to the fullest extent possible in the resolution of difficulties including adjacent channel harmful interference, noting in particular the spacing constraints associated with the paired frequencies;

invites the Administrative Council

to place this matter on the agenda of the next competent conference.

- 61 -MOB-87/DT/48-E

CAN/25/500

RESOLUTION No. C

Relating to the Need for Technical Improvements to Minimize the Risk of Adjacent Channel Harmful Interference Between Assignments Used for Narrow-Band Direct-Printing (NBDP) Telegraphy and Data Systems in Accordance with Appendix 32 and Resolution No. D

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

ADD

that Appendix 32 of the Radio Regulations contains the channelling arrangement for NBDP and data systems (paired frequencies);

that the use of these frequency pairs is subject to the provisions of Article 60 of the Radio Regulations and Resolution No. D;

that the spacing between the frequencies listed in Appendix 32 is quite narrow (i.e. 500 Hz);

that Section 2 of Resolution No. 300 of WARC-79 specifies "that a future competent conference be invited to examine any difficulties which may have arisen in the application of this Resolution" and take the appropriate action;

that Resolution No. B of the present Conference has resolved that an allotment plan and associated procedures be developed at a future competent conference for the frequency pairs in question;

that the present conference has decided to adopt No. 4321B which specifies the maximum mean powers to be used by coast stations for F1B and J2B emissions in bands between 4 000 kHz and 27 500 kHz;

CAN/25/500 (contd.)

resolves

that administrations cooperate to the fullest extent possible in resolving harmful interference in the adjacent channels;

that, in the case of harmful interference to adjacent channel operations, due account is to be taken of the date of receipt of the assignment notices by the IFRB;

that these provisions supplement those of Resolution No. D insofar as adjacent channels harmful interference problems are concerned;

requests the CCIR

to study the matter of technical compatibility between adjacent channels to determine the need for technical and operational controls (e.g. increased spacing, guard bands, power restrictions, etc.);

to take into account the maximum mean powers now permitted in No. 4321B for coast radiotelegraph stations employing class FlB or J2B emissions in various bands between 4 000 and 27 500 kHz;

to present the results of its studies to the next competent conference.

CAN/25/501

RESOLUTION No. D

Relating to the Notification and Use of Paired Frequencies Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems in the HF Bands Allocated to the Maritime Mobile Service (Appendix 32)¹

The World Administrative Conference for the Mobile Services, Geneva, 1987,

considering

ADD

that certain parts of the high frequency bands allocated to the maritime mobile service have been reserved for narrow-band direct-printing telegraph and data transmission systems for use on a paired frequency basis only;

that the existing frequencies are congested in many areas of the world and efficient use of the channels on a world-wide basis has suffered due to the lack of adequate planning;

that the present Conference has provided some additional frequency pairs but that the number of frequency pairs in each band is still limited;

that the World Maritime Administrative Radio Conference, Geneva, 1974 considered it inopportune to draw up a plan at that time but that such a plan might later be considered necessary by the congested state of channels;

¹ Replaces Resolution No. 300 of WARC-79

CAN/25/501 (contd.)

that the present Conference, having reviewed the matter, has decided that an allotment plan is necessary in order to permit optimum use of the channels to the benefit of Members of the Union as a whole;

that the present Conference has adopted Resolution No. B to this effect in which the Administrative Council is invited to take the necessary action;

recognizing

that the World Maritime Administrative Radio Conference, Geneva, 1974 adopted, in Resolution No. Mar2-7 interim measures to be taken by administrations and the IFRB in order to provide for the orderly introduction of the paired frequencies;

that these interim measures were confirmed by the World Administrative Radio Conference, Geneva, 1979 in its Resolution No. 300;

that until the coming into force of an allotment plan for the paired frequencies, there is a need for interim procedures for the notification and use of these frequencies;

resolves

1. that paired frequencies in the HF bands reserved for narrow-band direct-printing telegraphy between coast stations and ship stations shall be notified and recorded in the Master International Frequency Register (MIFR) in the following manner:

1.1 assignment of pairs of frequencies for transmission and reception shall be made solely to coast stations. Ship stations of any nationality shall use by right for their transmissions the receiving frequencies of the coast stations with which they exchange traffic;

1.2 although protection is not afforded to existing operations using the same channel, administrations shall take account of the assignments registered in the Master Register, to the extent that these assignments are in actual use, in order to reduce the incidence of conflicts to a minimum;

1.3 in attempting to identify suitable frequency pairs, administrations may seek the assistance of the IFRB;

1.4 the assignments shall be notified to the IFRB in accordance with the criteria given in Sections A and B of Appendix 1 to the Radio Regulations;

1.5 if the assignments conform to the Table of Frequency Allocations, to the related provisions of the Radio Regulations and to this Resolution, the Board shall enter them for information in Part 1A of its Weekly Circular and in the Master Register. No date will be entered in Columns 2A, 2B, 2C and 2D of the Master Register and no technical examination for compatibility with existing assignments will be carried out by the Board. The date of receipt of the notice by the Board will be entered in Part 1A of the Weekly Circular and in the Remarks Column of the Master Register. A reference to this Resolution shall also be entered in the Remarks column;

CAN/25/501 (contd.)

1.6 any notice not in conformity with the above-mentioned provisions of the Radio Regulations and this Resolution shall be returned to the notifying administration by the IFRB, together with any suggestion which the Board may be able to submit in this respect;

1.7 should difficulties arise between countries using the same channel, or adjacent channels, the matter shall be settled by mutual arrangements between the administrations concerned;

2. that the entries recorded in the Master Register as a result of the application of the provisions of the Radio Regulations and this Resolution shall not prejudice any decisions which may be taken by the Conference referred to in Resolution No. 8;

3. that this Resolution shall apply to assignments of paired frequencies for narrow-band direct-printing telegraphy notwithstanding any other provisions of the Radio Regulations and existing Resolutions of administrative radio conferences that may conflict with this Resolution. CAN/25/502

RESOLUTION No. E

Relating to the Need for the IFRB to Study the Question of Including Regional Plans in the Radio Regulations and Submit a Report to the 1989 Plenipotentiary Conference on the Matter

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

ADD

that the World Administrative Radio Conference for the Mobile Services, Geneva, 1983 adopted Resolution No. 704 (Mob-83) relating to the holding of a regional administrative radio conference to prepare frequency assignment plans for the maritime mobile service in the bands between 435 kHz and 526.5 kHz and in parts of the band between 1 605.5 kHz and 3 400 kHz in Region 1 and to plan for the aeronautical radionavigation service in the band 415 - 435 kHz in Region 1;

that by the provisions of the same Resolution, the Administrative Council was invited to include in the agenda of the World Administrative Radio Conference for the Mobile Services, Geneva, 1987 an item covering the inclusion in the Radio Regulations of the appendices relating thereto;

that the Regional Administrative Radio Conference, Geneva, 1985 adopted Final Acts pertaining to the referenced Region 1 plans;

that the present Conference has examined these plans in consideration of the relevant agenda items;

further considering

that there are certain matters pertaining to the Region 1 plans and associated provisions that require the attention of other ITU Regions; CAN/25/502 (cont.)

that the band 1 605 - 1 705 kHz is being planned in Region 2 for MF broadcasting and that this matter will be treated at the second session of the Region 2 MF Broadcasting Conference in 1988;

that the ITU Administrative Council declined to propose for inclusion in the agenda of WARC-ORB-88 the incorporation of the Final Acts of the second session of the Region 2 MF Broadcasting Conference in the band 1 605 - 1 705 kHz;

recognizing

that regional plans are not normally incorporated into the Radio Regulations;

that an exceptional case occurred in 1985 when the Region 2 Broadcasting Satellite Plan was incorporated into the Radio Regulations by WARC-ORB-85 noting that this action was required to complete the "world plan" as decided upon by the 1977 World Broadcasting-Satellite Conference;

resolves

that the question of including regional plans in the Radio Regulations should be considered by the 1989 Plenipotentiary Conference;

that in order for all relevant information to be available to that Conference, the IFRB should prepare a report on the matter and submit it to the Conference for consideration;

that administrations should also consider the matter in order to enable the Plenipotentiary Conference to reach a decision on the matter;

that a decision on incorporating the Region 1 plans into the Radio Regulations be postponed pending a decision on the matter of including regional plans in general by the Plenipotentiary Conference;

requests the IFRB

to prepare a report on the subject and submit it for consideration by the 1989 Plenipotentiary Conference;

invites the Administrative Council

to bring to the attention of the Plenipotentiary Conference the need for a decision by that Conference on the inclusion of regional plans in the Radio Regulations by a future administrative radio conference.

DNK/FNL/ISL/NOR/S/52/1

ADD

RESOLUTION No. ...

Relating to the Use of Channels for Digital Selective Calling in the Maritime HF bands

The World Administrative Radio Conference for the Mobile Services, Geneva 1987,

noting

- a) that this Conference has designated channels in the maritime HF bands for digital selective calling,
- b) that this Conference has agreed on an Allotment Plan (annexed to this Resolution) for distribution of these channels between groups of coast stations by Countries and Areas,

considering

that the effectiveness of the digital selective calling services provided requires agreement between administrations with respect to use of these channels,

invites

- administrations providing an international public correspondence service using digital selective calling techniques to determine, after coordination as far as possible with other interested and affected administrations in the group concerned, the channels or channel on which an automatic digital selective calling watch will be maintained,
- b) administrations providing such automatic digital selective calling watch to indicate for publication in the List of Coast Stations the hours of service and the frequencies or frequency on which the automatic watch is maintained,

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 to 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 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;

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,
- in the light of the foregoing consultation with the administrations concerned 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.

ANNEX TO RESOLUTION No. ...

Allotment Plan for Distribution of Digital Selective Calling Channels for National Use in the Maritime HF bands between Coast Stations by Countries and Areas

For the frequencies of the channels, see Appendix 31A, Table E.

Country or Area	4	6	8	12	16			25
Azores	chl	chl	ch2	chl	chl	chl	ch2	ch2
Angola	2	2	3	2	2	2	3	3
Bahamas								
Bahrain			(etc				
Bangladesh								
Brazil								
Canada								
Chile								

Frequency Band (MHz)

- •
- -
- •

- 71 -MOB-87/DT/48-E

HOL/55/1 ADD

RESOLUTION (HOL C)

Relating to the Procedures Applicable to Stations Transmitting Navigational and Meteorological Warnings and Urgent Information to Ships on the Frequencies 518 kHz (NAVTEX) and 490 kHz using Automatic Narrow-Band Direct-Printing Telegraphy

The World Administrative Radio Conference for the Mobile Services, Geneva 1987,

considering

- a) that in the maritime mobile service the frequency 518 kHz is used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information using Narrow-Band Direct-Printing Telegraphy (NAVTEX) (see No 2971 B);
- b) that the NAVTEX transmissions on the frequency 518 kHz will be in the English language;
- c) that this Conference allocated the frequency 490 kHz to be used exclusively for transmissions of similar warnings and information in other languages;
- d) that the proper functioning of such systems is dependent on the coordinated use of the frequencies mentioned by the coast stations involved;
- e) that the coordination of the operational aspects of the NAVTEX system is being undertaken by the International Maritime Organization (IMO) and the International Hydrographic Organization (IHO);
- f) that the IMO, in cooperation with the IHO, provides guidance on the operational aspects of these matters in order to-ensure coordination of transmissions by coast stations;

HOL/55/1 (contd.)

 g) that the frequency bands 435-495 kHz and 510-526.5 kHz (510-525 kHz in Region 2) are allocated on a shared basis to several services;

resolves

 that the procedures contained in the Annex to this Resolution shall be applied for coordinating the planned use of the frequencies 490 and 518 kHz for the transmission of navigational and meteorological warnings and urgent information prior to notifying the frequency assignments concerned in accordance with article 12 of the Radio Regulations;

urges administrations

- to refer to and comply with, to the maximum extent possible CCIR Recommendation 540-1 concerning the "Operational and Technical Characteristics for an Automated Direct-Printing Telegraph System for Transmissions of Navigational and Meteorological Warnings and Urgent Information to Ships";
- intending to use the frequency 518 kHz for the promulgation of navigational and meteorological warnings and urgent information to ships to effect appropriate operational coordination with the IMO and the IHO;
- intending to use the frequency 490 kHz for the promulgation of Navigational and Meteorological Warnings and Urgent Information to ships to effect appropriate coordination;
- 4) to refrain from authorizing transmissions which could cause harmful interference to the reception of navigational and meteorological warnings and urgent information on the frequencies 490 and 518 kHz;

requests the IMO and the IHO

to carry out any operational coordination that may be necessary;

requests the Secretary-General

to communicate this Resolution to the IMO, IHO and WMO.

- 73 -MOB-87/DT/48-E

HOL/55/1 (contd.)

ANNEX TO RESOLUTION (HOL C)

Procedure to be applied by Administrations and IFRB for the Coordination of the planned use of the Frequency 518 kHz (NAVTEX) and of the Frequency 490 kHz for the Transmission by Coast Stations of Navigational and Meteorological Warnings and Urgent Information to Ships by means of Automatic Narrow-Band Direct-Printing Telegraphy (NAVTEX).

- Before an administration notifies the Board of a frequency assignment to a coast station for the transmission of navigational and meteorological warnings and urgent information to ships by means of automatic narrow-band direct-printing telegraphy, it shall coordinate this frequency assignment:
 1.1 with respect to similar usages recorded in the Master Register or
 - under coordination in accordance with the present procedure; 1.2 with respect to assignments to stations of other services to which the band 517.5 - 518.5 kHz is allocated.
- 2.1 The information to be communicated by Administrations to the IFRB shall be the characteristics as listed in Section A of Appendix 1 to the Radio Regulations, Geneva 1979, together with the following additional characteristics
 - 1) regular transmission schedule allocated to the station;
 - 2) the duration of transmissions;
 - 3) the B₁ character (transmitter coverage area identifier) to be used by the coast station (CCIR Recommendation 540-1);
 - 4) the ground-wave coverage area of transmission;
- 2.2 the procedure shall be initiated not earlier than one year and not later than six months before the proposed date of putting the assignment into use;
- 2.3 the IFRB shall publish this information within 45 days of its receipt, in a special section of its weekly circular and shall send a copy of this publication to IMO, IHO and WMO requesting them to communicate to the administration concerned, with a copy to the IFRB, any information which may assist in reaching agreement on coordination;

HOL/55/1 (contd.)

- 2.4 on expiry of a period of four months from the date of publication of the information in the special section, the administration responsible for the assignment may notify the IFRB in accordance with No. 1214 of the Radio Regulations indicating the names of administrations with which agreement was reached and those which have expressly communicated their disagreement;
- 2.5 on receipt of the notice of the frequency assignment the Board shall take into account the results of the application of the procedure and examine it in accordance with the provisions of Nos. 1241 en 1245 and the related provisions of Article 12 of the Radio Regulations;
- 2.6 the Board shall update and publish at appropriate intervals the data received in a special list in an appropriate form.

AUS/40/580

Draft Resolution AUS-E

Relating to the Use of the Band 136-137 MHz by the Aeronautical Mobile (R) Service

The World Administrative Radio Conference for Mobile Services, Geneva, 1987

noting

a) the provisions of Recommendation 404 and No. 595 concerning the future use of the band 136-137 MHz by the aeronautical mobile (R) service commencing on 1 January 1990;

b) that the aeronautical mobile (R) service is primarily a safety service and therefore requires special measures to ensure freedom from harmful interference;

considering

a) that, as from 1 January 1990, the table of frequency allocations (see No. 595) includes allocations to the aeronautical mobile (R) service on a primary basis, and to the fixed and mobile, except aeronautical mobile (R) services on a secondary basis, in the band 136-137 MHz;

b) that provision is also made for allocation to the space operation service (space-to-Earth), the meteorological-satellite service (space-to-Earth) and the space research service (space-to-Earth) on a primary basis up to 1 January 1990, and thereafter on a secondary basis, and that the aeronautical mobile (R) service can be introduced on a primary basis only after 1 January 1990, in conformity with internationally approved plans for that service;

c) that on that date the aeronautical mobile (R) service may be subject to interference harmful to the safety of air navigation and that it is therefore necessary to protect this service from harmful interference that might be caused by stations in the fixed service, the mobile except aeronautical mobile (R) service, the space research service (space-to-Earth), the space operation service (space-to-Earth) and the meteorological- satellite service (space-to-Earth);

resolves

that Administrations operating or intending to operate, stations in the fixed service, the mobile except aeronautical mobile (R) service, the space operation service (space-to-Earth), the meteorological-satellite service (space-to-Earth) and the space research service (space-to-Earth) in the band 136-137 MHz after 1 January 1990 take all necessary steps to protect the aeronautical mobile (R) service;

urges Administrations

to cease operation of stations of the other services to which the band is allocated on a secondary basis as and when the stations of the aeronautical mobile (R) service come into operation;

invites the Administrative Council

to place this matter on the agenda of the next competent World Administrative Radio Conference to determine whether all secondary allocations (except that mentioned in RR591) should be deleted from this band. I/97/3 ADD

DRAFT RESOLUTION Relating to the use of the Band 136–137 MHz by the Aeronautical Mobile (R) Service

The World Administrative Radio Conference Mobile, Geneve 1987

considering

- a) that the aeronautical mobile (R) service is a safety service and therefore requires an exclusive allocation on a world-wide basis;
- b) that safety services require special measures to ensure their freedom from harmful interference;
- c) that the table of frequency allocation includes allocation to the aeronautical mobile (R) service on a primary basis, and to the fixed and mobile, exept aeronautical mobile (R) services on a secondary basis, in the band 136 - 137 MHz;
- d) that provision is also made for allocation to the space operation service (space-to-earth), the meteorological-satellite service (space-to-earth) and the space research service (space-to-earth) on a primary basis up to 1 January 1990, and thereafter on a secondary basis, and that the aeronautical mobile (R) service can be introduced on a primary basis o nly after 1 January 1990, in conformity with internationally agreed plans for that service;
- e) that on that date the aeronautical mobile (R) service may well be subject to the interference harmful to the safety of air navigation and that it is of the utmost importance to protect this service against interference from stations in the fixed service, the space research service (space-to-earth), the space operation service (space-to-earth) and the meteorological-satellite service (space-to-earth);

resolves

that Administrations of all regions operating or intending to operate stations in the fixed service, t, the space operation service (space -toearth), the meteorological satellite service (space-to-earth) and the space research service (space-to-earth) in the band 136-137 MHz after 1 January 1990 take all necessary steps to ensure the required protection to the aeronautical mobile (R) service and to cease operation of station of the other services to which the band is allocated on a secondary basis as and when the stations of the aeronautical mobile (R) service come in to operation;

invites

the Administrative Council to place this matter on the agenda to the next competent World Administrative Conference with the aim of deleting all secondary allocation (except that mentioned in RR 591)in this band. PRG/61/149 ADD

RESOLUTION No. 407 A

Relating to the Unauthorized Use of Frequencies in the Bands Allocated to the Aeronautical Mobile (R) Service¹

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that radio is the sole means of communication available to aircraft for the aeronautical mobile (R) service;

b) that this service watches over the security and regularity of air navigation;

c) that it is of paramount importance that channels directly concerned with the safe and regular conduct of aircraft operations be kept free from harmful interference, since they are essential for the safety of life and property;

d) that a number of frequencies in the bands allocated exclusively to the aeronautical mobile (R) service between 2 850 kHz and 22 000 kHz are used by stations of services other than the aeronautical mobile (R) service;

e) that these stations are causing harmful interference to the aeronautical mobile (R) service and may thus endanger human life and air navigation;

resolves

1. to urge administrations to take all necessary steps to ensure that stations of services other than the aeronautical mobile (R) service refrain from using frequencies in the bands allocated exclusively for the use of the aeronautical mobile (R) service;

2. to make every effort to ensure that such emissions are made in appropriate bands allocated to those services other than the aeronautical mobile (R) service;

Replaces Resolution No. 407 of the World Administrative Radio Conference (Geneva, 1979).

instructs the IFRB

 to continue to organize monitoring programmes in the bands allocated exclusively to the aeronautical mobile (R) service between 2 850 kHz and 22 000 kHz with a view to identifying the source of emissions coming from stations of other services;

2. once the station of another service emitting on a frequency attributed to the aeronautical mobile (R) service has been identified, to inform the administration concerned;

calls upon

administrations, in such a case, to take all necessary steps to stop any emissions contravening the provisions of the Radio Regulations concerning the aeronautical mobile (R) service. INTERNATIONAL TELECOMMUNICATION UNION

MOB-87 INTERNATIONAL TELECONMUTATION OF THE MOBILE SERVICES TO GENEVA, September-October 1987

Document DT/49-E 28 September 1987 Original: English

WORKING GROUP 5 AD HOC 1

Draft

SECOND REPORT OF WORKING GROUP 5 AD HOC 1 TO COMMITTEE 5

At its third meeting, the Working Group agreed to adopt 1. Resolution No. [COM5/3] as a consequence of the suppression of Resolution No. 206 (see Annex 1). It should be noted that certain provisions adopted in Working Group 5-B may have to be reviewed in the light of this decision.

2. The Working Group also adopted a revised version of Resolution No. 322 as contained in Annex 2.

> R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

Annexes: 2

- 2 -MOB-87/DT/49-E

ANNEX 1

RESOLUTION No. [COM5/3]

Relating to the Date of Entry into Force of the 10 kHz Guardband for the Frequency 500 kHz in the Mobile Service (Distress and Calling)

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the frequency spectrum should be used in the most efficient way possible;

b) that the World Administrative Radio Conference, Geneva, 1979, adopted a 495 kHz to 505 kHz guardband for the frequency 500 kHz, which is the international distress and calling frequency for radiotelegraphy in the mobile service;

c) that the use of frequencies in the band 490 - 510 kHz must be such as to provide full protection for distress and safety communications on 500 kHz;

d) that an adequate amortization period has been allowed for the radio equipment currently in service;

recognizing

that WARC-83 asked this Conference to decide on the date of entry into force of the definitive 495 kHz to 505 kHz guardband;

resolves

that the date of entry into force of the 10 kHz guardband for the frequency 500 kHz shall be the date for the full implementation of the GMDSS.

SUP Resolution No. 206

ANNEX 2

RESOLUTION No. 322(Rev.)

Relating to the Selection of Coast Stations and Coast Earth Stations to Assume Watch-Keeping Responsibilities on Certain Frequencies in Connection with the Implementation of Distress and Safety Communications for the GMDSS

The World Administrative Radio Conference for the Mobile Services Geneva, 1987,

considering

a) that the International Maritime Organization (IMO) is implementin a global maritime distress and safety system (GMDSS);

b) that this Conference has placed provisions in the Radio Regulations for distress and safety communications for the GMDSS to facilitate the progressive implementation of the new system while maintaining provision for continuation of the existing system during a transitional period;

c) that the new system necessitates the use or the exclusive use of number of additional frequencies for maritime distress and safety purposes;

d) that the extra watch-keeping responsibilities associated with these additional frequencies may be too onerous to be assumed, for MF, HF and VHF frequencies, by all coast stations open to public correspondence and, for space systems, by all coast earth stations;

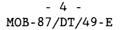
e) that the additional frequencies are to be used as part of a world wide coordinated distress system which will require selected coast stations and selected coast earth stations to keep watch on specific frequencies;

recognizing

a) that for the successful implementation of the new system there must be adequate geographical distribution of coast earth and coast stations keeping watch on the appropriate frequencies as well as those no in use;

b) that IMO is the organization best qualified to coordinate, with the agreement of administrations, a plan of coast earth stations and coas stations to accept watch-keeping responsibilities on the frequencies use in the system;

MOD



resolves to invite IMO

in cooperation with the ITU, to coordinate a plan for selected coast stations to assume watch-keeping responsibilities on the DSC frequencies and for selected coast earth stations to assume watch-keeping responsibilities on appropriate space system frequencies provided for use in the GMDSS and to forward this plan to the Secretary-General of the ITU who shall bring it to the attention of all administrations and shall also include the appropriate information in the [List of selected coast and coast earth stations participating in the GMDSS. (See Article 26 and Appendix 9.)];

requests the Secretary-General

to communicate this Resolution to the IMO.

INTERNATIONAL TELECOMMUNICATION UNION **OB-87** WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/50-E 28 September 1987 Original: English

WORKING GROUP 6-A

Note by the Secretary-General

APPENDIX 11

Section VA Stations on board ships participating in the GMDSS

Further to the report furnished in Document 28 on action taken pursuant to Resolution No. 322 (MOB-83) re selected coast stations to assume additional watch-keeping responsibilities on the frequencies identified for use in the FGMDSS, I have the honour to submit to Working Group 6-A, a cost estimate as requested for the publication of this data along with related information in a separate service document.

> R.E. BUTLER Secretary-General

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

Resolution No. 322 (MOB-83) resolves to invite the IMO in cooperation with the ITU, to coordinate a plan for selected coast stations to assume additional watch-keeping responsibilities on the frequencies identified for use in the FGMDSS and to forward this plan to the Secretary-General of the ITU, who shall bring it to the attention of all administrations and shall also include the appropriate information in the List of Coast Stations;

Administrations were consulted with respect to the number of coast stations likely to be identified for use in a FGMDSS. Replies were received from 28 countries and a total of 43 coast stations were designated as selected coast stations to assume additional watch-keeping responsibilities on frequencies identified for use in the FGMDSS.

As regards data concerning the three requirements specified in paragraph 5 of Document DT/20, two of these requirements are currently available in existing service documents and the third is scheduled for inclusion; these could therefore be readily included in separate sections or annexes to these documents.

Details of the three requirements appear to be the following :

- a) a list of selected coast stations and coast earth stations in pursuance of Nos. N3038 and N3038B of the Radio Regulations;
 - a list of selected coast stations in accordance with No.3038 of the RR is to be published in List IV - List of Coast Stations pursuant to Resolution No. 322 (MOB-83).
 - ii) a list of selected coast earth stations in accordance with N3038B of the RR could also be published in List IV - List of Coast Stations in conjunction with (i) above, or in accordance with No. 2202 of the RR which states "This list shall also contain an annex giving any details of maritime mobile-satellite systems". To date, only very few administrations have been reporting the required information to the Secretary-General.
- a list of coast stations and coast earth stations with which communications are likely to be conducted, showing watch-keeping hours, frequencies and charges;
 - the above coast station information is currently published in List IV - List of Coast Stations and provision is made for publishing the corresponding coast earth station information also in List IV, i.e. in accordance with RR 2202 with respect to maritime mobile-satellite systems.
- a list of coast stations which provide navigational and meteorological warnings and urgent information for ships;
 - this information is currently published in List VI List of Radiodetermination and Special Service Stations, i.e. Section 10 - Stations Transmitting Regular Meteorological Bulletins, and, Section 11 - Stations Transmitting Notices to Navigators.

If a separate service document for the GMDSS, is to be published biannually, with bi-monthly recapitulative supplements this would have to be phased in with the publication of existing service documents which to a certain degree contain or will contain identical information, i.e. List IV - List of Coast Stations and List VI - List of Radiodetermination and Special Service Stations.

However, even with a phased publication programme, the various time factors involved would result in a certain number of discrepancies between the information notified and published for the two existing service documents and the proposed new service document and their associated supplements.

The duplication of publishing information of the same kind in three different service documents with their associated supplements indicating amendments (additions, deletions, modifications) could lead to some avoidable confusion.

Preliminary cost estimates for the publication of a separate service document for the GMDSS, every two years, with bi-monthly recapitulative supplements indicate that there would be an increase in the publication's budget by approximately S.F. 260,000 per edition (this includes S.F. 185,000 for the supplements) and in the regular budget by about S.F. 150.000 per annum.

These preliminary estimates are based on a new document of approximately $145 - 150^1$ pages (containing information most of which is currently being published) and a printing of 10,000 copies. The sale price for administrations would be about S.F. 41 per copy and S.F. 52 for others.

A variation in the number of pages contained in the separate service document for the GMDSS or the number of copies printed would have an impact on the publication costs and sale price accordingly. The regular budget costs would within limits be more or less insensitive to changes in the number of pages.

If the required information were to be published as separate sections in Lists IV and VI, a preliminary analysis indicates that the increases in costs in both the publications and regular budgets would be marginal.

¹ This number is based on an estimated 30 pages for the preface and index/tables, about 45 pages for the basic information on selected stations, 30 pages for meteorological information, 30 pages for navigational information, and 10 pages for accounting charges.

Document DT/51-E 29 September 1987 Original: English

WORKING GROUP 4-A

Draft

FIFTH REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

1. In addition to the items listed in the first report (Document 147), in the third report (Document 206), and in the fourth report (Document 235), Working Group 4-A approved the modifications to Article 8 as contained in the annex to this report.

1.1 In this respect it is to be noted that several footnotes are under square brackets for several reasons:

- RR471 and RR472A, due to the fact that the final wording may depend on the decisions to be taken by Committee 5;
- the new footnote 470B and part of the modified footnote 469, since no agreement was reached;
- MOD 772, since the French wording seems inappropriate.

1.2 The attention of Committee 4 is drawn to the fact that the Delegation of Switzerland reserved its position with respect to the band 2 700 - 2 900 MHz.

2. The Working Group also considered some of the Resolutions and Recommendations, which are attributed to it.

With respect to the Resolutions and Recommendations from the Radio Regulations, the Working Group unanimously adopted the conclusions set forth in Annexes 2 and 3 and proposes that Committee 4 approve them.

The Working Group also took note of the Recommendations from the two Regional Conferences, RARC-MM-R1 and RARC-EMA.

J. KARJALAINEN Chairman of Working Group 4-A

Annexes: 3



ANNEX 1

	kHz		
415	-	1	606.

5

	Allocation to Services		
Region 1	Region 2	Region 3	
415 - 435	415 - 495		
AERONAUTICAL RADIONAVIGATION	MARITIME MOBILE 470	MARITIME MOBILE 470	
/ MARITIME MOBILE / 470	<u>Aeronautical</u> <u>Radionavigation</u> 470A	Aeronautical Radionavigation	
465			
435 - 495			
MARITIME MOBILE 470			
Aeronautical Radionavigation	[(7]] [(70)]		
465 [471] [472A]	[471] [472A] <u>469A</u> 469 [<u>470B]</u>	469 [471] [472]	

MOD 469

Additional allocation: Different category of service: In Afghanistan, Australia, China, the Overseas French Territories of Region 3, India, Japan, Pakistan and Papua New Guinea, the allocation of the band 415 - 495 kHz is also allocated to the aeronautical radionavigation service is on a permitted basis. [Administrations in these countries shall take all practical steps necessary to ensure that aeronautical radionavigation stations in the band 435 - 495 kHz do not cause interference to coast stations reception of ship stations transmitting on frequencies designated for ship stations on a world-wide basis (see No. 4327).]

ADD 469A <u>Different category of service</u>: In the United States of America the allocation of the band 415 - 435 kHz to the aeronautical radionavigation service is on a primary basis.

- 3 -MOB-87/DT/51-E

ADD 470A In Region 2, the use of the band 435 - 495 kHz by the aeronautical radionavigation service is limited to non-directional beacons not employing voice transmission.

ADD 470B Administrations shall take all practical steps necessary to ensure that aeronautical radionavigation stations in the 435 - 495 kHz band do not cause interference to coast station reception of ship stations transmitting on frequencies designated for ship stations on a world-wide basis (see No. 4237).

Allocation to Services		
Region 1	Region 2	Region 3
108 - 117.975	AERONAUTICAL RADIONAVIO	GATION
117.975 - 136	AERONAUTICAL MOBILE (R) 501 591 592 593 594	
136 - 137	AERONAUTICAL MOBILE (R) Fixed Mobile except aeronautical mobile (R) 591 595 <u>594A</u>	

MHz 108 - 138

MOD 595

Until 1 January 1990, the band 136 - 137 MHz is also allocated to the space operation service (space-to-Earth), meteorological-satellite service (space-to-Earth) and the space research service (space-to-Earth) on a primary basis. The introduction of stations of the aeronautical mobile (R) service shall only occur after that date. and shall be effected in accordance with internationally agreed plans for that service. After 1 January 1990, the band 136 - 137 MHz will also be allocated to the above-mentioned space radiocommunication services on a secondary basis (see Recommendation [404(Rev. Mob-87)]).

ADD 594A <u>Additional allocation</u>: As from 1 January 1990, in Poland and in the USSR, the band 136 - 137 MHz is also allocated to the Aeronautical Mobile (OR) Service on a permitted basis.

Allocation to Services		
Region 1	Region 2	Region 3
1 700 - 1 710	1 700 - 1 710	
FIXED	FIXED	
METEOROLOGICAL- SATELLITE (space-to-Earth)	METEOROLOGICA (space-to-Ea	
Mobile except aeronautical mobile	MOBILE except	aeronautical mobile
671 722 <u>743A</u>	671 722 743	3

MHz 1 700 - 1 710

ADD 743A Different category of service: In the Federal Republic of Germany, Denmark, Norway, the Netherlands, and the United Kingdom, in the band 1 700 - 2 450 MHz, and in Switzerland, in the band 1 700 - 2 300 MHz, and in Sweden, in the bands 1 700 - 1 710 MHz and 2 290 - 2 300 MHz, the allocation to the mobile, except aeronautical mobile, service is on a primary basis (see No. 425), subject to agreement obtained under the procedure set forth in Article 14. ç

MHz 1 710 - 2 290

Allocation to Services			
Region 1	Region 2	Region 3	
1 710 - 2 290	1 710 - 2 290		
FIXED	FIXED		
Mobile	MOBILE		
722 744 746 <u>743A</u> 747 748 750	722 744 745 747 748 749		

MHz 2 290 - 2 450

2 290 - 2 300	2 290 - 2 300
FIXED	FIXED
SPACE RESEARCH	MOBILE except aeronautical mobile
(deep space) (space-to Earth)	SPACE RESEARCH (deep space) (space-to-Earth)
Mobile except aeronautical mobile	
<u>743A</u>	
2 300 - 2 450	2 300 - 2 450
FIXED	FIXED
Amateur	MOBILE
Mobile	RADIOLOCATION
Radiolocation	Amateur
664 752 <u>743A</u>	664 751 752

;

MHz 2 700 - 3 100

	Allocation to Services			
	Region 1	Region 2	Region 3	
(NOC)	2 700 - 2 9 00	AERONAUTICAL RADIONAVIGA	ATION 717	
		Radiolocation		
		770 771		1
	2 900 - 3 100	RADIONAVIGATION 773 -7-7	74 775 <u>775A</u>	
		Radiolocation		
		772		

SUP 774-775

MOD 772 In the bands 2 900 - 3 100 MHz, 5 - 470 - 5 - 650 MHz and 9 - 200 - 9 - 300 MHz, the use of the shipborne transponder system SIT shall be confined to the sub-bands 2 930 - 2 950 MHz, 5 - 470 - 5 - 480 MHz and 9 - 280 - 9 - 300 MHz.

ADD 775A In bands 2 900 - 3 100 MHz and 9 300 - 9 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service; noting, however, the provision No. 347 of these Regulations.

3 100 - 3 300

3 100 - 3 300	RADIOLOCATION	
	713 776 777 778	

SUP 776

MHz 5 470 - 5 650

Allocation to Services		
Region 1	Region 2	Region 3
5 470 - 5 650	MARITIME RADIONAVIGATION	772-
	Radiolocation	
	800 801 802	

8 850 - 9 300

9 200 - 9 300	RADIOLOCATION		
	MARITIME RADIONAVIGATION 772	823	<u>823A</u>
	824		

ADD 823A In the band 9 200 - 9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate CCIR Recommendation.

9 300 - 10 000

	9 300 - 9 500	RADIONAVIGATION 774 775 <u>775A</u> <u>823A</u> Radiolocation 825 <u>825A</u>
(NOC)	9 500 - 9 800	RADIOLOCATION RADIONAVIGATION 713

ADD 825A In the band 9 300 - 9 320 MHz in the radionavigation service, the use of shipborne radars, other than those existing on 1 January 1976, is not permitted until 1 January 2001. - 8 -MOB-87/DT/51-E

ANNEX 2

- 1. <u>Resolutions</u>
- 1.1 Resolution No. 38: MOD (see Annex 3) 1.2 Resolution No. 204 (Mob-83): SUP 1.3 Resolution No. 304: SUP 1.4 Resolution No. 306: SUP 1.5 Resolution No. 307: SUP 1.6 Resolution No. 401: SUP 1.7 Resolution No. 402: SUP 2. Recommendations 2.1 Recommendation No. 203: SUP 2.2 Recommendation No. 300: SUP 2.3 Recommendation No. 301: SUP 2.4 Recommendation No. 307: SUP 2.5 Recommendation No. 400: SUP 2.6 Recommendation No. 406: NOC 2.7 Recommendation No. 601: NOC

- 9 -MOB-87/DT/51-E

ANNEX 3

RESOLUTION No. 38 (Rev.Mob-87)

Relating to the Reassignment of Frequencies of Stations in the Fixed and Mobile Services in the Bands Allocated to the Radiolocation and Amateur Services in Region 1^1

> (1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170)

The World Administrative Radio Conference <u>for the Mobile Services</u>, Geneva, 1987,

considering

that the <u>World Administrative Radio</u> Conference, <u>Geneva, 1979</u>, has adopted modifications to the allocation of the frequency bands between 1 606.5 kHz and 2 850 kHz;

noting

a) that the implementation of the revised Table of Frequency Allocations presents difficulties in particular for stations in the maritime mobile service in Region 1 in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz which are being made available for radiolocation services and in the band 1 810 - 1 850 kHz which is being made available to the amateur service;

b) that replacement frequencies for stations of the maritime mobile service shall be <u>have been</u> provided in the frequency assignment plan mentioned above, together with the arrangements for their implementation;

¹ Replaces Resolution No. 38 of the WARC, Geneva, 1979.

resolves

1. that in Region 1, except for the countries and frequency bands mentioned $\frac{12}{2}$ in Nos. 485, 490, 491, 493 and 499, on the date of implementation (1 April 1992) of a the frequency assignment plan for the maritime mobile service to be contained in the final acts Final Acts of the competent conference Regional Administrative Radio Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), Geneva, 1985, all operations of stations of the fixed and mobile services shall be terminated in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz;

3.2. that administrations having assignments to stations of the fixed, land mobile or aeronautical mobile (OR) services in the bands concerned shall choose and notify to the IFRB appropriate replacement assignments; and where the finding of the Board is favourable with respect to Nos. 1240 and 1241, each such replacement assignment shall have the same date and status as that which it replaced. as far as the assignments of the countries in Region 1 are concerned;

4.3. that the protection afforded to stations of the fixed and mobile services by Nos. 486 and 492 shall continue to apply until such time as satisfactory replacement assignments have been found and implemented in accordance with this Resolution;

5.4. that, after the date of implementation (1 April 1992) of the frequency assignment plan for the maritime mobile service contained in the final acts Final Acts of the competent conference Regional Administrative Radio Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), Geneva, 1985, the continued use of frequency assignments that have not been transferred in accordance with resolves 3 shall be only on the basis of No. 342.

 No. 485, bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz; No. 490, band 1 810 - 1 830 kHz; No. 491, band 1 810 - 1 830 kHz; No. 493, band 1 810 - 1 850 kHz; No. 499, band 2 160 - 2 170 kHz.

INTERNATIONAL TELECOMMUNICATION UNION **NOB-87** INTERNATIONAL TELECOMMONILE SERVICES GENEVA, September-October 1987

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Document DT/52-E 29 September 1987 Original: English

Source: Documents 252, 24

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

SIXTH REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary considered the proposals for new Resolutions and agreed upon the draft texts contained in Annexes 1, 2 and 3 to this document.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annexes: 3

ANNEX 1

[DRAFT] RESOLUTION [GT-TEC PLEN/1]

Data Transmission from Maritime Radiobeacons for Differential Navigation Systems

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that RR 466 provides for the transmission of supplementary navigational information using narrow-band techniques, on condition that the prime function of the beacon is not significantly degraded;

b) that the International Maritime Organization (IMO) has identified a need for data exchange between shore and ship in the case of radionavigation systems (e.g. Omega, GPS, Loran-C) operating in the differential mode;

c) that Resolution No. 3 (EMA) invited this Conference to consider the aspects of using maritime radiobeacons to transmit data to ships using either minimum shift keying (MSK) or frequency shift keying (FSK) techniques, and to choose between the two techniques;

d) that CCIR studies have shown that for the transmission of continuous data it is necessary to use a second carrier offset from the main carrier by 300 Hz or more to prevent interference to certain types of automatic radio direction finders, regardless of whether MSK or FSK modulation is chosen;

e) that these same studies have shown that MSK modulation has advantages over FSK modulation because of improved spectral efficiency;

f) that the Regional Administrative Conference for the planning of the maritime radionavigation service (radiobeacons) in the European Maritime Area (Geneva, 1985) decided that radiobeacons in that area should be channelled in multiples of 500 Hz;

g) that if FSK or MSK modulation with an offset of 300 Hz or more is encoded onto a radiobeacon signal in the European Maritime Area, then the digital modulation signal will be partially contained in the channel adjacent to the radiobeacon channel particularly in the case of high speed data;

that many administrations prefer the use of MSK modulation;

h)

i) that the satellite system data corrections have to be transmitted on a continuous basis;

resolves

1. that the frequency for the transmission of continuous data to ships using FSK or MSK modulation on maritime radiobeacons should be offset from the radiobeacon main carrier frequency an amount sufficient to ensure that no harmful interference is caused to automatic radio direction finders;

2. that the CCIR continues studying the technical factors, including a standard coding format, modulation method, necessary bandwidth, protection ratios and frequency offsets, such that the prime function of the radiobeacon is not significantly degraded, and make Recommendations;

3. that channelling plans for maritime radiobeacons should accommodate the transmission of data to ships using frequency offset techniques;

invites the IFRB

to consider this Resolution in preparing its technical standards and rules of procedure;

invites

the Members of the Union in the European Maritime Area to consider convening a competent regional administrative radio conference concerning a possible revision of the Regional Agreement (Geneva, 1985) for the purpose of accommodating continuous data transmission using frequency offset techniques. - 4 -MOB-87/DT/52-E

ANNEX 2

USA/24/793 ADD

[DRAFT] RESOLUTION [GT-TEC PLEN/2]

Relating to the Mutual Protection of Radio Services Operating in the Band 70 - 130 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that various radio services, including radionavigation systems used by maritime and aeronautical services, operate in frequency bands between 70 and 130 kHz;

b) that radionavigation being a safety service, all practical means consistent with the Radio Regulations should be taken to prevent harmful interference to any radionavigation system;

c) that the CCIR noted that users of phased pulse radionavigation systems in the band 90 - 110 kHz receive no protection outside the band, yet may receive benefit from their signals outside the occupied bandwidth;

noting

that CCIR studies show:

- that for CW radionavigation systems in the frequency bands 70 - 90 kHz and 110 - 130 kHz, the protection ratio should be 15 dB within the receiver passband of <u>+</u>7 Hz at 3 dB;
- that phased pulse radionavigation systems require a 15 dB protection ratio within the band 90 110 kHz;
- that these pulse radionavigation systems would be aided by protection ratios of 5 dB and 0 dB for frequency separations between wanted and interfering signal of 10 to 15 kHz and 15 - 20 kHz, respectively;

further noting

that CCIR recommended information be exchanged between authorities operating radionavigation systems in the band 90 - 110 kHz with those operating other systems in the band 70 - 130 kHz employing stable emissions of very high stability;

recognizing

a) that radio services other than radionavigation occupying the bands 70 - 90 kHz and 110 - 130 kHz serve critically necessary functions that may be impacted;

b) the provisions of RR Nos. 343, 451, 453 and 953;

resolves that administrations

1. in assigning frequencies to services in the bands 70 - 90 kHz, 90 - 110 kHz and 110 - 130 kHz, consider the potential mutual degradation to other stations operating in accordance with the Table of Frequency Allocations apply protective measures;

2. use relevant CCIR Recommendations in ensuring that information is exchanged between authorities operating radionavigation systems in the band 90 - 110 kHz with those operating other systems in the band 70 - 130 kHz employing emissions of very high stability, to assist in preventing potential interference problems;

3. encourage consultation, both nationally and internationally, between operators of radionavigation systems using the band 90 - 110 kHz and other systems using the band 70 - 130 kHz;

requests the CCIR

to continue studies in this matter, particularly the development of technical criteria and standards to permit the conducting of compatible operations within the allocated bands and to assist in the developing of the list of contacts of system operators;

invites

1. the Administrative Council to place this matter on the agenda of the next competent world administrative radio conference, in order to establish technical criteria for the [sharing] [harmonious operation] of the services in the bands between 70 - 130 kHz;

2. the International Maritime Organization (IMO), the International Civil Aviation Organization (ICAO), the International Association of Lighthouse Authorities (IALA), the Bureau international de l'heure (BIH) and national authorities to communicate with the Union on the potential degradation of systems operating in the bands 70 - 90 kHz, 90 - 110 kHz and 110 - 130 kHz, together with their views and proposals resulting therefrom.

- 6 -MOB-87/DT/52-E

ANNEX 3

USA/24/794 ADD

[DRAFT] RESOLUTION [GT-TEC PLEN/3]

Operation of Fixed and Maritime Mobile Services in the Band 90 - 110 kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) the need to protect phased pulse hyperbolic radionavigation systems (Loran) operating in the band 90 - 110 kHz used as a safety service for both maritime and aeronautical services;

b) the studies made by the CCIR in this band;

c) that harmful interference affecting safety of flight and ship navigation can occur to this service from the operation of fixed and maritime mobile services as a secondary allocation in this band;

d) that not withstanding RR 448A this Conference removed the allocation for the maritime mobile service from this band;

noting

that this Conference is not competent to affect significantly the allocation of the fixed service;

resolves

that the next competent conference review the fixed service allocation as well as the maritime mobile service allocation according to RR 448A in this band with a view towards their deletion;

invites

the Administrative Council to place this matter on the agenda of the next competent world administrative radio conference.

NOB-87 INTERNATIONAL TELECOMMENT WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

Document DT/53-E 29 September 1987 Original: English

COMMITTEE 6

PROPOSAL FROM THE CHAIRMAN OF COMMITTEE 6

ARTICLE 43

- NOC Title
- NOC 3364
- NOC 3365
- MOD 3366 § 3. Except as otherwise provided for in these Regulations the person responsible, as well as all the persons who may have knowledge [of the text or even of the existence of a radiotelegram, or] of any information whatever obtained by means of the radiocommunication service, are placed under the obligation of observing and ensuring the secrecy of correspondence.
- ADD 3367 The provisions of Nos. 3364, 3365 and 3366 shall also §4. apply to personnel of aircraft earth stations.
- MOD 3368 Not allocated. to

3391

I.R. HUTCHINGS Chairman of Committee 6

WORKING GROUP 5 AD HOC 1

Draft

THIRD REPORT OF WORKING GROUP 5 AD HOC 1 TO COMMITTEE 5

1. At its fourth meeting the Working Group agreed upon the following:

SUP Recommendation No. 201(Rev.Mob-83)

(It was agreed that some essential elements be incorporated into Resolution No. [COM5/1].)

SUP Recommendation No. 204(Rev.Mob-83)

NOC Recommendation No. 306

SUP Recommendation No. 311

SUP Recommendation No. 713 (Mob-83)

2. It was agreed that Recommendation No. 317 (Mob-83) should be modified as in Annex 1.

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.

R.C. McINTYRE Chairman

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ANNEX 1

RECOMMENDATION No. 317 (MOB-83)

Relating to the Use of a Priority Indicator Signal for Alerting Ships to Send Overdue Position Reports and for Other Ships to Report Sightings

The World Administrative Radio Conference for the Mobile Services, Geneva, 1983,

considering

a) that the International Convention on Maritime Search and Rescue, 1979, provides for the establishment of ship reporting systems by States for the search and rescue regions for which they are responsible;

b) that verification of the safety of vessels, which have failed to report, is required;

c) that some administrations have already established such ship reporting systems;

d) that standard procedures need to be adopted;

recommends

1. that a priority indicator signal with the following meaning be adopted:

"A position report to the ship reporting system of (name of administration) was expected from the vessel indicated by the call sign (...) but has not been received. This vessel or any vessel or shore station that has been in communication with, or sighted this vessel should immediately communicate with the station which has sent this signal";

2. that a suitable signal for this purpose would be the alphabetic characters "JJJ" in the Morse Code for radiotelegraphy and the spoken words "REPORT IMMEDIATE" for radiotelephony;

3. that the name and call sign of the vessel would be broadcast with ships' traffic lists or in marine safety information broadcasts, followed by the above signal when an expected position report is overdue for a period specified by administrations;

invites administrations

to consider this matter and submit proposals to the next competent conference for the implementation of this signal taking into account the views of the International Maritime Organization (IMO);

requests the Secretary-General

to communicate this Recommendation to the IMO for consideration.

NOB-87 INTERNATIONAL TELECOMMUTATION. WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

Document DT/55-E 30 September 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

SEVENTH REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary has adopted the draft Resolution appearing in the annex.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

- 2 -MOB-87/DT/55-E

ANNEX

[DRAFT] RESOLUTION No. [GT-TEC PLEN/4]

Relating to the Compatibility of Equipment Used in the Mobile-Satellite Service

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that there is only a limited number of frequency bands allocated to the mobile-satellite service;

b) that the CCIR is studying the possible need for maritime, aeronautical and land mobile-satellite systems to use common frequency bands of the mobile-satellite service;

c) the need for an efficient use of the bands allocated to the mobile-satellite service;

resolves

1. that the CCIR continue to study as a matter of urgency common terminal characteristics to the extent practicable to provide compatibility between the land, maritime, and aeronautical mobile-satellite services;

2. that administrations should encourage development and manufacture of compatible mobile-satellite user equipment.



Document DT/56-E 30 September 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

EIGHTH REPORT OF THE TECHNICAL WORKING GROUP OF THE PLENARY

The Technical Working Group of the Plenary has adopted the revision of Appendix 19 to the Radio Regulations appearing in the annex.

Proposals USA/24/719 and USA/24/720 are still pending subject to advice needed from Committee 6 (see Document 260, paragraph 6).

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Annex: 1

ANNEX

APPENDIX 19 (MOB-87)

Technical Characteristics for Transmitters and Receivers Used in the Maritime Mobile Service in the Band 156 - 174 MHz

(see Articles 59, 60 and Appendix 18)

1. Only frequency modulation with a pre-emphasis of 6 dB/octave (phase modulation) shall be used.

2. The frequency deviation corresponding to 100% modulation shall approach +5 kHz as nearly as practicable. In no event shall the frequency deviation exceed +5 kHz.

3. The frequency tolerance for coast and ship stations shall be 10 parts in 10^6 .

4. When transmitting on any of the frequencies designated in the table in Appendix 18, the emission of each station shall be vertically polarized at the source.

5. The audio-frequency band shall be limited to 3 000 Hz.

6. It shall be possible to reduce, readily, the mean power of a ship station transmitter to 1 W or less, except for digital selective calling equipment operating on 156.525 MHz (channel 70), where this facility may be provided.

7. Stations using digital selective calling shall incorporate the following capabilities:

- a) sensing to determine the presence of a signal on 156,525 MHz (channel 70) and
- b) automatic prevention of the transmission of a call, except for distress and safety calls, when the channel is occupied.

8. The remaining characteristics of transmitters and receivers used for digital selective calling shall comply with relevant CCIR Recommendations.

9. Coast station transmitters shall be fitted with equipment providing a mean power attenuation of at least 10 dB when they emit marking signals (see Nos. 4326A and 4910).

MOD



Document DT/57-E 30 September 1987 Original: English

WORKING GROUP 5 AD HOC 1

Draft

FOURTH REPORT OF WORKING GROUP 5 AD HOC 1 TO COMMITTEE 5

At its fifth meeting the Working Group approved [in principle] the texts of the two new draft Resolutions in Annexes 1 and 2.

> R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

Annexes: 2

ANNEX 1

DRAFT RESOLUTION No. [COM5/4]

Relating to a Dedicated HF Marine Mobile Channel for the Broadcast of NAVTEX Data on a 4 MHz Frequency

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that generally low antenna efficiencies and high atmospheric noise levels in the 500 kHz band, mainly in the tropical and sub-tropical regions of the world, will limit the range at which NAVTEX signals transmitted on 518 kHz can be received in these areas;

b) that in the 4 MHz band coast station antenna efficiencies are much higher than those at 518 kHz and that atmospheric noise levels in the tropical and sub-tropical regions of the world are significantly lower in the 4 MHz band than at 518 kHz;

c) that a non-paired narrow-band direct-printing channel in the 4 MHz maritime mobile band is needed to provide broadcasts of such information in a predominantly ground wave mode;

noting

a) that NAVTEX data includes navigational and meteorological warnings and urgent information to ships;

b) that IMO has agreed that a need exists to transmit NAVTEX data on a 4 MHz NBDP channel;

recognizing

a) that an exclusive channel for this purpose has been allocated by this Conference;

b) that the IMO, WMO (World Meteorological Organization) and the IHO are the appropriate organizations to coordinate a plan for the global use of the HF narrow-band direct-printing marine NAVTEX data channel;

resolves to invite the IMO, WMO and IHO

1. to develop jointly, in consultation with the IFRB, a plan for the global coordinated use of the HF narrow-band direct-printing marine NAVTEX data channel;

2. to assume jointly the responsibility, in consultation with the IFRB, for maintaining the plan;

urges administrations

which need to use this channel to assign the frequency in conformance with the plan and the Recommendations of the IMO, WMO and IHO for the portion of the system over which they hold jurisdiction;

invites the Administrative Council

to place this Resolution on the agenda of the next competent world administrative radio conference;

requests the CCIR

to develop the technical characteristics to allow these broadcasts to be received using automated techniques;

requests the Secretary-General

to communicate this Resolution to the IMO, IHO and WMO.

ANNEX 2

RESOLUTION No. [COM5/5]

Dedicated HF Maritime Mobile Channels for Broadcast of High Seas Marine Safety Information

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the International Maritime Organization (IMO) has reaffirmed the need for long range navigational and meteorological warnings to all ships on all voyages;

b) that operational limitations prevent NAVTEX or satellites from totally fulfilling this requirement;

c) that non-paired narrow-band direct printing channels in the HF maritime mobile (Appendix 31) bands are needed to provide broadcasts of such information;

d) that international channels for this purpose have been identified by this Conference in modifications to Appendix 31;

e) that due to HF propagation characteristics world-wide coordination of broadcasts to prevent interference is required;

noting

a) that the IMO and the International Hydrographic Organization (IHO) in the development of the World-Wide Navigational Warning Service have identified sixteen Navigational Areas (NAVAREAs), each under the jurisdiction of an area coordinator, for the promulgation of marine safety information;

b) that as marine safety information includes meteorological messages, as well as navigational messages, the World Meteorological Organization (WMO) also has an interest in this matter;

recognizing

that the IMO, WMO and the IHO are the appropriate organizations to coordinate the operational aspects of the broadcast of marine safety information;

resolves that the IMO, WMO and the IHO be invited:

1. to develop jointly, in consultation with the IFRB, a plan for the global coordinated use for the broadcast of high seas marine safety information using narrow-band direct-printing techniques;

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2. to assume jointly the responsibility, in consultation with the IFRB, for maintaining the plan;

urges administrations

to effect appropriate operational coordination with the IMO, IHO and WMO in accordance with this plan;

requests the CCIR

to develop the technical characteristics to allow these broadcasts to be received using automated techniques;

invites the Administrative Council

to place this Resolution on the agenda of the next competent world administrative radio conference;

requests the Secretary-General

to communicate this Resolution to IMO, IHO and WMO for consideration and comments.



INTERNATIONAL TELECOMMUNICATION UNION **NICR BR7** WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987 Document DT/58-E 1 October 1987 Original: English

WORKING GROUP 5-A

DRAFT FOURTH AND FINAL REPORT OF WORKING GROUP 5-A TO COMMITTEE 5

In its tenth, eleventh, twelfth [and thirteenth] meetings, Working Group 5-A 1. completed its consideration of Chapter N IX (Articles N 40 and N 41) and adopted the texts in the annex.

2. In considering Document 223 relating to N 3220A, the provision was placed in square brackets and the matter is referred to Committee 5. It should be noted that strong objections were expressed on this document by three delegations.

> M. HAMMERSCHMIDT Chairman of Working Group 5-A

Annex: 1

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ANNEX

ARTICLE N 40

Operational Procedures for Urgency and Safety Communications <u>in the GMDSS</u>

Section I. General

DT/1B	ADD N 3195NA	Urgency and safety communications include:
		 a) navigational and meteorological warnings and urgent information;
		b) ship-to-ship safety <u>of navigation</u> communications;
		c) ship reporting communications;
		d) support communications for search and rescue operations;
		e) other urgency and safety messages; and

- f) communications relating to the navigation, movements and needs of ships and weather observation messages destined for an official meteorological service.
- Section II. Urgency communications

CEPT-8/15/262

ADD N 3195P In a terrestrial system the announcement of the urgency message shall be made on one or more of the distress and safety calling frequencies specified in Section I of Article N 38 using digital selective calling techniques and the urgency call format. If the urgency message is to be transmitted <u>through</u> the maritime mobile-satellite service a separate announcement will not be made.

CEPT-8/15/263

ADD N 3195Q The urgency signal and message shall be transmitted on one or more of the distress and safety traffic frequencies specified in Section I of Article N 38 <u>through</u> the maritime mobile-satellite service or on other frequencies used for this purpose.

CEPT-8/15/264

ADD N 3195R

The urgency signal consists of the words PAN PAN. In radiotelephony each word of the group shall be pronounced as the French word "panne".

CEPT-8/15/265

ADD N 3195S The urgency call format and the urgency signal indicate that the calling station has a very urgent message to transmit concerning the safety of a mobile unit or person.

DT/1B

- ADD N 3195T In radiotelephony, the urgency message will be preceded by the urgency signal (see N 3195R), repeated three times, and the identification of the transmitting station.
- ADD N 3195U In narrow-band direct-printing, the urgency message will be preceded by the urgency signal (see N 3195R) and the identification of the transmitting station.
- ADD N 3195X The urgency call format or urgency signal shall be sent only on the authority of the master or the person responsible for the mobile unit carrying the mobile station or mobile earth station.
- ADD N 3195XA The urgency call format or the urgency signal may be transmitted by a land station or a coast earth station with the approval of the responsible authority.
- ADD N 3195XB When an urgency message, which calls for action by the stations receiving the message, has been transmitted, the station responsible for its transmission shall cancel it as soon as it knows that action is no longer necessary.

ADD

Section III. Medical Transports

CEPT-8/15/272 ADD N 3209

The term "medical transports", as defined in the 1949 Geneva Conventions and Additional Protocols, refers to any means of transportation by land, water or air, whether military or civilian, permanent or temporary, assigned exclusively to medical transportation and under the control of a competent authority of party to a conflict or of neutral States and of other States not parties to an armed conflict, when these ships, craft and aircraf assist the wounded, the sick and the shipwrecked.

CEPT-8/15/273 ADD N 3210

For the purpose of announcing and identifying medical transports which are protected under the above-mentioned Conventions, the procedure of Section II of this Article is used. The urgency signal shall be followed by the addition of the single word MEDICAL in narrow-band direct-printing and by the addition of the single word MAY-DEE-CAL pronounced as in French "médical", in radiotelephony. - 4 -MOB-87/DT/58-E

CEPT-8/15/274 ADD N 3212 The use of the signals described in N 3210 indicates that the message which follows concerns a protected medical transport. The message shall convey the following data: CEPT-8/15/275 ADD N 3213 a) the call sign or other recognized means of identification of the medical transport; CEPT-8/15/276 ADD N 3214 b) position of the medical transport; CEPT-8/15/277 ADD N 3215 number and type of medical transport; c) CEPT-8/15/278 ADD N 3216 d) intended route; CEPT-8/15/279 estimated time en route and of departure and ADD N 3217 e) arrival, as appropriate; CEPT-8/15/280 ADD N 3218 f) any other information, such as flight altitude, radio frequencies guarded, languages used and secondary surveillance radar modes and codes. CEPT-8/15/281 ADD N 3219A The identification and location of medical transports at sea may be effected by means of appropriate standard maritime radar transponders. CEPT-8/15/282 The identification and location of aircraft medical ADD N 3219B transports may be effected by the use of the secondary surveillance radar (SSR) system specified in Annex 10 to the Convention on International Civil Aviation. CEPT-8/15/283 ADD N 3220 The use of radiocommunications for announcing and identifying medical transports is optional; however, if they are used, the provisions of these Regulations and particularly of this section and of Articles N 37 and N 38 shall apply. */223/2 ADD N 3220A § N 12A. The present dispositions regarding medical transports apply also by analogy to rescue craft, defined in Article 27 of the Second Geneva Convention, which may use the prefix "RESCUE CRAFT" in radiotelephony and "ZZZ" for the radar transponder if so equipped.

* DNK, E, FNL, G, HOL, NOR, S, SUI

- 5 -MOB-87/DT/58-E

Section IV. Safety Communications

(N 3195Z) CEPT-8/15/285 ADD N 3230

ADD

In a terrestrial system the announcement of the safety message shall be made on one or more of the distress and safety calling frequencies specified in Section I of Article N 38 using digital selective calling techniques. If the message is to be transmitted <u>through</u> the maritime mobile-satellite service a separate announcement will not be made.

(3195AC) CEPT-8/15/286 ADD N 3231

The safety <u>signal and message</u> shall normally be transmitted on one or more of the distress and safety traffic frequencies specified in Section I of Article N 38 or <u>through</u> the maritime mobile-satellite service or on other frequencies used for this purpose.

(3195AA) CEPT-8/15/287 ADD N 3232

The safety signal consists of the word SECURITÉ In radiotelephony it shall be pronounced as in French.

(3195AB) CEPT-8/15/288 ADD N 3233

ADD

The safety call format or the safety signal indicates that the calling station has an important navigational or meteorological warning to transmit.

DT/1B

ADD N 3195AD In radiotelephony, the safety message will be preceded by the safety signal (see N 3195AA [<u>N 3232</u>]), repeated three times and the identification of the transmitting station.

ADD N 3195AE In narrow-band direct-printing, the safety message will be preceded by the safety signal (see N 3195AA [<u>N 3232</u>]), and the identification of the transmitting station.

> Section V. Automated Direct-Printing Telegraphy Systems for the Promulgation of Marine Safety Information

ADD A. Narrow-Band Direct-Printing Telegraphy System for the Promulgation of Marine Safety Information to Ships (NAVTEX)

ADD N 3195AF Marine safety information shall be transmitted by means of narrow-band direct-printing telegraphy, in the international NAVTEX system using the frequency 518 kHz with forward error correction and using the English language. - 6 -MOB-87/DT/58-E

- ADD N 3195AFA Marine safety information shall be transmitted by means of narrow-band direct-printing telegraphy in areas of the world not covered by the international NAVTEX system but for that purpose using the frequency 4 XXX kHz with forward error correction and using the English language.
- ADD N 3195AFB Marine safety information may be transmitted by means of narrow-band direct-printing telegraphy at the discretion of administrations for national services using the frequency 490 kHz with forward error correction.
- ADD N 3195AFC The marine safety information referred to in Nos. N 3195AF, N 3195AFA and N 3195AFB shall be transmitted by selected coast stations and their operational details shall be indicated in the List of Radiodetermination and Special Service Stations (see Nos. 3323, 3326 and 3334).
- ADD N 3195AFD The mode and format of transmission should be in accordance with relevant CCIR Recommendations.
- ADD B. Narrow-Band Direct-Printing Telegraphy Systems for the Promulgation of Marine Safety Information in the World-Wide Navigational Warning Service (WWNWS)
- ADD N 3195AFE In the WWNWS marine safety information shall be transmitted either:
- ADD N 3195AFF a) by means of narrow-band direct-printing telegraphy using the frequencies 4 YYY, 6 YYY, 8 YYY, 12 YYY, 16 YYY, 18 YYY, 22 YYY and 26 YYY kHz with forward error correction, transmitted by selected coast stations (see No. N 3195AFC) [and using the English language].

The mode and format of transmission should be in accordance with relevant CCIR Recommendations; or/and

ADD N 3195AFG

 b) by means of narrow-band direct-printing telegraphy through selected coast earth stations (see No. 3195AFC) in the maritime mobile-satellite service with forward error correction [and using the English language].

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DT/1B ADD	Section VI. <u>Intership</u> Navigation Safety Communications
ADD	N 3195AI <u>Intership</u> navigation safety communications are those VHF radiotelephone communications conducted between ships for the purpose of ensuring the safety of movement of ships relative to one another.
ADD.	N 3195AJ The frequency 156.650 MHz is used for <u>intership</u> navigation safety communications (see also No. N 2993D and note <u>n</u>) of Appendix 18).
	STILL TO BE CONSIDERED IN WORKING GROUP 5-A
ADD	Section VII. General Radiocommunications for Distress and Safety
ADD	N 3195AK General radiocommunications for distress and safety are those between mobile stations and <u>between mobile stations and</u> <u>land</u> -based communication networks using non-distress and safety channels in support of distress incident operations.
ADD	N 3195AL General radiocommunications for distress and safety purposes may be conducted on any appropriate communications <u>frequency</u> , including those used for public correspondence. In the maritime mobile-satellite service, <u>frequencies</u> in the bands 1 530 to 1 544 MHz and 1 626.5 to 1 645.5 MHz are used for this function and, for distress <u>alerting</u> purposes, these channels are used with absolute priority.
AUS/40/472 ADD	Section VIII. Narrow-Band Direct-Printing Telegraphy System for Ship Transmissions in the HF Band of Position Reports and Meteorological Observations
AUS/40/473 ADD	N 3195ALA Ship position reports and meteorological observations are transmitted by maritime mobile stations to land-based communication networks using non-distress and safety channels to provide safety related information.
AUS/40/474 ADD	N3195ALB When using the HF band in the maritime mobile service, the frequencies 4 AAA, 6 AAA, 8 AAA, 12 AAA and 16 AAA kHz shall be used for the automatic narrow-band direct-printing telegraphy system, preferably operating in the forward error correcting mode, for transmission by ships of position reports and meteorological observations, to coast stations.

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DT/1B

_ 8 _ MOB-87/DT/58-E

DT/1B		ADTICLE N 61
	ADD	ARTICLE N 41
	ADD	Alerting Signals
	ADD	Section I. Emergency Position-Indicating Radiobeacon <u>(EPIRB)</u> Signals
	ADD	N 3195AM The emergency position-indicating radiobeacon signal transmitted on 156.625 MHz, and satellite EPIRB in the band 406 - 406.1 MHz or 1 645.5 - 1 646.5 MHz shall be in accordance with relevant CCIR Recommendations.
	ADD	Section II. Digital Selective Calling
	ADD	N 3195A0 The characteristics of the "distress call" (see No. N 3172) in the digital selective calling system shall be in accordance with relevant CCIR Recommendations.

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INTERNATIONAL TELECOMMUNICATION UNION

WOB-87 WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/59-E 1 October 1987 Original: English

TECHNIAL WORKING GROUP OF THE PLENARY

(MOD) RECOMMENDATION No. 604 (Rev.Mob-87)

Relating to the Future Use and Characteristics of (MOD) Emergency Position-Indicating Radiobeacons¹

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987.

- NOC considering
- that the essential purpose of the emergency position-indicating MOD a) radiobeacon (EPIRB) signals is to facilitate determining the position of survivors in search and rescue operations;
- that requirements for carriage of EPIRBs operating on the MOD b) frequencies 121.5 and 243 MHz have been included in the 1983 Amendments to the International Convention for the Safety of Life at Sea, 1974;
- NOC that requirements for carriage of EPIRBs are included in the c) International Convention for the Safety of Fishing Vessels, Torremolinos, 1977;
- (MOD) d) that the International Maritime Organization (IMO) is considering various types of EPIRBs for the use in the global maritime distress and safety system (GMDSS), and that these EPIRBs will be an integral part of the system;
- NOC e) that the IMO has stressed in its Resolution A.279 (VIII) the urgent need for unification of the characteristics of EPIRBs;

ADD

For the purpose of this Recommendation, references to EPIRBs include references to satellite EPIRBs as appropriate.

recognizing

- MOD a) that there are provisions in the Radio Regulations for EPIRBs on the frequencies 2 182 kHz, 121.5 MHz, 243 MHz, and in the bands 406 - 406.1 MHz and 1 645.5 - 1 646.5 MHz;
- SUP b)
- (MOD) c): renumber b)
- ADD c) that for EPIRBs operating on 121.5 and 243 MHz, there is a need to improve their function of being detected and located by satellite systems;

recommends

NOC 1. that, in view of their mutual interest in this matter, IMO and the International Civil Aviation Organization (ICAO) be invited, as a matter of urgency, to review and align their concepts for EPIRBs in regard to search and rescue operations and the safety of life at sea;

2. that the CCIR continue to study technical and operating questions for EPIRBs, in consideration of concepts stated by the IMO and ICAO;

ADD 3. that the CCIR and ICAO study, as a matter of urgency, the technical and operational questions arising from paragraph d) to Appendix 37A.

NOC requests the Secretary General

to communicate this Recommendation to the IMO and ICAO.

E. GEORGE Chairman of the Technical Working Group of the Plenary **NOB-87** INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/60-E 2 October 1987 Original: English

Source: Documents 271, 282

WORKING GROUP 4-A

Draft

SIXTH REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

1. In addition to the items already reported in the previous reports, Working Group 4-A took the following decisions:

1.1 SUP Resolution No. 600;

1.2 SUP Recommendation No. 404;

1.3 SUP Recommendation No. 600.

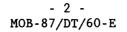
2. The Working Group also approved a new Resolution COM4/1 which is to be found in the annex to this report.

In this connection, the attention of Committee 4 is drawn to the fact that this new Resolution should be referred to in MOD RR595 (which was approved by Committee 4 at its seventh meeting on 2 October 1987, Document 281 refers).

3. All these decisions were approved unanimously.

J. KARJALAINEN Chairman of Working Group 4-A

Annex: 1



ANNEX

RESOLUTION No. [COM4/1]

Relating to the Use of the Band 136 - 137 MHz

The World Administrative Radio Conference for Mobile Services, Geneva, 1987,

noting

a) the provisions of No. 595 concerning the future use of the band 136 - 137 MHz by the aeronautical mobile (R) service commencing on 1 January 1990;

b) that frequencies allocated to the aeronautical mobile (R) service are reserved for communications related to safety and regularity of flight and therefore require special measures to ensure freedom from harmful interference;

considering

a) that the Table of Frequency Allocations includes allocations to the aeronautical mobile (R) service on a primary basis, to the aeronautical mobile (OR) service in some countries (No. 594A) on a permitted basis and to the fixed and mobile, except aeronautical mobile (R) services on a secondary basis, in the band 136 - 137 MHz;

b) that under No. 595 provision is also made for allocation to the space operation service (space-to-Earth), the meteorologicalsatellite service (space-to-Earth) and the space research service (space-to-Earth) on a primary basis up to 1 January 1990, and thereafter on a secondary basis, and that the aeronautical mobile (R) service can be introduced on a primary basis only after 1 January 1990;

c) that on that date the aeronautical mobile (R) service may be subject to interference harmful to the safety of air navigation and that it is therefore necessary to protect this service from harmful interference that might be caused by stations in the fixed service, the mobile except aeronautical mobile (R) service, the space research service (space-to-Earth), the space operation service (space-to-Earth) and the meteorological-satellite service (space-to-Earth);

resolves

1. that administrations operating or intending to operate, stations in the fixed service, the mobile except aeronautical mobile (R) service, the space research service (space-to-Earth), the space operation service (space-to-Earth) and the meteorological-satellite service (space-to-Earth) in the band 136 - 137 MHz from 1 January 1990, take all necessary steps to protect the aeronautical mobile (R) service;

2. to request administrations to refrain from authorizing new assignments, as from 1 January 1990, to the services to which the band 136 - 137 MHz is allocated on a secondary basis.

recommends

1. that administrations cease operation of stations of the other services to which the band is allocated on a secondary basis as and when the stations of the aeronautical mobile (R) service come into operation;

2. that a future competent world administrative radio conference consider the deletion of all secondary allocations from the band 136 - 137 MHz;

invites the Administrative Council

to place this matter on the agenda of the next competent world administrative radio conference.

WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

INTERNATIONAL TELECOMMUNICATION UNION

Document DT/61-E 2 October 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

NOTE FROM THE CHAIRMAN OF THE TECHNICAL WORKING GROUP OF THE PLENARY TO THE CHAIRMAN OF COMMITTEE 5

In response to the request to the Technical Working Group of the Plenary (Document 256) the Working Group offers the following advice:

1. Possible sub-division of the band 1 544 - 1 545 MHz for applications referred to in RR Nos. 2998B and 2998C

It is concluded that to date it is not technically desirable to subdivide the above-indicated band. A sub-division would require additional information on the progress of the concepts permitted under RR Nos. 2998B and 2998C which is not available (see also Document 3, section 6.13.3).

2. Use of the band 1 645.5 - 1 646.5 MHz

It is concluded that it is technically desirable to make provision in this band for intersatellite links for the relaying of distress messages, since adequate bandwidth is available to accommodate user needs for the two applications under consideration (i.e. satellite EPIRBs at 1.6 GHz and the above-indicated intersatellite links). No sub-division of the band should, however, be envisaged since such a decision would require additional information on the progress of the proposed concepts (see also Document 3, section 6.13.4).

Committee 4 has been requested to consider this matter in order to make appropriate modifications to Article 8. Committee 4 has also been asked to inform you on the action taken.

> E. GEORGE Chairman of the Technical Working Group of the Plenary



Document DT/62-E 2 October 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

NOTE FROM THE CHAIRMAN OF THE TECHNICAL WORKING GROUP OF THE PLENARY TO THE CHAIRMAN OF COMMITTEE 4

In response to the request from the Chairman of Committee 5 (Document 256) you are requested to take appropriate action concerning a decision taken by the Technical Working Group of the Plenary (see Document DT/61, paragraph 2) when reviewing Article 8 and to inform Committee 5 on your decisions accordingly.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

NOB-87 INTERINGTION THE MOBILE SERVICES GENEVA, September-October 1987

INTERNATIONAL TELECOMMUNICATION UNION

Document DT/63-E 2 October 1987 Original: English

TECHNICAL WORKING GROUP OF THE PLENARY

Draft

NOTE FROM THE CHAIRMAN OF THE TECHNICAL WORKING GROUP OF THE PLENARY TO THE CHAIRMAN OF COMMITTEE 4

The Technical Working Group of the Plenary has considered technical issues concerning proposals CEPT-3/10/11 and I/97/4 (draft Recommendation Relating to the Possible Reduction of the Band 4 200 - 4 400 MHz Allocated to the Aeronautical Radionavigation Service) and offers the following technical advice for your consideration of the draft Recommendation.

There has been considerable support that the CCIR study the necessary 1. bandwidth and frequency tolerance requirements for systems operating in the aeronautical radionavigation service in the frequency band 4 200 - 4 400 MHz without reducing their present accuracy, taking account of studies carried out by ICAO. It was considered that it may be possible to operate radio altimeters in this band with sufficient accuracy with a necessary bandwidth less than 200 MHz and that the frequency tolerance of such devices might be improved.

2. Studies by CCIR, if at all, should not be extended to other bands.

3. Some administrations objected to studies to be carried out by CCIR. In their view studies so far carried out by ICAO on this matter had shown that operational requirements of the service necessitated the entire band and that any reduction would have an immediate impact on the safety of flight.

> E. GEORGE Chairman of the Technical Working Group of the Plenary

Document DT/64-E 3 October 1987 Original: English

WORKING GROUP 5 AD HOC 1

<u>Draft</u>

FIFTH AND FINAL REPORT OF WORKING GROUP 5 AD HOC 1 TO COMMITTEE 5

1. During each of its eight meetings the Working Group gave consideration to the Resolution for implementing the GMDSS. The results of the considerations are presented in the form of Resolution No. [COM5/1] as attached in the <u>Annex</u>.

2. It should be noted that during the discussions on this matter reservations were made as follows:

- a) reservations by the delegates of Mexico, Togo and Tunisia on noting further c);
- b) reservations by the delegates of Togo and Tunisia on noting further d) concerning the use of the work "discontinuance";

(The delegates of Mexico and Uruguay were of the view that the second part of <u>noting further</u> d) should appear in the operative part of the Resolution.)

c) reservations by the delegates of Cuba, Mexico, Togo and Tunisia on <u>resolves</u> a).

R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

Annex: 1

ANNEX

Draft

RESOLUTION No. [COM5/1]

Relating to the Introduction of Provisions for the Global Maritime Distress and Safety System (GMDSS) and the Continuation of the Existing Distress and Safety Provisions

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

noting

that the International Maritime Organization (IMO):

- has reached the final stage of development of the Global Maritime Distress and Safety System (GMDSS);
- is preparing a revision of the International Convention for the Safety of Life at Sea (SOLAS), 1974, with a view to introducing the GMDSS;
- will decide the dates of initial and full implementation of the GMDSS including any intermediate dates of application for various classes of ships subject to the above-mentioned Convention;

noting further

a) that to ensure compatibility between ships following, on the one hand, Chapter IX and, on the other, Chapter N IX of the Radio Regulations, all ships subject to the 1974 SOLAS Convention will continue to use applicable existing distress and safety provisions until the GMDSS has been implemented fully;

b) that some administrations and ships not subject to the 1974 SOLAS Convention may continue to use provisions of Chapter IX on Distress and Safety Communications after the GMDSS has been implemented fully;

c) that it would be costly for administrations to maintain in parallel for an excessive period of time, shore-based facilities necessary to support both the existing distress and safety system and the GMDSS;

d) that discontinuance of the existing shore-based distress and safety services could deprive ships not subject to the SOLAS Convention of the possibility of obtaining assistance from these services, and that administrations should therefore encourage such ships to participate in the GMDSS before such time as the services are discontinued;

considering

a) that this Conference has placed in Chapter N IX the provisions which are required for the GMDSS to be implemented and that Chapter IX has been modified so that it retains the provisions that will not form part of the GMDSS; - 3 -MOB-87/DT/64-E

b) that, after the date of the introduction of the GMDSS, stations in the maritime mobile and the maritime mobile-satellite services are obliged to follow either the appropriate provisions established in Chapter IX or in Chapter N IX or in both;

c) that the introduction of the GMDSS will offer the opportunity to gain administrative, technical and operational experience with the new system;

d) that the experience gained from the operation of the GMDSS should be used to improve the distress and safety system;

recognizing

a) that to assist IMO, the provisions of Chapter N IX should enter into force prior to the initial implementation date of the GMDSS;

b) that some elements of the GMDSS described in Chapter N IX, particularly DSC, will not be fully operational in all parts of the world on the date that the Final Acts of this Conference come into force;

resolves

a) that Chapter N IX will come into force with the Final Acts of this Conference;

b) that administrations shall be obliged to follow the provisions of Chapter IX until the next competent conference decides otherwise;

invites

the Administrative Council to place on the agenda of the next competent conference this Resolution, Chapters IX and N IX with a view to considering any changes required to improve the distress and safety system;

invites also

the IMO, when deciding the dates of implementation of the GMDSS, to take into account;

1. Resolution No. 322(Rev.) Relating to the Selection of Coast Stations and Coast Earth Stations to Assume Watchkeeping Responsibilities on Certain Frequencies in Connection with the Implementation of Distress and Safety Communications for the GMDSS, which addresses the geographic distribution of coast stations and coast earth stations necessary for the implementation of the GMDSS;

2. the economic repercussions and benefits of the GMDSS and the particular needs of the developing countries;

3. the possibility of a progressive implementation of the GMDSS by bringing into effect component parts of the system particularly those having maximum benefit to the safety of life at sea;

requests the Secretary-General

to communicate this Resolution to IMO and the International Civil Aviation Organization (ICAO).

NDB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/65-E 3 October 1987 Original: English

WORKING GROUP 5 AD HOC 1

Draft

SIXTH REPORT OF WORKING GROUP 5 AD HOC 1 TO COMMITTEE 5

1. At the request of Committee 5, the Working Group reviewed Resolution No. 322(Rev.) as contained in Annex 2 to Document 268. This revision is attached in annex.

2. Committee 5 is requested to draw the attention of the appropriate Committee to the need to identify those stations maintaining watches on GMDSS frequencies and those which constitute part of the coordinated plan.

> R.C. McINTYRE Chairman of Working Group 5 ad hoc 1

Annex: 1

ANNEX

MOD

RESOLUTION No. 322(Rev.)

Relating to Coast Stations and Coast Earth Stations Assuming Watch-Keeping Responsibilities on Certain Frequencies in Connection with the Implementation of Distress and Safety Communications for the GMDSS

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the International Maritime Organization (IMO) is implementing a global maritime distress and safety system (GMDSS);

b) that this Conference has placed provisions in the Radio Regulations for distress and safety communications for the GMDSS to facilitate the progressive implementation of the new system while maintaining provision for continuation of the existing system during a transitional period;

c) that the new system necessitates the use or the exclusive use of a number of additional frequencies for maritime distress and safety purposes;

d) that the extra watch-keeping responsibilities associated with these additional frequencies may be too onerous to be assumed, for MF, HF and VHF frequencies, by all coast stations open to public correspondence and, for space systems, by all coast earth stations;

recognizing

a) that for the successful implementation of the new system there must be adequate geographical distribution of coast earth stations and coast stations keeping watch on the appropriate frequencies as well as those now in use;

b) that IMO is the organization best qualified to coordinate, a plan of coast earth stations and coast stations which administrations intend to use for keeping watch on GMDSS frequencies; - 3 -MOB-87/DT/65-E

resolves to invite IMO

in cooperation with the ITU, to coordinate a plan for coast stations to assume watch-keeping responsibilities on the HF DSC frequencies reserved for distress and safety calling and for coast earth stations to assume watch-keeping responsibilities on appropriate space system frequencies provided for use in the GMDSS and to forward this plan to the Secretary-General of the ITU, who shall bring it to the attention of all administrations and shall also include the information in an appropriate list.

requests the Secretary-General

to communicate this Resolution to the IMO.

INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/66-E 5 October 1987 Original: French

WORKING GROUP 4-B

Note by the Chairman of Working Group 4-B

DRAFT RESOLUTION

The draft amended text of Resolution No. 310 (Rev.Mob-83), prepared by a small Drafting Group, is annexed hereto.

J. PIPONNIER Chairman of Working Group 4-B

Annex: 1

ANNEX

RESOLUTION No. 310 (Rev.Mob-87)

Relating to Frequency Provisions for Development and Future Implementation of Ship Movement Telemetry, Telecommand and Data Exchange Systems

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) the need to specify radio frequencies which may be used by the maritime mobile service on a world-wide basis for ship movement requirements [including transmission of electronic nautical chart data corrections] using digital automated data exchange, telemetry and telecommand techniques;

b) the developments now in progress in different portions of the frequency spectrum which will require common frequency bands in the future for efficient frequency utilization;

c) the importance of these short-range systems in the safe and efficient operations of ships;

d) the advantages to port authorities for safe and efficient port management and operations;

noting

a) the CCIR is considering this matter particularly within its Question 55/8;

b) that further operational and technical information is needed in deciding the most effective frequency utilization and sharing criteria;

c) that the International Maritime Organization has identified a need for data exchange between shore and ship for ship's position and movement data, correction data of radionavigation systems and electronic nautical charts using digital transmission techniques (see CCIR Report 1044);

resolves

1. that the next competent world administrative radio conference shall review possible frequency provisions in the light of additional studies;

2. that the CCIR shall examine and advise on bandwidths and data formats in coordination with administrations developing and testing these digital transmission systems;

invites the Administrative Council

to include this Resolution in the agenda of a forthcoming competent world administrative radio conference.

INTERNATIONAL TELECOMMUNICATION UNION

WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/67-E 5 October 1987 Original: English

Source: Documents 290, 305, DL/57

WORKING GROUP 4-A

DRAFT

SEVENTH REPORT OF WORKING GROUP 4-A TO COMMITTEE 4

In addition to the items already reported in the previous reports, Working 1. Group 4-A took the following decisions:

1.1 To modify Article 8, as contained in Annex 1;

1.2 To modify Appendix 18, as contained in Annex 2; the notes n) and q) being in square brackets pending the decisions of Committee 5;

1.3 NOC for Recommendation No. 305.

2. The Working Group also approved a new Resolution COM4/2, and two new Recommendations (COM4/A and COM4/B) which are to be found in Annexes 3, 4 and 5.

With the exception of MOD RR 700 and MOD RR 701, all other decisions were 3. approved unanimously.

With respect to Appendix 18, the Delegations of France, Monaco and the 4. United Kingdom "expressed regret at the fact that the Conference appeared likely to reject any proposal for a short-term solution to the problem of the congestion prevailing in VHF channels of the maritime mobile service, which is critical in certain areas".

> J. KARJALAINEN Chairman of Working Group 4-A

Annexes: 5

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ANNEX 1

NOC 613

MOD 613A

In the maritime mobile VHF service the frequency 156.525 MHz is to be used exclusively as from 1 January 1986 for digital selective calling for distress, and safety and calling communications. The frequency 156.825 MHz is used exclusively for direct-printing telegraphy in the maritime mobile VHF service for distress and safety purposes. The conditions for the use of these frequencies are prescribed in Article 38 and in Appendix 18.

MHz 420 - 470

	Allocation to Services	
Region 1	Region 2	Region 3
430 - 440	430 - 440	
AMATEUR	RADIOLOCATION	I
RADIOLOCATION	Amateur	
653 654 655 656 657 658 659 661 662 663 664 665	653 658 659	0 660 663 664 <u>664</u> A

ADD 664A Additional allocation: in Mexico, the bands 430 - 435 MHz and 438 - 440 MHz are also allocated on a primary basis to the land mobile service, subject to the agreement obtained under the procedure set forth in Article 14.

MHz 470 - 890

,

	Allocation to Services			
Region 1	Region 2	Region 3		
	470 - 512 BROADCASTING Fixed Mobile 674 675	470 - 585 FIXED MOBILE BROADCASTING		
	512 - 608 BROADCASTING 678	673 677 679 585 - 610 FIXED		
	608 - 614 RADIOASTRONOMY Mobile-Satellite except aeronautical mobile-satellite (Earth-to-space)	MOBILE BROADCASTING RADIONAVIGATION 688 689 690		
	614 - 806 BROADCASTING Fixed Mobile	610 - 890 FIXED MOBILE BROADCASTING		
	675 692 693 <u>693A</u> 806 - 890 FIXED MOBILE BROADCASTING			
	700 <u>693A</u>	677 688 689 690 691 693 701		

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- MOD 674 <u>Different category of service</u>: in Mexico and Venezuela, the allocation of the band 470 - 512 MHz to the fixed and mobile services, and in Argentina and Uruguay to the mobile service, is on a primary basis (see No. 425), subject to agreement obtained under the procedure set forth in Article 14.
- ADD 693A <u>Additional allocation</u>: in Cuba, the band 614 890 MHz is also allocated to the radionavigation service on a primary basis, subject to agreement obtained under the procedure set forth in Article 14.
- MOD 699

Additional allocation: in Norway and Sweden, the bands 806 - 890 MHz and 942 - 960 MHz are also allocated to the mobilesatellite, except aeronautical mobile-satellite, service on a primary basis. The use of this service is limited to operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14. This service shall not cause harmful interference to services operating in accordance with the Table. In seeking such agreement, appropriate protection shall be afforded to services operating in accordance with the Table.

MOD 700

MOD 701

Additional allocation: in Region 2, the band 806 - 890 <u>896</u> MHz is also allocated to the mobile-satellite, except aeronautical mobile-satellite, service on a primary basis. The use of this service is intended for operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14.

Additional allocation: in Region 3, the bands 806 - 890 MHz and 942 - 960 MHz are also allocated to the mobile-satellite, except aeronautical mobile-satellite (R) service on a primary basis. The use of this service is limited to operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14. This service shall not cause harmful interference to services operating in accordance with the Table. In seeking such agreement, appropriate protection shall be afforded to services operating in accordance with the Table.

MHz 890 - 960

	Allocation to Services	
Region 1	Region 2	Region 3
······································	890 - 902	890 - 942
	FIXED	FIXED
	MOBILE except aeronautical mobile Radiolocation 705 700 902 - 928 FIXED Amateur Mobile except aeronautical mobile Radiolocation 705 707 705A 928 - 942 FIXED MOBILE except	MOBILE BROADCASTING Radiolocation
	aeronautical mobile	
	Radiolocation	
	705	706
	942 - 960	942 - 960
	FIXED	FIXED
	Mobile	MOBILE
		BROADCASTING
	708	701

ADD 705A

Different category of service: In Chile, the band 903 - 905 MHz is allocated to the mobile except aeronautical mobile service on a primary basis and is subject to agreement obtained under the procedure set forth in Article 14.

•

ANNEX 2

APPENDIX 18 Mob-8387

Table of Transmitting Frequencies in the Band 156 - 174 MHz for Stations in the Maritime Mobile Service

(See Nos. 613, 613A, 613B and Articles 59 and 60)

- Note 1: For assistance in understanding the Table, see notes a) to p/\underline{f}_{g} below.
- Note 2: Channels 01 to 28, except 15 and 17, correspond to the channels of Appendix 18 to the Radio Regulations, Geneva, 1959, and channels 15, 17, and 60 to 88 correspond to those additional channels made available for assignment in accordance with the provisions of Appendix 18 Mar to the Radio Regulations, Geneva, 1967 (see Resolution 308).
- Note 3: Channel designators 60 to 88 were chosen for the additional channels in order to separate them clearly from the original channels.

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Channel desig- Note		Natar	frequ	mitting encies Hz)	Inter-		ort ations	1	nip ement	Public corres-	
nat	-	INOLES	Ship stations	Coast stations	ship	Single fre- quency	Two fre- quency	Single fre- quency	Two fre- quency	pon- dence	
	60	h)	156.025	160.625			17		9	25	
01			156.050	160.650			10		15	8	
	61		156.075	160.675			23		3	19	
02			156.100	160.700			8		17	10	
	62		156.125	160.725			20		6	22	
03			156.150	160.750			9		16	9	
	63		156.175	160.775			18		8	24	
04			156.200	160.800			+ 11		14.	7	
	64		156.225	160.825			22		4	20	
05			156.250	160.850		,	6		19	12	
	65		156.275	160.875			21		5	21	
06		g)	156.300		1						
	66		156.325	160.925			19		7	23	
07			156.350	160.950			7		18	11	
	67	IJ	156.375	156.375	9	· 10		9			
08			156.400		2						
	68	n)	156.425	156.425		6		2			
09		m)	156.450	156.450	5	5		12			
	69	n)	156.475	156.475	8	11		4			
10		l)	156.500	156.500	3	9		10			
	70	p)	156.525	156.525	Digita	al selectiv	e calling	for distr	ess ₂ and s	afety <u>an</u> d	<u>calling</u>
11		n)	156.550	156.550		3		1			
	71	n)	156.575	156.575		7		6			
12		n)	156.600	156.600		1		3			
	72	m)	156.625		6						
13		n) <u>,q</u>	2 156.650	156.650	4	4		5			
	73	IJ	156.675	156.675	7	-12 -		11			
14		n)	156.700	156.700		2		7			
	74	n)	156.725	156.725		8		8			

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Channel	Notes	frequ	nitting encies Hz)	Inter-		ort ations		nip ement	Public corres-	
desig- nators	THORES	Ship stations	Coast stations	ship	Single fre- quency	Two fre- quency	Single fre- quency	Two fre- quency	pon- dence	
15	<i>i)</i>	156.750	156.750	11	14		14			
75	*		Guardba	nd 156.70	525 – 156	.7875 MI	Iz			
16		156.800	156.800	DISTR	ESS, SA	FETY A	ND CAL	LING		
76	*!				printing (purposes				156.83	875 MHz
17	i)	156.850	156.850	12	13		<u>13</u>			
77		156.875		10						
18	<i>f</i>)	156.900	161.500			3		22		
78		156.925	161.525			12		13	27	
19	<i>f</i>)	156.950	161.550			4		21		
79	f) nj	156.975	161.575			14		1		
20	<i>f</i>)	157.000	161.600			1		23		
80	f) n)	157.025	161.625			16		2		
21	<i>f</i>)	157.050	161.650			5		20		
81		157.075	161.675			15		10	28	
22	f)	157.100	161.700			2		24		
. 82		157.125	161.725			13		11	26	
23		157.150	161.750						5	
83		157.175	161.775						16	
24		157.200	161.800						4	
84		157.225	161.825			24		12	13	
25		157.250	161.850						3	
85		157.275	161.875	•					17	
26		157.300	161.900						1	
86	0)	157.325	161.925						15	
27		157.350	161.950			-#			2	
87		157.375	161.975						14	
28		157.400	162.000						6	
88	h)	157.425	162.025						18	

NOTES REFERRING TO THE TABLE

- NOC a) The figures in the column headed "Intership" indicate the normal sequence in which channels should be taken into use by mobile stations.
- NOC b) The figures in the columns headed "Port operations", "Ship movement" and "Public correspondence" indicate the normal sequence in which channels should be taken into use by each coast station. However, in some cases, it may be necessary to omit channels in order to avoid harmful interference between the services of neighbouring coast stations.
- NOC c) Administrations may designate frequencies in the intership, port operations and ship movement services for use by light aircraft and helicopters to communicate with ships or participating coast stations in predominantly maritime support operations under the conditions specified in Nos. 4144, 4148, 4149, 4150, 4151, 4152 and 4153. However, the use of the channels which are shared with public correspondence shall be subject to prior agreement between interested and affected administrations.
- MOD d) The channels of the present Appendix, with the exception of channels 06,415, 16, 17,475 and 76, may also be used for highspeed data and facsimile transmissions, subject to special arrangement between interested and affected administrations (see also notes k) and p)).

<u>70,</u>

- MOD e) Except in the United States of America, The channels of Appendix 18, preferably two adjacent channels from the series 87, 28, 88, with the exception of
 - 13. channels 06, 15, 16, 17, $\frac{1}{75}$ and 76, may be used for direct-printing telegraphy and data transmission, subject to special arrangement between interested and affected administrations (see also notes k) and p)).
- NOC f) The two-frequency channels for port operations (18, 19, 20, 21, 22, 79 and 80) may be used for public correspondence, subject to special arrangement between interested and affected administrations.

<u>, / N 2993 7</u>

MOD g) The frequency 156.300 MHz (channel 06) (see Nos. 2993/and 4154) may also be used for communication between ship stations and aircraft stations engaged in coordinated search and rescue operations. Ship stations shall avoid harmful interference to such communications on channel 06 as well as to communications between aircraft stations, ice-breakers and assisted ships during ice seasons. - <u>1</u>0 -MOB-87/DT/67-Е

- NOC h) Channels 60 and 88 can be used subject to special arrangements between interested and affected administrations.
- NOC *i*) The frequencies in this Table may also be used for radiocommunications on inland waterways in accordance with the conditions specified in No. **613**.
- NOC *j*) Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1 W, and subject to the national regulations of the administration concerned when these channels are used in its territorial waters. (However, see Recommendation **305**.)
- MOD k) The frequency 156.825 MHz (channel 76) is used exclusively for direct-printing telegraphy for distress and safety purposes subject to not causing harmful interference to channel 16 (see also Nos. 3033 and 4393). (Note not allocated)
- NOC 1) Within the European Maritime Area and in Canada these frequencies (channels 10, 67, 73) may also be used, if so required, by the individual administrations concerned, for communication between ship stations, aircraft stations and participating land stations engaged in coordinated search and rescue and anti-pollution operations in local areas, under the conditions specified in Nos. 4144, 4148, 4149, 4150, 4151, 4152 and 4153.
- NOC m) The preferred first three frequencies for the purpose indicated in note c) are 156.450 MHz (channel 09), 156.625 MHz (channel 72) and 156.675 MHz (channel 73).
 - n) These channels (68, 69, 11, 71, 12, 13, 14, 74, 79 and 80) are the preferred channels for the ship movement service. They may, however, be assigned to the port operations service until required for the ship movement service if this should prove to be necessary in any specific area. Channel 13 is also used on a worldwide basis for intership navigation safety communications.
- NOC o) This channel (86) may be used as a calling channel if such a channel is required in an automatic radiotelephone system when such a system is recommended by the CCIR.
- MOD p) This channel (70) is to be used exclusively for digital selective calling for distress, and safety purposes as from 1 January 1986 (see Resolution 317 (Mob-83)); until 31 December 1985 it may be used as an intership channel with order of priority 13 (see note a)). and calling (see Resolution COM4/2 7.

Channel 13 is designated for use on a world-wide basis as a navigation safety communication channel, primarily for intership navigation safety. It may also be assigned to the ship movement and port operations service subject to the national regulations of the administrations concerned, [provided that intership navigation safety is not in any way degraded].

q)

- <u>12</u> -MOB-87/DT/67-E

ANNEX 3

RESOLUTION [COM 4/2]

Relating to the Implementation and Use of Frequency 156.525 MHz for Digital Selective Calling for Distress, Safety and Calling

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

noting

that the World Administrative Radio Conference for the Mobile Services, 1983 (WARC MOB-83) designated, on an exclusive basis, the frequency 156.525 MHz for distress and safety calling by digital selective calling techniques;

considering

a) that the frequency 156.525 MHz became available for distress and safety calling using digital calling techniques on 1 January 1986;

b) that this Conference has decided that the frequency 156.525 MHz may also be used for other calling purposes using digital calling techniques;

c) that the Final Acts of this Conference will not enter into force until [];

d) that there is an urgent need to implement the use of digital selective calling on 156.525 MHz for calling purposes in addition to distress and safety calling at the earliest possible date;

e) that every effort must be made to prevent the use of 156.525 MHz for purposes other than digital selective calling in the maritime mobile service;

f) that the use of 156.525 MHz for other maritime mobile communication purposes must cease as soon as practical;

<u>resolves</u>

that the frequency 156.525 MHz in the maritime mobile service shall be used exclusively for digital selective calling for distress, safety and calling, as of 1 January 1988;

- 13 -MOB-87/DT/67-E

urges administrations

to take all practical measures including the possible use of technical means to prevent, as soon as possible, but not later than 1 January 1988, any maritime mobile use of the frequency 156.525 MHz other than indicated in the <u>resolves</u>;

requests the Secretary-General

to communicate this Resolution to the IMO.

- <u>14</u> -MOB-87/DT/67-E

ANNEX 4

RECOMMENDATION [COM4/A]

Relating to the Provision of Frequency Bands for Feeder Links in the Fixed-Satellite Service for the Aeronautical, [Land], Maritime or Mobile-Satellite Service in the Bands [1 530] - 1 559 MHz and 1 626.5 - 1 660.5 MHz

The World Administrative Radio Conference for Mobile Services, Geneva, 1987,

considering

a) that feeder links are required for the aeronautical mobilesatellite service, the [land mobile-satellite service], the maritime mobile-satellite service and the mobile-satellite service operating in the bands [1 530] - 1 559 MHz and 1 626.5 - 1 660.5 MHz;

b) that although No. 27 of the Radio Regulations indicates that such feeder links may be part of the mobile-satellite service, No. 22 of the Radio Regulations indicates that the fixed-satellite service may also include feeder links for the mobile-satellite services;

c) that the majority of such feeder links have been located in the bands 3 400 - 4 200 MHz and 5 925 - 7 075 MHz;

d) that the bands mentioned in considering c) above are becoming increasingly congested thus causing some difficulties during the coordination process;

e) that the inhomogenity of technical characteristics of feeder links for the mobile-satellite services and links of the fixed-satellite service results in coordination difficulties;

f) that distress and safety traffic is carried on feeder links for mobile-satellite services;

g) that extension of the spectrum necessary for feeder links in contiguous frequency bands would be desirable from a technical and economic point of view, but may cause significant sharing and/or allocation problems;

noting

that there were proposals by administrations to WARC MOB-87 for sub-bands in the frequency bands 3 400 - 4 200 MHz and 5 925 - 7 075 MHz where the feeder links for aeronautical, [land] maritime and mobilesatellites would have priority over other assignments to the fixedsatellite service, whilst other administrations were of the opinion that frequency spectrum for feeder links for mobile-satellite services can more readily be provided in fixed-satellite service bands by the normal coordination process;

additionally noting

that No. 726 of the Radio Regulations states that the allocation to the maritime mobile-satellite service in the band 1 530 - 1 535 MHz shall be effective from 1 January 1990. Up to that date the fixed service shall be on a primary basis in Regions 1 and 3;

recommends

that the World Administrative Radio Conference (ORB-88) shall take note of the concerns expressed in the considerings and notings above, in its decisions with respect to feeder links for the aeronautical mobilesatellite service, [the land mobile-satellite service], the maritime mobile-satellite service and the [mobile-satellite service] in the bands [1 530] - 1 559 MHz and 1 626.5 - 1 660.5 MHz;

requests the CCIR

to continue its study relating to this matter;

requests the Secretary-General

to forward this Recommendation to WARC ORB-88.

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ANNEX 5

RECOMMENDATION [COM4/B]

Relating to Improved Efficiency in the Use of Appendix 18 VHF Frequency Spectrum for Maritime Mobile Communications

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that growth in the use of Appendix 18 VHF maritime mobile channels is expected to continue;

b) that in many parts of the world significant congestion already exists;

c) that increases in congestion could be harmful to the safe movement and operation of vessels and port operations and is a matter of concern to the International Association of Lighthouse Authorities, the International Maritime Organization and many administrations;

noting

a) that it may be possible to make more efficient use of the VHF maritime mobile spectrum with the development of existing or new technologies such as narrow-band FM, single sideband, compandored sideband, use of interleaved channels separated by 12.5 kHz, reduced channel spacing, etc.;

b) that a great number of mariners using low-cost transceivers rely on this band and the safety services that are thereby provided;

c) that any modification to the Appendix 18 system shall take account of the distresss and safety utilization;

requests the CCIR

to urgently undertake studies to determine the most appropriate means of promoting a more efficient use of the frequency spectrum in the VHF maritime mobile band and to develop Recommendations covering the technical and operational characteristics of systems using this band;

invites administrations

to actively participate in these studies;

recommends

.

that a future competent administrative radio conference review and revise, if appropriate, the provisions of Appendix 18 taking into account relevant CCIR Recommendations;

requests the Secretary-General

to communicate this Recommendation to the International Association of Lighthouse Authorities and the International Maritime Organization.



NOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Corrigendum 1 to Document DT/68-E 8 October 1987 Original: English

WORKING GROUP 4-C

Replace pages 8, 9, 11, 48 and 57 by the attached revised pages.

		Calling frequencies assignable to ship stations for AlA or AlB Morse telegraphy		Frequencies (paired) assignable to ship stations for NEDP and data transmissions at speeds not exceeding 100 backs for FSK and 200 backs for RSK	(paired)paired) assignablessignable toto ship stationsnip stationsfor NEDP and AIA,or NEDP andAIB Morsedatatelegraphycarsmissions(working)t speeds notworking 100auds for FSKfor RSK				le to ship ns for ital		
Band MHz	Limit kHz	g)	Limit kHz	d)	Limit kHz	3)	Limit kHz	k,)	Limit kHz
4	4202.25	\ge	4202.25	\ge	4202.25	4202.5 10 c.	4207 0.5 kHz	4207.25	4207.5 3 c.	4209 0.5 kHz	4209.25
6	6300.25	\geq	6300.25	\ge	6300,25	6300.5 23 c.	6311.5 0.5 kHz	6311.75	6312 3 c.	6313.5 0.5 kHz	6313.75
8	8396.25	\geq	8396.25		8396.25	8396.5 36 c.	8414 0.5 kHz	8414.25	8414.5 3 c.	8416 0.5 kHz	8416.25
12	12549.75		12554.75	12555 12559.5 10 c. 0.5 kHz	12559.75	12560 34 c.	12576.5 0.5 kHz	12576.75	12577 3 c.	12578.5 0.5 kHz	12578.75
16	16733 .7 5		16738.75	16739 16784.5 92 c. 0.5 kHz	16784.75	16785 39 c.	16804 0.5 kHz	16804.25	16804.5 3 c.	16806 0.5 kHz	16806.25
18/19	18892.75	\ge	18892.75	\ge	18892.75	18893 11 c.	18898 0.5 kHz	18898.25	18898.5 3 c.	18899.5 0.5 kHz	18899.75
22	22351.75	\geq	22351.75	\ge	22351.75	22352 45 c.	22374 0.5 kHz	22374.25	2237.4.5 3 c.	22375.5 0.5 kHz	2237/5.75
25/26	25192.75		25192.75	\ge	25192.75	25193 31 c.	25208 0.5 kHz	25208,25	25208.5 3 c.	25209.5 0.5 kHz	25210

AP31(Rev.)

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c. = voie / channel / canal

			Frequent assignable station for band and AL Morse tele facsimile sp data trans systems an printing te syste	to coast r wide- A or AlB graphy, ecial and mission d direct- legraphy		(pa assig coast for N d trans syst syst spee bauts and 2	uencies ired) mable to stations EDP and ata mission ems at ds not ding 100 for FSK 00 bauds r FSK		ccast sta digital s	rcies to ations for selective Ling		to o statio telep	able to cast ns for	
Band MHz	Limit kHz	Limit kHz			Limit kHz		d)	Limit kHz			Limit kHz	a	.)	Limit kHz
4	4209.25		130	kHz	4339.25		4349 0.5 kHz	4349.25	4349 . 5 3 c .	4350.5 0.5 kHz	4351	4352.4 29 c.	4436.4 3 kHz	4438
6	6313.75		168.5	kHz	6482.25		6499 0.5 kHz	6499.25	6499 . 5 3 c.	6500.5 0.5 kHz	6501	6502.4 8 c.	6523.4 3 kHz	6525
8	8416.25		269	kHz	8685.25		8705 0.5 kHz	8705.25	8705.5 3 c.	8706.5 0.5 kHz	8707	8708.4 36 c.	8813.4 3 kHz	8815
12	12578.75		418.5	khz	12997.25		13075 0.5 kHz	13075.25	13075.5 3 c.	13076.5 0.5 kHz	13077	13078.4 41 c.	13198.4 3 kHz	13200
16	16806.25		337.5	khz	17143.75		17240 0.5 kHz	17240.25	17240.5 3 c.	17241.5 0.5 kHz	17242	17243.4 56 c.	17408.4 3 kHz	17410
18/19	19680		50	kłz	19730.25		19753 0.5 kHz	19753.25	19753.5 3 c.	19754.5 0.5 kHz	19755	19756.4 15 c.	19798.4 3 kHz	19800
22	22375.75		250.5	kHz	22626.25		22694 0.5 kHz	22694.25	22694.5 3 c.	22695.5 0.5 kHz	22696	22697.4 53 c.	22853.4 3 kHz	22855
25/26	26100		22.75	5 kHz	26122.75	26123 40 c.	26143 0.5 kHz	26143.25	26143.5 3 c.	26144.5 0.5 kHz	26145	26146.4 10 c.	26173.4 3 kHz	26175

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AP31(Rev.)

c. = voie / channel / canal

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	4 MH:	z	6 MHz	z	8 MH	z	12 MH	z
SHIP STATIONS	Present	New	Present	New	Present	New	Present	New
Telephony, Duplex	26	27	6	8	31	32	32	41
Telephony, Simplex	1	2	2	3	2	2	3	5
NBDP Paired	14	18	23	33	27	39	57	155
NBDP Non-Paired	5	10	4	23	6	36	14	34
Wideband Telegraphy	5	5	7	7	10	10	12	13
Oceanographic Data (kHz)	3.5	2	3.5	1.75	3.5	1.75	3.5	1.75
AlA Morse Wkng	62	31	57	31	120	59	194	110
AlA Morse Calling (kHz)	7.5	5	11	5	14	5	22	5
Digital Selective Calling	2	3	2	3	2	3	3	3
GMDSS NBDP	ī	ĩ	ī	1	ī	1	1	1
GMDSS DSC	1	ī	1	1	ī	ī	1	ī
GMDSS radiotelephony (exclusiv	_	-	-	-	ō	ī	-	
Total Ship Spectrum	153	144.8	109	112.5	233.5	217	312	347.5
COAST STATIONS	133	144.0	105	112.5	233.5	0	1	54/15
						-	_	
W'band Telegraphy Sp.Sys.(kHz)		130	168.5	168.5	269	269	418.5	418.5
NBDP Paired	14	18	23	33	27	39	57	155
DSC	1	3	1	3	2	3	2	3
Telephony, Duplex	26	29	6	8	31	36	32	41
NAVIEX	-	1	-	-	-	-	-	-
MSI	-	1	-	1	-	1	-	l
	16 MH:	Z	18/19 1	MHz	22 MH	Z	25/26 N	Hz
SHIP STATIONS	Present	New	Present	New	Present	New	Present	New
Telephony, Duplex	41	56		15	40	53		10
Telephony, Simplex	3	7		7	5	7		7
NBDP Paired	69	192		45	67	135	28	40
NBDP Non-Paired	22	39		11	2	45		31
Wideband Telegraphy	15	17		6	7	15		10
Oceanographic Data (kHz)	3.5	1.75		õ	3.5	1.75		0
A1A Morse Wkng	234	129		Ō	118	75	35	20
AlA Morse Calling (kHz)	29	5		Õ	20	5	6	1.5
Digital Selective Calling	3	3		3	2	3	Ũ	3
GMDSS NBDP	1	. 1		-	-	-	-	-
GMDSS DSC	ī	1		-		-	_	_
GMDSS radiotelephony (exclusiv	-	-						
Total Ship Spectrum	388	445		119.5	274.5	376		139.5
24 m	500	445		119.5	274.5	570		139.5
COAST STATIONS								
W'band Telegraphy Sp.Sys.(kHz)		337.5		50	250	250		23
NBDP Paired	69	192		45	67	135		40
DSC	2	3		3	2	3		3
Telephony, Duplex	41	56		15	40	53		10
MSI	-	1		1	-	1	-	1

ANNEX 2

Summary Appendix 31 (Rev.)

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Frequency Bands												
4 MHz	6 MHz	8 MHz	12 MHz	16 MHz	18/19 MHz	22 MHz	25/26 MHz					
4202.5 4203 4203.5 4204 4204.5	6300.5 6301 6301.5 6302 6302.5	8396.5 8397 8397.5 8398 8398.5	12560 12560.5 12561 12561.5 12562	16785 16785.5 16786 16786.5 16787	18893 18893.5 18894 18894.5 18895	22352 22352.5 22353 22353.5 22354	25193 25193.5 25194 25194.5 25195					
4205 4205.5 4206 4206.5 4207	6303 6303.5 6304 6304.5 6305	8399 8399.5 8400 8400.5 8401	12562.5 12563 12563.5 12564 12564.5	16787.5 16788 16788.5 16789 16789.5	18895.5 18896 18896.5 18897 18897.5	22354.5 22355 22355.5 22356 22356.5	25195.5 25196 25196.5 25197 25197.5					
	6305.5 6306 6306.5 6307 6307.5	8401.5 8402 8402.5 8403 8403.5	12565 12565.5 12566 12566.5 12567	16790 16790.5 16791 16791.5 16792	18898	22357 22357.5 22358 22358.5 22359	25198 25198.5 25199 25199.5 25200					
	6308 6308.5 6309 6309.5 6310	8404 8404.5 8405 8405.5 8405.5 8406	12567.5 12568 12568.5 12569 12569.5	16792.5 16793 16793.5 16794 16794.5		22359.5 22360 22360.5 22361 22361.5	25200.5 25201 25201.5 25202 25202.5					
	6310.5 6311 6311.5	8406.5 8407 8407.5 8408 8408.5	12570 12570.5 12571 12571.5 12572	16795 16795.5 16796 16796.5 16797		22362 22362.5 22363 22363.5 22364	25203 25203.5 25204 25204.5 25205					
		8409 8409.5 8410 8410.5 8411	12572.5 12573 12573.5 12574 12574.5	16797.5 16798 16798.5 16799 16799.5		22364.5 22365 22365.5 22366 22366 22366.5	25205.5 25206 25206.5 25207 25207.5					
		8411-5 8412 8412-5 8413 8413-5	12575 12575.5 12576 12576.5	16800 16800.5 16801 16801.5 16802		22367 22367.5 22368 22368.5 22369	2521)8					
		8414		16802.5 16803 16803.5 16804		22369.5 22370 22370.5 22371 22371.5						
						22372 22372.5 22373 22373.5 22374						
	4202.5 4203 4203.5 4204 4204.5 4205 4205 4205 4205 4206 4206 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 MHz 6 MHz 8 MHz 4202.5 6300.5 8396.5 4203 6301.5 8397.5 4203.5 6301.5 8397.5 4204.5 6302.5 8398.5 4205.5 6303.5 8399.5 4206 6303.5 8399.5 4206 6303.5 8400.5 4207 6305.5 8401.5 6306.5 8401.5 8402.5 6307.5 8401.5 8402.5 6306 8402.5 8403.5 6307.5 8401.5 8402.5 6307 8403.5 8403.5 6308 8404.5 8403.5 6309.5 8405.5 8405.5 6310.5 8405.5 8407.5 6310.5 8406.5 8408.5 8408 8408.5 8408.5 8408 8408.5 8409.5 8411.5 8411.5 8411.5 8411.5 8412.5 8413.5 8413.5 8413.5 </td <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>4 MHz 6 MHz 8 MHz 12 MHz 16 MHz 4202.5 6300.5 8396.5 12560 16785.5 4203.5 6301.5 8397.5 12561 16785.5 4203.5 6301.5 8398.5 12561.5 16785.5 4204.5 6302.5 8398.5 12562.5 16787.5 4205.5 6303.5 8399.5 12563.5 16788.5 4205.6 6304.5 8400.5 12563.5 16788.5 4206.6 6304.5 8400.5 12563.5 16789.5 4207 6305.5 8401.5 12565.5 16789.5 6306.5 8402.2 12565.5 16790.5 6306.5 6306.5 8402.5 12565.5 16791.5 6307.5 8403.5 12567 16792.5 6308.5 8404.5 12569.5 16793.5 6309.5 8405.5 12569.5 16793.5 6309.5 8405.5 12570.5 16793.5 6309.5 8406.5</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>4 MHz 6 MHz 8 MHz 12 MHz 16 MHz 18/19 MHz 22 MHz 4202.5 6301 6301.5 6301.5 6302.8 4203.5 6302.8 6302.8 6302.5 6302.8 6303.5 6302.8 6303.5 6303.5 6303.5 6303.5 6303.5 6303.5 6303.5 6303.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6306.5 8401.5 6306.5 8402.5 6306.5 6306.5 8402.5 6307.5 6306.5 8402.5 6307.5 6306.5 8402.5 6307.5 6308.5 6308.5 6308.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 7 22356.5</td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4 MHz 6 MHz 8 MHz 12 MHz 16 MHz 4202.5 6300.5 8396.5 12560 16785.5 4203.5 6301.5 8397.5 12561 16785.5 4203.5 6301.5 8398.5 12561.5 16785.5 4204.5 6302.5 8398.5 12562.5 16787.5 4205.5 6303.5 8399.5 12563.5 16788.5 4205.6 6304.5 8400.5 12563.5 16788.5 4206.6 6304.5 8400.5 12563.5 16789.5 4207 6305.5 8401.5 12565.5 16789.5 6306.5 8402.2 12565.5 16790.5 6306.5 6306.5 8402.5 12565.5 16791.5 6307.5 8403.5 12567 16792.5 6308.5 8404.5 12569.5 16793.5 6309.5 8405.5 12569.5 16793.5 6309.5 8405.5 12570.5 16793.5 6309.5 8406.5	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4 MHz 6 MHz 8 MHz 12 MHz 16 MHz 18/19 MHz 22 MHz 4202.5 6301 6301.5 6301.5 6302.8 4203.5 6302.8 6302.8 6302.5 6302.8 6303.5 6302.8 6303.5 6303.5 6303.5 6303.5 6303.5 6303.5 6303.5 6303.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6304.5 6306.5 8401.5 6306.5 8402.5 6306.5 6306.5 8402.5 6307.5 6306.5 8402.5 6307.5 6306.5 8402.5 6307.5 6308.5 6308.5 6308.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 6307.5 8403.5 7 22356.5					

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Sub-Section IIB. Procedure to Be Followed for Coast Radiotelephone MOD Stations Operating in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz 27 500 § 24. (1) Examination of Notices Concerning Frequency Assign-MOD 1315 ments to Coast Radiotelephone Stations in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23-000 kHz for Coast Radiotelephone Stations (see No. 1239). 27 500 § 25. (1) Examination of Notices Concerning Frequencies Used for 1326 Reception by Coast Radiotelephone Stations in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 27 500 23 000 kHz for Ship Radiotelephone Stations (see Nos. 1219 and 1239). MOD § 40. (1) Frequency Bands: 1388 9 - 2850 kHz kHz 3155 - 3400 kHz in Region 1 3 500 - 3 900 3 500 - 4 000 kHz in Region 2 3 500 - 3 950 kHz in Region 3 4 209.5 - 4 339.25 kHz 4 219.4 - 4 349.4 kHz 6-325.4 - 6-493.9 kHz 6 313.75 - 6 482.25 kHz 8 435.4 - 8 704.4 kHz 8 416.25 - 8 685.25 kHz 12-652.3 13-070.8 kHz 12 578.75 - 12 997.75 kHz 16 859.4 - 17 196.9 kHz 16 806.25 - 17 143.25 kHz / <u>19 680 - 19 730.25 kHz</u> 7 22 310.5 - 22 561 kHz 22 37 5.75 - 22 626.25 kHz

/ 26 100 - 26 122.75 kHz 7

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MOD

1391

1395

§ 41. (1) Frequency Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz for Coast Radiotelephone Stations. 27 500

MOD

§ 42. (1) Frequency Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz for Ship Radiotelephone Stations. 27 500

MOD

INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

MOB·87

Document DT/68-E 6 October 1987 Original: English

WORKING GROUP 4-C

DRAFT REPORT BY WORKING GROUP 4-C TO COMMITTEE 4

1. Working Group 4-C met eight times.

2. At its sixth meeting it established Sub-Working Group 4-C-2 in which representatives of the following delegations participated: Brazil, Canada, China, Japan, Morocco, United Kingdom, Ukraine, United States and USSR.

3. Sub-Working Group 4-C-2 met seven times and established, on the basis of the basic principles contained in Annex 1 to Document 227, a draft of a revised Appendix 31.

4. At its seventh meeting Working Group 4-C approved the revised Appendix 31 (see <u>Annex 1</u>). The Delegation of Greece expressed a reservation on the extent of the sub-bands for calling frequencies assignable to ship stations for AlA or AlB Morse telegraphy in the 8, 12 and 16 MHz bands which they consider to be not adequate to meet the requirements.

5. In Annex 2 a compilation is given of the results of the work for every exclusive maritime mobile HF band together with the present situation in Appendix 31.

6. The attention of Committee 4 is drawn to the possibility that the frequencies from the sub-bands for NBDP (non-paired) may also be used for AlA and AlB Morse telegraphy (working) (see heading of the relevant columns in Appendix 31(Rev.)).

The Working Group decided that frequencies from those sub-bands may also be used for NBDP duplex operation (see Appendix 33(Rev.) in <u>Annex 6</u>). When doing so, coast station frequencies should be selected by administrations from the sub-bands for coast station wideband telegraphy, facsimile and special transmission systems.

7. In order to maintain the possibilities for AlA and AlB Morse telegraphy (working) it was decided that the newly added assignable frequencies for ship stations for NBDP (paired) may also be used for ship stations AlA and AlB Morse telegraphy (working). The frequencies to which this applies are duly marked in Appendix 32(Rev.) (see <u>Annex 5</u>). However, in the 4 MHz band the Working Group decided that <u>all</u> frequencies assignable to ship stations for NBDP (paired) may be used for AlA and AlB Morse telegraphy (working). This is to preserve, in the 4 MHz band, sufficient possibilities for AlA and AlB Morse telegraphy (working).

8. It was <u>not</u> possible to retain unchanged in all cases the frequencies for use in the GMDSS for DSC, NBDP and radiotelephony. <u>Annex 3</u> contains among others the list of frequencies for use in the GMDSS. 9. The frequency 8 364 kHz (see RR 501, RR 2987, RR 2988 and RR 3005) does not need to be changed.

10. The Working Group succeeded in maintaining the harmonic relationship between the common channels in the 4, 6, 8, 12 and 16 MHz bands while using a channel width of 0.5 kHz (see Appendix 34(Rev.) in <u>Annex 7</u>).

11. As can be seen in <u>Annex 7</u> the format of Appendix 34 is not changed. Furthermore, no changes need to be made in the annex to Resolution No. 312.

12. Following the decision of Committee 5 (Document 257 refers) the Working Group provided for an exclusive frequency in the 8 MHz band for the GMDSS for distress and safety traffic using radiotelephony (viz. 8 291 kHz).

13. Furthermore, one exclusive frequency in each of the 4, 6, 8, 12, 16, 18/19, 22 and 25/26 MHz band was selected from the coast station NBDP (paired) sub-bands for the promulgation of marine safety information (MSI) to ships using NBDP.

14. Following the decision in Committee 5 (see Document 204), the Working Group selected an exclusive frequency in the 4 MHz band for NAVTEX type transmissions in the coast station NBDP (paired) sub-band (see Annex 3).

In the 8 MHz band an exclusive frequency has been provided for GMDSS radiotelephony for distress and safety traffic (viz. 8 291 kHz).

15. For radiotelephony in the 4 and 8 MHz bands additional frequencies are selected for duplex operation. For only 1 of the 3 additional coast station frequencies in the 4 MHz a corresponding ship station frequency is provided. In the 8 MHz band for only 1 of 5 additional coast station frequencies a corresponding ship station frequency is provided.

The "missing" ship station frequencies (e.g. 2 in the 4 MHz band and 4 in the 8 MHz band) to be used for duplex operation should be selected by administrations from the sub-bands for radiotelephony simplex or from the shared bands 4 000 - 4 063 kHz or 8 100 - 8 195 kHz.

16. Concerning the channelling in Appendix 31(Rev.) the Working Group decided to place the carrier frequencies for radiotelephony on integer multiples of 1 kHz (see principle No. 1 in Annex 1 to Document 227).

17. Concerning the channelling for AlA and AlB Morse telegraphy (working and calling frequencies) and NBDP, the Working Group decided to place the "assignable frequencies" on multiples of both 0.5 kHz and 1 kHz.

18. Consideration had been given to a possible merging of Appendices 16, 32, 33, 34 and 35 in a revised Appendix 31. The Working Group decided not to merge these appendices.

[19. The Working Group approved the revisions of Appendices 16, 32, 33, 34 and 35, which can be found in <u>Annexes 4 to 8</u> respectively.]

20. The attention of Committee 4 is drawn to amendments which are to be made in Articles 8 and 12 consequential to the revisions of Appendix 31. The relevant amendments are shown in <u>Annex 9</u>. Dependent on the decisions to be taken in Sub-Working Group 4 ad hoc 2, further amendments may be needed in Sub-Section IIB and Section III of Article 12. 21. Consequential amendments are also to be made to Chapters IX, N IX and XI. The Chairmen of Committees 5 and 6 should be invited to take into account the decisions of Committee 4 concerning the revision of Appendix 31. A draft note is shown in <u>Annex 10</u>.

[22. Following the reduction of the channel-width for radiotelephony from 3.1 kHz to 3 kHz, consequential changes have to be made to Appendix 25. The attention of Committee 4 is drawn to the fact that the allotments in the said Appendix can remain on the same channel numbers.

A procedure has to be developed with a view to regulating the modification of frequencies (carrier and assigned) for radiotelephony which appear in Appendix 25.]

[23. A decision should be taken with regard to the procedure for the taking into use of the additional channels for radiotelephony (duplex).]

[24. Following the revision of Appendix 31, the sub-bands for coast stations for wideband telegraphy and AlA or AlB Morse telegraphy etc. (although the amount of spectrum available in these sub-bands remains the same) are relocated. This requires, in the opinion of the Working Group, a procedure to regulate the transfer.]

[25. The Working Group decided that the revised Appendix 31 shall be implemented on the same date as the coming into force of the Final Acts of this Conference.]

> A.R. VISSER Chairman of Working Group 4-C

Annexes: 10

ANNEX 1

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APPENDIX 31(Rev.)

Table of Frequencies to Be Used in the Bands Between 4 MHz and27.5 MHz Allocated Exclusively to the Maritime Mobile Service

(See Article 60)

In the table, where appropriate, the assignable frequencies in a given band for each usage are:

- indicated by the lowest and highest frequency, in heavy type, assigned in that band;
- regularly spaced, the number of assignable frequencies and the spacing in kHz being indicated in italics.

	-	Freque assigna ship st for com data tran	ble to ations ographic		Freque assigna ship st for tel duplex q	ble to ations		Freque assigna ship an statio telephony opera	ole to d coast ns for , simplex		Freque assign ship st for wid telegr facsimil speci transmi syste	ble to ations le-band aphy, e, and al ssion	
Band MHz	Limit KHz	c)	Limit kHz	a)	i)	Limit kHz	a)		Limit KHz			Limit KHz
4	4063	4063.3 6 c.	4064.8 0.3 kHz	4065	4066.4 27 c.	4144.4 3 kHz	4146	4147.4 2 c.	4150.4 3 kHz	4152	4154 5 c.	4170 4 kHz	4172
6	6200		\leq	6200	6201.4 8 c.	6222.4 3 kHz	6224	6225.4 3 c.	6231.4 3 kHz	6233	6235 7 c.	6259 4 kHz	6261.
8	8195		\langle	8195	8196.4 32 c.	8292.4 3 kHz	8294	8295.4 2 c.	8298.4 3 kHz	8300	8302 10 c.	8338 4 kHz	8340
12	12230		<	12230	12231.4 41 c.	12351.4 3 kHz	12353	12354.4 5 c.	12366.4 3 kHz	12368	12370 13 c.	12418 4 kHz	12420
16	16360		\langle	16360	16361.4 56 c.	16526.4 3 kHz	16528	16529.4 7 c.	16547.4 3 kHz	16549	16551 17 c.	16615 4 kHz	16617
18/19	18780		\langle	18780	18781.4 15 c.	18823.4 3 kHz	18825	18826.4 7 c.	18844.4 3 kHz	18846	18848 6 c.	18868 4 kHz	18870
22	22000		\langle	22000	22001.4 53 c.	22157.4 3 kHz	22159	22160.4 7 c.	22178.4 3 kHz	22.180	22182 15 c.	22238 4 kHz	22240
25/26	25070		\langle	25070	25071.4 10 c.	25098.4 3 kHz	25100	25101.4 7 c.	25119.4 3 kHz	25121	25123 10 c.	25159 4 kHz	25161.25

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c. = voie / charnel / canal

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		assign ship stat	ancies able to tions for graphic ission		stations and d transmis	e to ship for NUP ata sions at ecceeding for FSK auds for		Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy		Frequencies (paired) assignable to ship stations for NEDP and data transmissions at speeds not exceeding 100 bands for FSK and 200 bands for FSK		AP31(Rev.)
Band MHz	Limit. Mz	c)	Limit KHz	d)	j)	Limit Mz	g)	Limit kHz	d)	Limit KHz	
4	4172	>		4172	4172.5 18 c.	4181.5 0.5 kHz	4181.75		4186.75		4186.75	
6	6261	6261.3 5 c.	6262.5 0.3 kHz	6262.75	තිය 25 c.	6275.5 0.5 kHz	6275.75		6280.75	6281 6284.5 8 c. 0.5 kHz	6284.75	
8	8340	8340.3 5 c.	8341.5 0.3 kHz	8341.75	>	$\overline{\langle}$	8341.75		8341.75		8341.75	
12	12420		12421.5 0.3 kHz			<	12421.75		12421.75		12421.75	
16	16617	16617.3 5 c.	16618.5 0.3 kHz			$\overline{}$	16618.75		16618.75		16618.75	
18/19	18870		$\overline{\langle}$	18870		$\overline{\langle}$	18870	$\mathbf{\mathbf{X}}$	18870		18870	
22	22240	22240.3 5 c.	22241.5 0.3 kHz	22241.75		$\overline{}$	22241.75		22241.75		22241.75	
25/26	25161.25	\searrow	<	25161.25			25161.25	$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	25161.25		25161.25	

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c. = voie / channel / canal

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		Work freque assignabl stations or AIB teleg	ncies e to ship for A1A Morse		Calling frequencies assignable to ship stations for AIA or AIB Morse telegraphy		ship st for A17 Mor				red) e to ship hy and smission t speeds ding 100 FSK and	
Bands MHz	Limit kHz	e)	f)	Limit kHz	g)	Limit kHz	e)	f)	Limit kHz	đ)	j)	Limit KHz
4	4186.75	4187 31 c.	4202 0.5 kHz	4202.25	\ge	4202.25	\sum	<	4202.25	$\left \right\rangle$		4202.25
6	6284.75	6285 31 c.	6300 0.5 kHz	6300.25	\ge	6300.25	\sum	<	6300.25	>	\langle	6300.25
8	8341.75	8342 48 c.	8365.5 0.5 kHz	8365.75		8370.75	8371 11 c.	8376 0.5 kHz	8376.25	8376.5 39 c.	8396 0.5 kHz	8396.25
12	12421.75	12422 110 c.	12476.5 0.5 kHz	12476.75		12476.75	\sum	<	12476.75	12477 145 c.	12549.5 0.5 kHz	12549.75
16	16618.75	16619 129 c.	16683 0.5 kHz	16683.25	\ge	16683.25	>	<	16683.25	16683.5 100 c.	16733.5 0.5 kHz	16733.75
18/19	18870	>	\langle	18870		18870	>	<	18870	18870.5 45 c.	18892.5 0.5 kHz	18892.75
22	22241.75	22242 75 c .	22279 0.5 kHz	22279.25		22284.25		<	22284.25	22284.5 135 c.	22351.5 0.5 kHz	22351.75
25/26	25161.25	25161.5 20 c.	25171 0.5 kHz	25171.25		25172.75	\geq	\leq	25172.75	25173 40 c.	25192.5 0.5 kHz	25192.75

c. = voir / channel / canal

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		Calling frequencies assignable to ship stations for AlA or AlB Morse telegraphy		Frequencies (paired) assignable to ship stations for NEDP and data transmissions at speeds not exceeding 100 bands for FSK and 200 bands for FSK		paired) a to ship s for NEDP A1B 1 teleg	stations and AlA, Morse		assignab statio Dig	ancies le to ship ns for ital e Calling	
Band MHz	Limit KHz	g)	Limit kHz	d)	Limit kHz]	b)	Limit. kHz	ĸ)	Limit KHz
4	4202.25	\ge	4202.25	\ge	4202.25	4202.5 10 c.	4207 0.5 kHz	4207.25	4207.5 3 c.	4209 0.5 kHz	4209.25
6	6300.25	\ge	6300.25		<u>6</u> 300 . 25	6300.5 23 c.	6311.5 0.5 kHz	6311.75	6312 3 c.	6313.5 0.5 kHz	6313.75
8	8396.25	\ge	8396.25	\ge	8396.25	8396.5 36 c.	8414 0.5 kHz	8414.25	8414.5 3 c.	8416 0.5 kHz	8416.25
12	12549.75		12554.75	12555 12559.5 10 c. 0.5 kHz	12559.75	12560 34 c.	12576.5 0.5 kHz	12576.75	12577 3 c.	12578.5 0.5 kHz	12578.75
16	16733.75		16738.75	16739 16784.5 92 c. 0.5 kHz	16784.75	16785 39 c.	16804 0.5 kHz	16804.25	16804.5 3 c.	16806 0.5 kHz	16806.25
18/19	18892.75		18892.75	\ge	18892.75	18893 11 c.	18898 0.5 kHz	18898.25	18898.5 3 c.	18899.5 0.5 kHz	18899.75
22	22351.75	\ge	22351.75		22351.75	22352 46 c.	22374.5 0.5 kHz	22374.75	22375 3 c.	22376 0.5 kHz	22376.25
25/26	25192.75	\ge	25192.75	\ge	25192.75	25193 31 c.	25208 0.5 kHz	25208.25	25208.5 3 c.	25209.5 0.5 kHz	25210

c. = voie / channel / canal.

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			Frequent assignable station fo band and AL Morse tele facsimile sp data trans systems an printing te syste	to coast r wide- A or AlB graphy, ecial and mission ad direct- elegraphy		(para assig coast : for N da trans syste syste spea backs and 2	uencies ired) mable to stations EDP and ata mission ans at ding 100 for FSK 00 bauds r FSK					Freque assign to o statio telep duplex q	able to cast ns for hony,	
Band MHz	Limit kHz	Limit kHz			Limit kHz	(d)	Limit kHz			Limit kHz	а)	Limit kHz
4	4209.25		130	khz	4339.25		4349 0.5 kHz	4349.25	4349.5 3 c.	4350.5 0.5 kHz	4351	4352.4 29 c.	4436.4 3 kHz	4438
6	6313.75		168.5	kłz	6482.25		6499 0.5 kHz	6499.25	6499 . 5 3 c.	6500.5 0.5 kHz	6501	6502.4 8 c.	6523.4 3 kHz	6525
8	8416.25		269	kłz	8685.25		8705 0.5 kHz	8705.25	8705.5 3 c.	8706.5 0.5 kHz	8707	8708.4 36 c.	8813.4 3 kHz	8815
12	12578.75		418.5	kHz	12997.25		13075 0.5 kHz	13075.25	13075.5 3 c.	13076.5 0.5 kHz	13077	13078.4 41 c.	13198.4 3 kHz	13200
16	16806.25		337.5	kHz	17143.75		17240 0.5 kHz	17240.25	17240.5 3 c.	17241.5 0.5 kHz	17242	17243.4 56 c.	17408.4 3 kHz	17410
18/19	19680		50	kłz	19730.25		19753 0.5 kHz	19753.25	19753.5 3 c.	19754.5 0.5 kHz	19755	19756.4 15 c.	19798.4 3 kHz	19800
22	22376.25		250	kłłz	22626.25	1	22694 0.5 kHz	22694.25	22694.5 3 c.	22695.5 0.5 kHz	22696	22697.4 53 c.	22853.4 3 kHz	22855
25/26	26100		22.75	5 kHz	26122.75		26143 0.5 kHz	26143.25	26143.5 3 c.	26144.5 0.5 kHz	26145	26146.4 10 c.	26173.4 3 kHz	26175

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c. = voie / channel / canal

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NOTES REFERRING TO THE TABLE

- a) See Appendix 16 (Rev.).
- b) See Appendix 33 (Rev.)
- c) The frequency bands may also be used by buoy stations for oceanographic data transmission and by stations interrogating these buoys, in accordance with the conditions set forth in Resolution No. 314.
- d) See Appendix 32 (Rev.).
- e) In the frequency bands to be used by ship stations for AlA Morse telegraphy working at speeds not exceeding 40 bauds, administrations may assign additional frequencies interleaved between the assignable frequencies. Any frequencies so assigned shall be multiples of 100 Hz. Administrations shall ensure a uniform distribution of such assignments within the bands.
- f) See Appendix 35 (Rev.).
- g) See Appendix 34 (Rev.).
- For the conditions of use of the frequency 8 364 kHz, see No. 2988.
- For the use of the carrier frequencies 4 125 kHz, 6 215 kHz, 8 291 kHz, 12 290 kHz and 16 420 kHz in these sub-bands by ship and coast stations for distress and safety purposes, see Article N 38.
- j) For the use of the frequencies 4 177.5 kHz, 6 268 kHz,
 8 376.5 kHz, 12 520 kHz and 16 695 kHz in these sub-bands by ship and coast stations for distress and safety purposes, see Article N 38.
- k) For the use of the frequencies 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz in these sub-bands by ship and coast stations for distress and safety purposes, see Article N 38.

	4 MHz	z	6 MHz		8 MHz	:	12 MH	z
SHIP STATIONS	Present	New	Present	New	Present	New	Present	New
Telephony, Duplex	26	27	6	8	31	32	32	41
Telephony, Simplex	1	2	2	3	2	2	3	5
NBDP Paired	14	18	23	33	27	39	57	155
NBDP Non-Paired	5	10	4	23	6	36	14	34
Wideband Telegraphy	5	5	7	7	10	10	12	13
Oceanographic Data (kHz)	3.5	2	3.5	1.75	3.5	1.75	3.5	1.75
AlA Morse Wkng	62	31	57	31	120	59	194	110
AlA Morse Calling (kHz)	7.5	5	11	5	14	5	22	5
Digital Selective Calling	2	3	2	3	2	3	3	3
GMDSS NBDP	1	1	1	1	1	1	1	1
GMDSS DSC	1	ī	ĩ	1	1	1	1	1
GMDSS radiotelephony (exclusiv	/e)	_	_		0	1		
Total Ship Spectrum	153	144.8	109	112.5	233.5	217	312	347.5
COAST STATIONS						0	1	
W'band Telegraphy Sp.Sys.(kHz)		130	168.5	168.5	269	269	418.5	418.5
NBDP Paired	14	18	23	33	27	39	57	155
DSC	1	3	1	3	2	3	2	3
Telephony, Duplex	26	29	6	8	31	36	32	41
NAVIEX	-	1	-	-	-	-		
MSI	-	1	. –	1	-	1	-	1
	16 MH2	z	18/19 M	Hz	22 MHz		25/26 M	H z
SHIP STATIONS	Present	New	Present	New	Present	New	Present	New
Telephony, Duplex	41	56		15	40	53		10
Telephony, Simplex	3	7		7	5	7		7
NBDP Paired	69	192		45	67	135	28	40
NBDP Non-Paired	22	39		11	2	46		31
Wideband Telegraphy	15	17		6	7	15		10
Oceanographic Data (kHz)	3.5	1.75		0	3.5	1.75		0
AlA Morse Wkng	234	129		0	118	75	35	20
AlA Morse Calling (kHz)	29	5		0	20	5	6	1.5
Digital Selective Calling	3	3		3	2	3		3
GMDSS NBDP	1	. 1		-	-	-		-
GMDSS DSC	1	1		-	-	-	-	-
GMDSS radiotelephony (exclusiv	/e)							
Total Ship Spectrum	388	445		119.5	274.5	376		139.5
COAST STATIONS								
W'band Telegraphy Sp.Sys.(kHz)	337.5	337.5		50	250	250		23
NBDP Paired	337.5	337.33		••				
	69	192		45	67	135		40
DSC					67 2			40 3
	69	192		45		135		

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ANNEX 2

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ANNEX 3

List of frequencies for use in the GMDSS, for the promulation of marine safety informations (MSI) and for NAVTEX type transmissions

1. <u>GMDSS frequencies</u>

Radiote	lephony		DSC	NBDP		
Present (kHz) (carrier frequencies)	New (kHz) (carrier frequencies)	Present (kHz)	New (kHz)	Present (kHz)	New (kHz)	
4 125 6 215.5 8 257 12 392 16 522	4 125 6 215 8 291 12 290 16 420	4 188 6 282 8 375 12 563 16 750	4 207.5 6 312 8 414.5 12 577 16 804.5	4 177.5 6 268 8 357.5 12 520 16 695	4 177.5 6 268 8 376.5 12 520 16 695	

2. Frequencies for MSI (kHz)

4	340	17	144
6	482.5	19	730.5
8	685.5	22	626.5
12	997.5	26	123.5

3. Frequency for NAVTEX type transmissions (kHz)

4 339.5

ANNEX 4

APPENDIX 16 (Rev.) Mob-85

Channelling of the Maritime Mobile Radiotelephone Bands Between 4 000 kHz and 23-000 27 500 kHz

(See Article 60, Section IV)

1. Radiotelephone channelling arrangements for the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile service are indicated in the following sections:

> Section A – Table of single-sideband transmitting frequencies for duplex (two-frequency) operation (in kHz);

- Section B Table of single-sideband transmitting frequencies for simplex (single-frequency) operation and for intership cross-band (two-frequency) operation (in kHz);
- Section C-1 Table of single-sideband transmitting frequencies (in kHz) for ship stations in the band 4000 -4063 kHz shared with the fixed service;
- Section C-2 Table of single-sideband transmitting frequencies (in kHz) for ship and coast stations in the band 8 100 - 8 195 kHz shared with the fixed service.

2. The technical characteristics for single-sideband transmitters are specified in Appendix 17.

3. One or more series of frequencies from Section A (with the exception of those frequencies mentioned in paragraph 5 below) may be assigned to each coast station, which uses these frequencies associated in pairs (see No. 4381); each pair consists of a transmitting and a receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

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4. The frequencies in Section B are provided for worldwide common use by ships of all categories, according to traffic requirements, for ship transmissions to coast stations and for intership communication. They are also authorized for worldwide common use for transmissions by coast stations (simplex operation) provided the peak envelope power does not exceed 1 kW. (See Recommendation 304.)

5. The following frequencies in Section A are allocated for calling purposes:

- Channel No. 421 in the 4 MHz band;

- Channel No. 606 in the 6 MHz band;

- Channel No. 821 in the 8 MHz band;

- Channel No. 1221 in the 12 MHz band;

- Channel No. 1621 in the 16 MHz band;

- Channel No. 1806 in the 18 MHz band;

- Channel No. 2221 in the 22 MHz band;

- Channel No. 2510 in the 25 MHz band.

The remaining frequencies in Sections A, B, C-1 and C-2 are working frequencies.

5A. For the use of the carrier frequencies:

4 125 kHz (Channel No. 421)

6 215 kHz (Channel No. 606)

12 290 kHz (Channel No. 1221)

16 420 kHz (Channel No. 1621)

in Section A, by coast and ship stations for distress and safety purposes, see Article \bar{N} 38.

a) Maritime radiotelephone stations using single-sideband emissions shall operate only on the carrier frequencies shown in Sections A, B, C-1 and C-2 in conformity with the technical characteristics specified in Appendix 17. The upper sideband mode shall always be employed.

b) Stations employing the single-sideband mode shall use only class J3E emissions.

7. The channelling plan established in Section C-2 does not prejudice the rights of administrations to establish, and to notify assignments to stations in the maritime mobile service other than those using radiotelephony in the band 8 100 - 8 195 kHz, in conformity with the relevant provisions of these Regulations.

8. For the use and notification of channels Nos. 427, 428, 429, 607, 608, 832, 834, 835, 836, 1233 up to and including 1241, 1642 up to and including 1656, 1801 up to and including 1815, 2241 up to and including 2253 and 2501 up to and including 2510, see [Resolution No. ...].

No.		4 MH2	z Band	
nel N	Coast sta	ations	Ship s	tations
Channe1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
401	4357	4358.4	4065	4066.4
402	4360	4361.4	4068	4069.4
403	4363	4364.4	4071	4072.4
404	4366	4367.4	4074	4075.4
405	4369	4370.4	4077	4078.4
406	4372	4373.4	4080	4081.4
407	4375	4376.4	4083	4084.4
408	4378	4379.4	4086	4087.4
409	4381	4382.4	4089	4090.4
410	4384	4385.4	4092	4093.4
411	4387	4388.4	4095	4096.4
412	4390	4391.4	4098	4099.4
413	4393	4394.4	4101	4102.4
414	4396	4397.4	4104	4105.4
415	4399	4400.4	4107	4108.4
416	4402	4403.4	4110	4111.4
417	4405	4406.4	4113	4114.4
418	4408	4409.4	4116	4117.4
419	4411	4412.4	4119	4120.4
420	4414	4415.4	4122	4123.4
421*	4417 [*]	4418.4*	4125* 3	4126.4*
422	4420	4421.4	4128	4129.4
423	4423	4424.4	4131	4132.4
424	4426	4427.4	4134	4135.4
425	4429	4430.4	4137	4138.4
426	4432	4433.4	4140	4141.4
427	4435	4436.4	4143	4144.4
4272	4351	4352.4		
4281 2	4354	4355.4		
4291 2			-	-

- ¹ These coast station frequencies should be paired with a ship station frequency being a simplex frequency for ship and coast stations (see Section B) or a frequency from the band 4 000 - 4 063 kHz (see Section C1) to be selected by the administration concerned.
- ² See [Resolution No. ...].
- ³ For the conditions of use of the carrier frequency 4 125 kHz, see Nos. 2982, 4379 and 4380.
- * The frequencies followed by an asterisk are calling frequencies (see Nos. 4375 and 4376).

.vo	6 MHz Band								
	Coast sta	tions	Ship stations						
Channe 1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency					
601	6501	6502.4	6200	6201.4					
602	6504	6505.4	6203	6204.4					
603	6507	6508.4	6206	6207.4					
604	6510	6511.4	6209	6210.4					
605	6513	6514.4	6212	6213.4					
606*	6516*	6517.4*	6215* 4	6216.4*					
607 ²	6519	6520.4	6218	6219.4					
608 ²	6522	6523.4	6221	6222.4					

² See [Resolution No. ...].

4 For the conditions of use of the carrier frequency 6 215 kHz, see No. 2986.

* The frequencies followed by an asterisk are calling frequencies (see Nos. 4375 and 4376).

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.		8 MHz	Band	
lel No.	Coast sta	tions	Ship s	tations
Channe1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
801	8719	8720.4	8195	8196.4
802	8722	8723.4	8198	8199.4
803	8725	8726.4	8201	8202.4
804	8728	8729.4	8204	8205.4
805	8731	8732.4	8207	8208.4
806	8734	8735.4	8210	8211.4
807	8737	8738.4	8213	8214.4
808	8740	8741.4	8216	8217.4
809	8743	8744.4	8219	8220.4
810	8746	8747.4	8222	8223.4
811	8749	8750.4	8225	8226.4
812	8752	8753.4	8228	8229.4
813	8755	8756.4	8231	8232.4
814	. 8758	8759.4	8234	8235.4
815	8761	8762.4	8237	8238.4
816	8764	8765.4	8240	8241.4
817	8767	8768.4	8243	8244.4
818	8770	8771.4	8246	8247.4
819	8773	8774.4	8249	8250.4
820	8776	8777.4	8252	8253.4
821	8779	8780.4	8255	8256.4
822	8782	8783.4	8258	8259.4
823	8785	8786.4	8261	8262.4
824	8788	8789.4	8264	8265.4
825	8791	8792.4	8267	8268.4
826	8794	8795.4	8270	8271.4
827	8797	8798.4	8273	8274.4
828	8800	8801.4	8276	8277.4
829	8803	8804.4	8279	8280.4
830	8806	8807.4	8282	8283.4
831	8809	8810.4	8285	8286.4
8322	8812	8813.4	8288	8289.4
8335 2	8707	8708.4	-	-
8345 2	8710	8711.4	-	-
8355 2	8713	8714.4	-	-
8365 2	8716	8717.4	-	-

² See [Resolution No. ...].

⁵ Those coast frequencies should be paired with a ship station frequency being a simplex frequency for ships and coast stations (see Section B) or a frequency from the band 8 100 - 8 195 kHz (see Section C2) to be selected by the administration concerned.

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No.		12 MHz	: Band	
	Coast sta	tions	Ship s	tations
Channe1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1201	13077	13078.4	12230	12231.4
1202	13080	13081.4	12233	12234.4
1203	13083	13084.4	12236	12237.4
1204	13086	13087.4	12239	12240.4
1205	13089	13090.4	12242	12243.4
1206	13092	13093.4	12245	12246.4
1207	13095	13096.4	12248	12249.4
1208	13098	13099.4	12251	12252.4
1209	13101	13102.4	12254	12255.4
1210	13104	13105.4	12257	12258.4
1211	13107	13108.4	12260	12261.4
1212	13110	13111.4	12263	12264.4
1213	13113	13114.4	12266	12267.4
1214	13116	13117.4	12269	12270.4
1215	13119	13120.4	12272	12273.4
1216	13122	13123.4	12275	12276.4
1217	13125	13126.4	12278	12279.4
1218	13128	13129.4	12281	12282.4
1219	13131	13132.4	12284	12285.4
1220	13134	13135.4	12287	12288.4
1221	13137	13138.4	12290	12291.4
1222	13140	13141.4	12293	12294.4
1223	13143	13144.4	12296	12297.4
1224	13146	13147.4	12299	12300.4
1225	13149	13150.4	12302	12303.4
1226	13152	13153.4	12305	12306.4
1227	13155	13156.4	12308	12309.4
1228	13158	13159.4	12311	12312.4
122 9	13161	13162.4	12314	12315.4
1230	13164	13165.4	12317	12318.4
1231	13167	13168.4	12320	12321.4
1232	13170	13171.4	12323	12324.4
1233]	13173	13174.4	12326	12327.4
1234	13176	13177.4	12329	12330.4
1235	13179	13180.4	12332	12333.4
1236	13182	13183.4	12335	12336.4
1237 22	13185	13186.4	12338	12339.4
1238	13188	13189.4	12341	12342.4
1239	13191	13192.4	12344	12345.4
1240	13194	13195.4	12347	12348.4
1241	13197	13198.4	12350	12351.4

² See [Resolution No. ...].

Ño.	16 MHz Band						
	Coast sta	itions	Ship s	Ship stations			
Channe 1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency			
1601	17242	17243.4	16360	16361.4			
1602	17245	17246.4	16363	16364.4			
1603	17248	17249.4	16366	16367.4			
1604	17251	17252.4	16369	16370.4			
1605	17254	17255.4	16372	16373.4			
1606	17257	17258.4	16375	16376.4			
1607	17260	17261.4	16378	16379.4			
1608	17263	17264.4	16381	16382.4			
1609	17266	17267.4	16384	16385.4			
1610	17269	17270.4	16387	16388.4			
1611	17272	17273.4	16390	16391.4			
1612	17275	17276.4	16393	16394.4			
1613	17278	17279.4	16396	16397.4			
1614	17281	17282.4	16399	16400.4			
1615	17284	17285.4	16402	16403.4			
1616	17287	17288.4	16405	16406.4			
1617	17290	17291.4	16408	16409.4			
1618	17293	17294.4	16411	16412.4			
1619	17296	17297.4	16414	16415.4			
1620	17299	17300.4	16417	16418.4			
1621	17302	17303.4	16420	16421.4			
1622	17305	17306.4	16423	16424.4			
1623	17308	17309.4	16426	16427.4			
1624	17311	17312.4	16429	16430.4			
1625	17314	17315.4	16432	16433.4			
1626	17317	17318.4	16435	16436.4			
1627	17320	17321.4	16438	16439.4			
1628	17323	17324.4	16441	16442.4			
1629	17326	17327.4	16444	16445.4			
1630	17329	17330.4	16447	16448.4			
1631	17332	17333.4	16450	16451.4			
1632	17335	17336.4	16453	16454.4			
1633	17338	17339.4	16456	16457.4			
1634	17341	17342.4	16459	16460.4			
1635	17344	17345.4	16462	16463.4			
1636	17347	17348.4	16465	16466.4			
1637	17350	17351.4	16468	16469.4			
1638	17353	17354.4	16471	16472.4			
1639	17356	17357.4	16474	16475.4			
1640	17359	17360.4	16477	16478.4			

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No.	16 MHz Band (cont.)					
i i i	Coast sta	tions	Ship s	tations		
Channe1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		
1641	17362	17363.4	16480	16481.4		
1642	17365	17366.4	16483	16484.4		
1643	17368	17369.4	16486	16487.4		
1644	17371	17372.4	16489	16490.4		
1645	17374	17375.4	16492	16493.4		
1646	17377	17378.4	16495	16496.4		
1647	17380	17381.4	16498	16499.4		
1648	17383	17384.4	16501	16502.4		
2 ح 1649	17386	17387.4	16504	16505.4		
1650	17389	17390.4	16507	16508.4		
1651	17392	17393.4	16510	16511.4		
1652	17395	17396.4	16513	16514.4		
1653	17398	17399.4	16516	16517.4		
1654	17401	17402.4	16519	16520.4		
1655	17404	17405.4	16522	16523.4		
1656	17407	17408.4	16525	16526.4		

² See [Resolution No. ...].

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No.	18/19 MHz Band					
i	Coast sta	tions	Ship stations			
Channe 1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		
1801]	19755	19756.4	18780	18781.4		
1802	19758	19759.4	18783	18784.4		
1803	19761	19762.4	18786	18787.4		
1804	19764	19765.4	18789	18790.4		
1805	19767	19768.4	18792	18793.4		
1806	19770	19771.4	18795	18796.4		
1807	19773	19774.4	18798	18799.4		
1808 2	19776	19777.4	18801	18802.4		
1809	19779	19780.4	18804	18805.4		
1810	19782	19783.4	18807	18808.4		
1811	19785	19786.4	18810	18811.4		
1812	19788	19789.4	18813	18814.4		
1813	19791	19792.4	18816	18817.4		
1814	19794	19795.4	18819	18820.4		
1815	19797	19798.4	18822	18823.4		

² See [Resolution No. ...].

No.	22 MHz Band					
	Coast sta	tions	Ship s	tations		
Channel	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		
2201	22696	22697.4	22000	22001.4		
2202	22699	22700.4	22003	22004.4		
2203	22702	22703.4	22006	22007.4		
2204	22705	22706.4	22009	22010.4		
2205	22708	22709.4	22012	22013.4		
2206	22711	22712.4	22015	22016.4		
2207	22714	22715.4	22018	22019.4		
2208	22717	22718.4	22021	22022.4		
2209	22720	22721.4	22024	22025.4		
2210	22723	22724.4	22027	22028.4		
2211	22726	22727.4	22030	22031.4		
2212	22729	22730.4	22033	22034.4		
2213	22732	22733.4	22036	22037.4		
2214	22735	22736.4	22039	22040.4		
2215	22738	22739.4	22042	22043.4		
2216	22741	22742.4	22045	22046.4		
2217	22744	22745.4	22048	22049.4		
2218	22747	22748.4	22051	22052.4		
2219	22750	22751.4	22054	22055.4		
2220	22753	22754.4	22057	22058.4		
2221	22756	22757.4	22060	22061.4		
2222	22759	22760.4	22063	22064.4		
2223	22762	22763.4	22066	22067.4		
2224	22765	22766.4	22069	22070.4		
2225	22768	22769.4	22072	22073.4		
2226	22771	22772.4	22075	22076.4		
2227	22774	22775.4	22078	22079.4		
2228	22777	22778.4	22081	22082.4		
2229	22780	22781.4	22084	22085.4		
2230	22783	22784.4	22087	22088.4		
2231	22786	22787.4	22090	22091.4		
2232	22789	22790.4	22093	22094.4		
2233	22792	22793.4	22096	22097.4		
2234	22795	22796.4	22099	22100.4		
2235	22798	22799.4	22102	22103.4		

No.	22 MHz Band (cont.)					
	Coast sta	tions	Ship stations			
Channel	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		
2236	22801	22802.4	22105	22106.4		
2237	22804	22805.4	22108	22109.4		
2238	22807	22808.4	22111	22112.4		
2239	22810	22811.4	22114	22115.4		
2240	22813	22814.4	22117	22118.4		
2241]	22816	22817.4	22120	22121.4		
2242	22819	22820.4	22123	22124.4		
2243	22822	22823.4	22126	22127.4		
2244	22825	22826.4	22129	22130.4		
2245	22828	22829.4	22132	22133.4		
2246	22831	22832.4	22135	22136.4		
2247 2	22834	22835.4	22138	22139.4		
2248	22837	22838.4	22141	22142.4		
2249	22840	22841.4	22144	22145.4		
2250	22843	22844.4	22147	22148.4		
2251	22846	22847.4	22150	22151.4		
2252	2284 9	22850.4	22153	22154.4		
2253	22852	22853.4	22156	22157.4		

2 See [Resolution No. ...].

	25/26 MHz Band					
lel No.	Coast stations		Ship s	tations		
Channe1	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		
2501 2502 2503 2504 2505	26145 26148 26151 26154 26157	26146.4 26149.4 26152.4 26155.4 26158.4	25070 25073 25076 25079 25082	25071.4 25074.4 25077.4 25080.4 25083.4		
2 2506 2507 2508 2509 2510	26160 26163 26166 26169 26172	26161.4 26164.4 26167.4 26170.4 26173.4	25085 25088 25091 25094 25097	25086.4 25089.4 25092.4 25095.4 25098.4		

² See [Resolution No. ...].

SECTION B

Table of Single-Sideband Transmitting Frequencies for Simplex (Single-Frequency) Operation and for Intership Cross-Band (Two-Frequency) Operation (in kHz)

4 MHz	Band ¹	6 M	iz Band	8 MH:	z Band ²	12 MH	z Band	16 MH	z Band	18/19	MHz Band	22 MH:	z Band	25/26 1	MHz Band
Carrier fre- quency	Assigned fre- quency	fre-	fre-	fre-	fre-		Assigned fre - quency	fre-	fre-	fre-	fre-	fre-	fre-		Assigned fr e- quency
4 146 4 149	4 147.4 4 150.4		6 225.4 6 228.4 6 231.4	8 297	8 295.4 8 298.4	12 356 12 359 12 362	12 354.4 12 357.4 12 360.4 12 363.4 12 366.4	16 531 16 534 16 537 16 540 16 543	16 529.4 16 532.4 16 535.4 16 538.4 16 541.4 16 544.4 16 547.4	18 828 18 831 18 834 18 837 18 840	18 826.4 18 829.4 18 832.4 18 835.4 18 838.4 18 841.4 18 844.4	22 162 22 165 22 165 22 168 22 171 22 174	22 172.4	25 103 25 106 25 109 25 112 25 115	25 101.4 25 104.4 25 107.4 25 110.4 25 113.4 25 113.4 25 116.4 25 119.4

(See paragraph 4 of this Appendix)

1) Those frequencies may be used for duplex operation with coast stations operating in Channels 428 and 429 (see Section A).

2) Those frequencies may be used for duplex operation with coast stations operating on Channels 833 up to and including 836 (see Section A).

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SECTION C-1

Table of Single-Sideband Transmitting Frequencies (in kHz) for Ship Stations in the Band 4 000 - 4 063 kHz Shared with the Fixed Service

The frequencies in this Section may be used:

- for supplementing ship-to-shore channels for duplex operation in Section A;
- for intership simplex (single-frequency) and cross-band operation;
- for cross-band working with coast stations on channels in Section C-2;
- for duplex operation with coast stations working in the band 4 438 - 4 650 kHz.

Channel No.	Carrier Frequency	Assigned Frequency	Channel No.	Carrier Frequency	Assigned Frequency
1	4 000 *	4 001.4 *	12	4 033	4 034.4
2	4 003 *	4 004.4 *	13	4 036	4 037.4
3	4 006	4 007.4	14	4 039	4 040.4
4	4 009	4 010.4	15	4 042	4 043.4
5	4 012	4 013.4	16	4 045	4 046.4
6	4 015	4 016.4	17	4 048	4 049.4
7	4 018	4 019.4	18	4 051	4 052.4
8	4 021	4 022.4	19	4 054	4 055.4
9	4 024	4 025.4	20	4 057	4 058.4
10	4 027	4 028.4	21	4 060	4 061.4
11	4 030	4 031.4			

- for duplex operation with Channels Nos. 428 and 429.

* Administrations are requested to urge ship stations under their jurisdiction to refrain from using the band 4000 - 4005 kHz when navigating in Region 3 (see also No. 516).

SECTION C-2

Table of Single-Sideband Transmitting Frequencies (in kHz) for Ship and Coast Stations in the Band 8 100 - 8 195 kHz Shared with the Fixed Service

The frequencies in this Section may be used:

- for supplementing ship-to-shore and shore-to-ship channels for duplex operation in Section A;
- for intership simplex (single frequency) and cross-band operation;
- for cross-band working with ship stations on channels in Section C-1;
- for ship-to-shore or shore-to-ship simplex operation;
- for duplex operation with Channel Nos. 833, 834, 835 and 836.

Channel No.	Carrier Frequency	Assigned Frequency	Channel No.	Carrier Frequency	Assigned Frequency
1	8 101	8 102.4	17	8 1 4 9	8 150.4
2	8 104	8 105.4	18	8 152	8 153.4
3	8 107	8 108.4	19	8 155	8 156.4
4	8 1 1 0	8 111.4	20	8 158	8 159.4
5	8 113	8 1 1 4.4	21	8 161	8 162.4
6	8 1 1 6	8 117.4	22	8 164	8 165.4
7	8 1 1 9	8 120.4	23	8 167	8 168.4
8	8 1 2 2	8 123.4	24	8 170	8 171.4
9	8 125	8 126.4	25	8 173	8 174.4
10	8 1 2 8	8 129.4	26	8 176	8 177.4
11	8 131	8 132.4	27	8 179	8 180.4
12	8 134	8 135.4	28	8 182	8 183.4
13	8 137	8 138.4	29	8 185	8 186.4
14	8 140	8 141.4	30	8 188	8 189.4
15	8 143	8 144.4	31	8 191	8 192.4
16	8 146	8 147.4			

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ANNEX 5

APPENDIX 32(Rev.)

Channelling of the Maritime Mobile Bands Between 4 000 kHz and 23-000 kHz Used for Narrow-Band Direct-Printing Telegraphy 27 500 and Data Systems (Paired Frequencies)

(See Article 60 and Resolution 300)

. د در مرد سرور .

Each coast station which uses paired frequencies is assigned one or more frequency pairs from the following series; each pair consists of a transmitting and a receiving frequency.

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ANNEX 5

Table of Frequencies for Two-Frequency Operation by Coast Stations (kHz)

SERIES	4 MHz BA	AND ¹)
No.	TRANSMIT	RECEIVE
1	4340.5	4172.5
2	4341	4173
3	4341.5	4173.5
4	4342	4174
5	4342.5	4174.5
6	4343	4175
7	4343.5	4175.5
8	4344	4176
9	4344.5	4176.5
10	4345	4177
11	4345.5	4178
12	4346	4178.5
13	4346.5	4179
14	4347	4179.5
15	4347.5	4180
16	4348	4180.5
17	4348.5	4181
18	4349	4181.5

1) All coast station receiving frequencies may be used by ship stations for transmitting AlA and AlB Morse telgraphy (working).

SERI	ES	6 MHz BAND		
No	b .	TRANSMIT	RECEIVE	
1		6483	6263	
2		6483.5	6263.5	
3		6484	6264	
4		6484.5	6264.5	
5		6485	6265	
6		6485.5	6265.5	
7		6486	6266	
8		6486.5	6266.5	
9		6487	6267	
10		6487.5	6267.5	
11		6488	6268.5	
12		6488.5	6269	
13		6489	6269.5	
14		6489.5	6270	
15		6490	6270.5	
16		6490.5	6271	
17		6491	6271.5	
18		6491.5	6272	
19		6492	6272.5	
20	i	6492.5	6273	
21		6493	6273.5	
22		6493.5	6274	
23		6494	6274.5	
24		6494.5	6275	
25		6495	6275.5	
26		6495.5	6281	
27		6496	6281.5	
28	2)	6496.5	6282	
29		6497	6282.5	
30		6497.5	6283	
31		6498	6283.5	
32		6498.5	6284	
33		6499	6284.5	

2) The coast station receiving frequencies of channels Nos. 24 up to and including 33 may be used by ship stations for transmitting A1A and A1B Morse telegraphy (working).

SERIES	8 MHz BA	AND
No.	TRANSMIT	RECEIVE
1	8686	8377
2	8686.5	8377.5
3 4	8687	8378
	8687.5	8378.5
5	8688	8379
6	8688.5	8379.5
7	8689	8380
8	8689.5	8380.5
9	8690	8381
10	8690.5	8381.5
11	8691	8382
12	8691.5	8382.5
13	8692	8383
14	8692.5	8383.5
15	8693	8384
16	8693.5	8384 .5
17	8694	8385
18	8694.5	8385.5
19	8695	.8386
20	8695.5	8386.5
21	8696	8387
22	8696.5	8387.5
23	8697	8388
24	8697.5	8388.5
25	8698	8389
26	8698.5	8389.5
27	8699	8390
28]	8699.5	8390.5
29	8700	8391
30	8700.5	8391.5
31	8701	8392
32	8701.5	8392.5
33	8702	8393
34 3)	8702.5	8393.5
35	8703	8394
36	8703.5	8394.5
37	8704	8395
38	8704.5	8395.5
39 _	8705	8396

3) The coast station receiving frequencies of channels Nos. 28 up to and including 39 may be used by ship stations for transmitting A1A and A1B Morse telegraphy (working).

SERIES	12 MHz BAND ⁴⁾	
No.	TRANSMIT	RECEIVE
1 2 3 4 5	12998 12998.5 12999 12999.5 13000	12477 12477.5 12478 12478.5 12478.5 12479
6	13000.5	12479.5
7	13001	12480
8	13001.5	12480.5
9	13002	12481
10	13002.5	12481.5
11	13003	12482
12	13003.5	12482.5
13	13004	12483
14	13004.5	12483.5
15	13005	12484
16	13005.5	12484.5
17	13006	12485
18	13006.5	12485.5
19	13007	12486
20	13007.5	12486.5
21	13008	12487
22	13008.5	12487.5
23	13009	12488
24	13009.5	12488.5
25	13010	12489
26	13010.5	12489.5
27	13011	12490
28	13011.5	12490.5
29	13012	12491
30	13012.5	12491.5
31	13013	12492
32	13013.5	12492.5
33	13014	12493
34	13014.5	12493.5
35	13015	12494
36	13015.5	12494.5
37	13016	12495
38	13016.5	12495.5
39	13017	12496
40	13017.5	12496.5
41	13018	12497
42	13018.5	12497.5
43	13019	12498

SERIES	12 MHz BA	AND(Cont.)
No.	TRANSMIT	RECEIVE
44	13019.5	12498.5
45	13020	12499
46 47	13020.5 13021 13021.5	12499.5 12500 12500.5
48 49 50	13022 13022 •5	12500.5 12501 12501.5
51	13023	12502
52	13023.5	12502.5
53	13024	12503
54	13024.5	12503.5
55	13025	12504
56	13025.5	12504.5
57	13026	12505
58	13026.5	12505.5
59	13027	12506
60	13027.5	12506.5
61	13028	12507
62	13028.5	12507.5
63	13029	12508
64	13029.5	12508.5
65	13030	12509
66	13030.5	12509.5
67	13031	12510
68	13031.5	12510.5
69	13032	12511
70	13032.5	12511.5
71	13033	12512
72	13033.5	12512.5
73	13034	12513
74	13034.5	12513.5
75	13035	12514
76	13035.5	12514.5
77	13036	12515
78	13036.5	12515.5
79	13037	12516
80	13037.5	12516.5
81	13038	12517
82	13038.5	12517.5
83	13039	12518
84	13039.5	12518.5
85	13040	12519
86	13040 . 5	12519.5
87	13041	12520.5

SERIES	12 MHz BA	ND(Cont.)
No.	TRANSMIT	RECEIVE
88	13041.5	12521
89	13042	12521.5
90	13042.5	12522
91	13043	12522.5
92	13043.5	12523
93	13044	12523.5
94 ·	13044.5	12524
95	13045	12524.5
96	13045.5	12525
97	13046	12525.5
98	13046.5	12526
99	13047	12526.5
100	13047.5	12527
101	13048	12527.5
102	13048.5	12528
103	13049	12528.5
104	13049.5	1252 9
105	13050	12529.5
106	13050.5	12530
107	13051	12530.5
108	13051.5	12531
109	13052	12531.5
110	13052.5	12532
111	13053	12532.5
112	13053.5	12533
113	13054	12533.5
114	13054.5	12534
115	13055	12534.5
116	13055.5	12535
117	13056	12535.5
118	13056.5	12536
119	13057	12536.5
120	13057.5	12537
121	13058	12537.5
122	13058.5	12538
123	13059	12538.5
124	13059.5	12539
125	13060	12539.5
126	13060.5	12540
127	13061	12540.5
128	13061.5	12541
129	13062	12541.5
130	13062.5	12542
)	

SERIES	12 MHz BAND(Cont.)	
No.	TRANSMIT	RECEIVE
131	13063	12542.5
132	13063.5	12543
133	13064	12543.5
134	13064.5	12544
135	13065	12544.5
136	13065.5	12545
137	13066	12545.5
138	13066.5	12546
139	13067	12546.5
140	13067.5	12547
141	13068	12547.5
142	13068.5	12548
143	13069	12548.5
144	13069.5	12549
145	13070	12549.5
146	13070.5	12555
147	13071	12555.5
148	13071.5	12556
149	13072	12556.5
150	13072.5	12557
151	13073	12557.5
152	13073.5	12558
153	13074	12558.5
154	13074.5	12559
155	13075	12559.5
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4) All coast station receiving frequencies of channels Nos. 58 up to and including 155 may be used by ship stations for transmitting AlA and AlB Morse telegraphy (working).

SERIES	16 MHz BAND ⁵⁾	
No.	TRANSMIT	RECEIVE
1	17144.5	16683.5
2	17145	16684
3	17145.5	16684.5
4	17146	16685
5	17146.5	16685.5
6	17147	16686
7	17147.5	16686.5
8	17148	16687
9	17148.5	16687.5
10	17149	16688
11	17149.5	16688.5
12	17150	16689
13	17150.5	16689.5
14	17151	16690
15	17151.5	16690.5
16	17152	16691
17	17152.5	16691.5
18	17153	16692
19	17153.5	16692.5
20	17154	16693
21	17154.5	16693.5
22	17155	16694
23	17155.5	16694.5
24	17156	16695.5
25	17156.5	16696
26	17157	16696.5
27	17157.5	16697
28	17158	16697.5
29	17158.5	16698
30	17158.5	16698.5
31	17159.5	16699
32	17160	16699.5
33	17160.5	16700
34	17161	16700.5
35	17161.5	16701
36	17162	16701.5
37	17162.5	16702
38	17163	16702.5
39	17163.5	16703
40	17164	16703.5
41	17164.5	16704
42	17165	16704.5
43	17165.5	16705
44	17166	16705.5

SERIES	16 MHz BAND(Cont.)	
No.	TRANSMIT	RECEIVE
45	17166.5	16706
46	17167	16706.5
47	17167.5	16707
48	17168	16707.5
49	17168.5	16708
50	17169	16708.5
51	17169.5	16709
52	4 17170	16709.5
53	17170.5	16710
54	17171	16710.5
55	17171.5	16711
56	17172	16711.5
57	17172.5	16712
58	17173	16712.5
59	17173.5	16713
60	17174	16713.5
61	17174.5	16714
62	17175	16714.5
63	17175.5	16715
64	17176	16715.5
65	17176.5	16716
66	17177	16716.5
67	17177.5	16717
68	17178	16717.5
69	17178.5	16718
70	17179	16718.5
71	17179.5	16719
72	17180	16719.5
73	17180.5	16720
74	17181	16720.5
75	17181.5	16721
76	17182	16721.5
77	17182.5	16722
78	17183	16722.5
79	17183.5	16723
80	17184	16723.5
81	17184.5	16724
82	17185	16724.5
83	17185.5	16725
84	17186	16725.5
85	17186.5	16726
86	17187	16726.5
87	17187.5	16727
88	17188	16727.5
89	17188.5	16728

SERIES	16 MHz BAND(Cont.)	
No.	TRANSMIT	RECEIVE
90	17189	16728.5
91	17189.5	16729
92	17190	16729.5
93 ·	17190.5	16730
94	17191	16730.5
95	17191.5	16731
96	17192	16731.5
97	17192.5	16732
98	17193	16732.5
. 99	17193.5	16733
100	17194	16733.5
101	17194.5	16739
102	17195	16739.5
103	17195.5	16740
104	17196	16740.5
105	17196.5	16741
106	17197	16741.5
107	17197.5	16742
108	17198	16742.5
109	17198.5	16743
110	17199	16743.5
111	17199.5	16744
112	17200	16744.5
113	17200.5	16745
114	17201	16745.5
115	17201.5	16746
116	17202	16746.5
117	17202.5	16747
118	17203	16747.5
119	17203.5	16748
120	17204	16748.5
121	17204.5	16749
122	17205	16749.5
123	17205.5	16750
124	17206	16750.5
125	17206.5	16751
126	17207	16751.5
127	17207.5	16752
128	17208	16752.5
129	17208.5	16753
130	17209	16753.5
131	17209.5	16754
132	17210	16754.5
133	17210.5	16755
134	17211	16755.5

SERIES	16 MHz BAND(Cont.)	
No.	TRANSMIT	RECEIVE
135	17211.5	16756
136 137	17212 17212.5	16756.5 16757
138	17213	16757.5
139	17213.5	16758
140	17214	16758.5
141	17214.5	16759
142	17215	16759.5
143	17215.5	16760
144	17216 17216.5	16760.5
145		16761
146	17217	16761.5
147	17217.5	16762
148 149	17218 17218.5	16762.5 16763
150	17218.5	16763.5
151	17219.5	16764
152 153	17220 17220.5	16764.5
153	17220.5	16765 16765.5
155	17221.5	16766
156	17222 17222.5	16766.5
157 158	17223	16767 16767.5
159	17223.5	16768
160	17224	16768.5
161 162	17224.5 17225	16769 16769.5
163	17225.5	16770
164	17226	16770.5
165	17226.5	16771
166	17227	16771.5
167	17227.5	16772
168	17228	16772.5
169	17228.5	16773
170	17229	16773.5
171	17229.5	16774
172	17230	16774.5
173	17230.5	16775
174 175	17231 17231.5	16775.5
1		16776
176	17232	16776.5
177	17232.5	16777
178	17233	16777.5
ļ		

SERIES	16 MHz BAND(Cont.)			
No.	TRANSMIT	RECEIVE		
179	17233.5	16778		
180	17234	16778.5		
181	17234.5	16779		
182	17235	16779.5		
183	17235.5	16780		
184	17236	16780.5		
185	17236.5	16781		
186	17237	16781.5		
187	17237.5	16782		
188	17238	16782.5		
189	17238.5	16783		
190	17239	16783.5		
191	17239.5	16784		
192	17240	16784.5		

5) The coast station receiving frequencies of channels Nos. 70 up to and including 192 may be used **by shi**p stations for Morse telegraphy (working).

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SERIES	18/19 MHz	z BAND
No.	TRANSMIT	RECEIVE
1	19731	18870.5
2	19731.5	18871
2 3	19732	18871.5
4	19732.5	18872
5	19733	18872.5
6	19733.5	18873
7	19734	18873.5
8	19734.5	18874
9	19735	18874.5
10	19735.5	18875
11	19736	18875.5
12	19736.5	18876
13	19737	18876.5
14	19737.5	18877
15	19738	18877.5
16	19738.5	18878
17	19739	18878.5
18	19739.5	18879
19	19740	18879.5
20	19740.5	18880
21	19741	18880.5
22	19741.5	18881
23	19742	18881.5
24	19742.5	18882
25	19743	18882.5
26	19743.5	18883
27	19744	18883.5
28	19744.5	18884
29	19745	18884.5
30	19745.5	18885
31	⁻ 19746	18885.5
32	19746.5	18886
33	19747	18886.5
34	19747.5	18887
35	19748	18887.5
36	19748.5	18888
37	19749	18888.5
38	19749.5	18889
39 40	19750 19750.5	18889.5 18890
40		_ 10070
41	19751	18890.5
42	19751.5	18891
43	19752	18891.5
44	19752.5	18892
45	19753	18892.5

SERIES	22 MHz BAND ⁶)				
No.	TRANSMIT	RECEIVE			
1	22627	22284.5			
2	22627.5	22285			
3	22628	22285.5			
4	22628.5	22286			
5	22629	22286.5			
6	22629.5	22287			
7	22630	22287.5			
8	22630.5	22288			
9	22631	22288.5			
10	22631.5	22289			
11	22632	22289.5			
12	22632.5	22290			
13	22633	22290.5			
14	22633.5	22291			
15	22634	22291.5			
16	22634.5	22292			
17	22635	22292.5			
18	22635.5	22293			
19	22636	22293.5			
20	22636.5	22294			
21	22637	22294.5			
22	22637.5	22295			
23	22638	22295.5			
24	22638.5	22296			
25	22639	22296.5			
26	22639.5	22297			
27	22640	22297.5			
28	22640.5	22298			
29	22641	22298.5			
30	22641.5	22299			
31	22642	22299.5			
32	22642.5	22300			
33	22643	22300.5			
34	22643.5	22301			
35	22644	22301.5			
36	22644.5	22302			
37	22645	22302.5			
38	22645.5	22303			
39	22646	22303.5			
40	22646.5	22304			
41	22647	22304.5			
42	22647.5	22305			
43	22648	22305.5			
44	22648.5	22306			
45	22649	22306.5			
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SERIES	22 MHz BA	AND(Cont.)
No.	TRANSMIT	RECEIVE
46	22649.5	22307
47	22650	22307.5
48	22650.5	22308
49	22651	22308.5
50	22651.5	22309
51	22652	22309.5
52	22652.5	22310
53	22653	22310.5
54	22653.5	22311
55	22654	22311.5
56	22654.5	22312
57	22655	22312.5
58	22655.5	22313
59	22656	22313.5
60	22656.5	22314
61	22657	22314.5
62	22657.5	22315
63	22658	22315.5
64	22658.5	22316
65	22659	22316.5
66	22659.5	22317
67	22660	22317.5
68	22660.5	22318
69	22661	22318.5
70	22661.5	22319
71	22662	22319.5
72	22662.5	22320
73	22663	22320.5
74	22663.5	22321
75	22664	22321.5
76	22664.5	22322
77	22665	22322.5
78	22665.5	22323
79	22666	22323.5
80	22666.5	22324
81	22667	22324.5
82	22667.5	22325
83	22668	22325.5
84	22668.5	22326
85	22669	22326.5
86	22669.5	22327
87	22670	22327.5
88	22670.5	22328
89	22671	22328.5
90	22671.5	22329

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SERIES	22 MHz BA	AND(Cont.)
No.	TRANSMIT	RECEIVE
91	22672	22329.5
92	22672.5	22330
93	22673	22330.5
94	22673.5	22331
95	22674	22331.5
96	22674.5	22332
97	22675	22332.5
98	22675.5	22333
99	22676	22333.5
100	22676.5	22334
101	22677	22334.5
102	22677.5	22335
103	22678	22335.5
104	22678.5	22336
105	22679	22336.5
106	22679.5	22337
107	22680	22337.5
108	22680.5	22338
109	22681	22338.5
110	22681.5	22339
111	22682	22339.5
112	22682.5	22340
113	22683	22340.5
114 115	22683.5	22341
115	22684	22341.5
116	22684.5	22342
117	22685	22342.5
118	22685.5	22343
119	22686	22343.5
120	22686.5	22344
121	22687	22344.5
122	22687.5	22345
123	22688	22345.5
124	22688.5	22346
125	22689	22346.5
126	22689.5	22347
127	22690	22347.5
128	22690.5	22348
129	22691	22348.5
130	22691.5	22349
131	22692	22349.5
132	22692.5	22350
133	22693	22350.5
134	22693.5	22351
135	22694	22351.5

6) The coast station receiving frequencies of channels Nos. 68 up to and including 135 may be used for transmitting by ship stations for Morse telegraphy (working).

SERIES	25/26 MHz	BAND
No.	TRANSMIT	RECEIVE
1	26123	25173
2	26124	25173.5
3	26124.5	25174
4	26125	25174.5
5	26125.5	25175
6	26126	25175.5
7	26126.5	25176
8	26127	25176.5
9	26127.5	25177
10	26128	25177.5
11	26128.5	25178
12	26129	25178.5
13	26129.5	25179
14	26130	25179.5
15	26130.5	25180
16	26131	25180.5
17	26131.5	25181
18	26132	25181.5
19	26132.5	25182
20	26133	25182.5
21	26133.5	25183
22	26134	25183.5
23	26134.5	25184
24	26135	25184.5
25	26135.5	25185
26	26136	25185.5
27	26136.5	25186
28	26137	25186.5
29	26137.5	25187
30	26138	25187.5
31	26138.5	25188
32	26139	25188.5
33	26139.5	25189
34	26140	25189.5
35	26140.5	25190
36	26141	25190.5
37	26141.5	25191
38	26142	25191.5
39	26142.5	25192
40	26143	25192.5

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ANNEX 6

APPENDIX 33(Rev.)

Channelling of the Maritime Mobile Bands Between 4 000 kHz and 26 175 kHz used for Narrow-Band Direct-Printing Telegraphy and Data Transmission (Non-Paired Frequencies)

(See Article 60 and Resolution No. 301)

1. One or more frequencies are assigned to each ship station as transmitting frequencies.

2. All frequencies in this Appendix may also be used by ship stations for transmitting AlA and AlB Morse telegraphy (working).

3. All frequencies appearing in this Appendix may be used for NBDP duplex operation.

The corresponding coast station frequencies should be selected by the administration concerned from the sub-bands for coast station wideband telegraphy. AlA and AlB Morse telegraphy, facsimile, special and data transmission systems and directprinting telegraphy systems.

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	Frequency Bands							
	4 MHz	6 MHz	8 MHz	12 MHz	16 MHz	18/19 MHz	22 MHz	25/26 MHz
1 2 3 4 5	4202.5 4203 4203.5 4204 4204.5	6300.5 6301 6301.5 6302 6302.5	8396.5 8397 8397.5 8398 8398.5	12560 12560.5 12561 12561.5 12562	16785 16785.5 16786 16786.5 16787	18893 18893.5 18894 18894.5 18895	22352 22352.5 22353 22353.5 22354	25193 25193.5 25194 25194.5 25195
6 7 8 9 10	4205 4205.5 4206 4206.5 4207	6303 6303.5 6304 6304.5 6305	8399 8399.5 8400 8400.5 8401	12562.5 12563 12563.5 12564 12564.5	16787.5 16788 16788.5 16789 16789.5	18895.5 18896 18896.5 18897 18897.5	22354.5 22355 22355.5 22356 22356.5	25195.5 25196 25196.5 25197 25197.5
11 12 13 14 15		6305.5 6306 6306.5 6307 6307.5	8401.5 8402 8402.5 8403 8403.5	12565 12565.5 12566 12566.5 12567	16790 16790.5 16791 16791.5 16792	18898	22357 22357.5 22358 22358.5 22359	25198 25198.5 25199 25199.5 25200
16 17 18 19 20		6308 6308.5 6309 6309.5 6310	8404 8404.5 8405 8405.5 8406	12567.5 12568 12568.5 12569 12569.5	16792.5 16793 16793.5 16794 16794.5		22359.5 22360 22360.5 22361 22361.5	25200.5 25201 25201.5 25202 25202.5
21 22 23 24 25		6310.5 6311 6311.5	8406.5 8407 8407.5 8408 8408.5	12570 12570.5 12571 12571.5 12572	16795 16795.5 16796 16796.5 16797		22362 22362.5 22363 22363.5 22364	25203 25203 .5 25204 25204 .5 25205
26 27 28 29 30			8409 8409.5 8410 8410.5 8411	12572.5 12573 12573.5 12574 12574.5	16797.5 16798 16798.5 16799 16799.5		22364.5 22365 22365.5 22366 22366.5	25205.5 25206 25206.5 25207 25207.5
31 32 33 34 35			8411.5 8412 8412.5 8413 8413.5	12575 12575.5 12576 12576.5	16800 16800.5 16801 16801.5 16802		22367 22367.5 22368 22368.5 22369	25208
36 37 38 39 40			8414		16802.5 16803 16803.5 16804		22369.5 22370 22370.5 22371 22371.5	
41 42 43 44 45							22372 22372.5 22373 22373.5 22374	•
46	i						22374.5	

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APPENDIX 34 (Rev.)

Table of Calling Frequencies Assignable to Ship Stations for A1A Morse Telegraphy at Speeds Not Exceeding 40 Bauds*

(See Article 60 and Resolution No. 312) (kHz)

GROUP	CHANNEL	4 MHz	6 MHz	8 MHz	12 MHz	16 MHz	22 MHz	25/26 MHz
	SERIES	BAND	BAND	BAND	BAND	BAND	BAND	BAND
I	1 2	4 182 4 182.5	6 277 6 277.5	8 366 8 366.5	12 550 12 550.5	16 734 16 734.5	22 279.5 22 280	Channel A 25 171.5 Groups I and II
Common Channel	3	4 184	6 276	8 368	12 552	16 736	22 280.5	Common Channel C
Common Channel	4	4 184.5	6 276.5	8 369	12 553.5	16 738	22 281	25 172
II	5 6	4 183 4 183.5	6 278 6 278.5	8 367 8 367.5	12 551 12 551.5	16 735 16 735.5	22 281.5 22 282	Channel A 25 171.5 Groups I and II
III	7	4 185	6 279	8 368.5	12 552.5	16 736.5	22 282.5	Channel B
	8	4 185.5	6 279.5	8 369.5	12 553	16 737	22 283	25 172.5
IV	9 10	4 186 4 186.5	6 280 6 280.5	8 370 8 370.5	12 554 12 554.5	16 737.5 16 738.5	22.283.5 22 284	Groups III and IV

* Channel width in every band: 0.5 kHz

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Examples of subdivision of channels (centre frequencies are underlined)

4 181.8 4 181.9 <u>4 182</u> 4 182.1 4 182.2	6 276.8 6 276.9 <u>6 277</u> 6 277.1 6 277.2	8 365.8 8 365.9 <u>8 366</u> 8 366.1 8 366.2	12 549.8 12 549.9 <u>12 550</u> 12 550.1 12 550.2	$ \begin{array}{c} 16 733.8 \\ 16 733.9 \\ \underline{16 734} \\ 16 734.1 \\ 16 734.2 \\ \end{array} $	22 279.3 22 279.4 22 279.5 22 279.6 22 279.7	$\begin{array}{c} 25 \ 171.3 \\ 25 \ 171.4 \\ \underline{25 \ 171.5} \\ 25 \ 171.6 \\ 25.171.7 \end{array}$
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$(\mathbf{r}_{\mathbf{x}},\mathbf{r}_{\mathbf{y}})$		к. 17. т.	f		100 - 1 51 - 17 S - 1	567 9 - 55 597 9 - 555	
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Notes

- 1. Only the common channels in the 4, 6, 8, 12 and 16 MHz for AlA Morse telegraphy are harmonically related.
- 2. Administrations should assign the frequencies as they appear in this Appendix only to ship stations equipped with crystal controlled oscillators.
- 3. However, administrations may subdivide each appropriate group channel and common channel into specific calling frequencies on every full 100 Hz in the channel and assign these discrete frequencies to ships with synthesized transmitters.
- 4. Administrations should avoid as far as possible, assigning the two frequencies at +100 Hz from the harmonically related common channel.
- 5. In the 22 MHz and 25 MHz bands the channels are not harmonically related to those in the 4 to 16 MHz bands. However, the principle of subdivision of channels into specific calling frequencies on 100 Hz applies.

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ANNEX 8

APPENDIX 35(Rev.)

Table of Working Frequencies, in kHz, Assignable to Ship Stations for A1A Morse Telegraphy at Speeds Not Exceeding 40 Bauds

(See also Note e) to Appendix 31)

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	Frequency Bands							
	4 MHz	6 MHz	8 MHz	12 MHz	16 MHz	22 MHz	25/26 MHz	
1 2 3 4 5	4187 4187.5 4188 4188.5 4189	6285 6285.5 6286 6286.5 6287	8342 8342.5 8343 8343.5 8344	12422 12422.5 12423 12423.5 12424	16619 16619.5 16620 16620.5 16621	22242 22242.5 22243 22243.5 22243.5 22244	25161.5 25162 25162.5 25163 25163.5	
6 7 8 9 10	4189.5 4190 4190.5 4191 4191.5	6287.5 6288 6288.5 6289 6289.5	8344.5 8345 8345.5 8346 8346.5	12424.5 12425 12425.5 12426 12426.5	16621.5 16622 16622.5 16623 16623.5	22244.5 22245 22245.5 22246 22246.5	25164 25164.5 25165 25165.5 25166	
11 12 13 14 15	4192 4192.5 4193 4193.5 4194	6290 6290.5 6291 6291.5 6292	8347 8347.5 8348 8348.5 8349	12427 12427.5 12428 12428.5 12429	16624 16624.5 16625 16625.5 16626	22247 22247.5 22248 22248.5 22249	25166.5 25167 25167.5 25168 25168.5	
16 17 18 19 20	4194.5 4195 4195.5 4196 4196.5	6292.5 6293 6293.5 6294 6294.5	8349.5 8350 8350.5 8351 8351.5	12429.5 12430 12430.5 12431 12431.5	16626.5 16627 16627.5 16628 16628.5	22249.5 22250 22250.5 22251 22251.5	25169 25169.5 25170 25170.5 25171	
21 22 23 24 25	4197 4197.5 4198 4198.5 4199	6295 6295.5 6296 6296.5 6297	8352 8352.5 8353 8353.5 8353.5	12432 12432.5 12433 12433.5 12434	16629 16629.5 16630 16630.5 16631	22252 22252.5 22253 22253.5 22254		
26 27 28 29 30	4199.5 4200 4200.5 4201 4201.5	6297.5 6298 6298.5 6299 6299.5	8354.5 8355 8355.5 8356 8356.5	12434.5 12435 12435.5 12436 12436.5	16631.5 16632 16632.5 16633 16633.5	22254.5 22255 22255.5 22256 22256.5		
31 32 33 34 35	4202	6300	8357 8357.5 8358 8358.5 8358.5	12437 12437.5 12438 12438.5 12439	16634 16634.5 16635 16635.5 16636	22257 22257.5 22258 22258.5 22259		
36 37 38 39 40			8359.5 8360 8360.5 8361 8361.5	12439.5 12440 12440.5 12441 12441.5	16636.5 16637 16637.5 16638 16638.5	22259.5 22260 22260.5 22261 22261.5	<u>ъ</u>	
41 42 43 44 45			8362 8362.5 8363 8363.5 8364	12442 12442.5 12443 12443.5 12444	16639 16639.5 16640 16640.5 16641	22262 22262.5 22263 22263.5 22264		

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	1		Freque	ncy Bands			
	4 MHz	6 MHz	8 MHz	12 MHz	16 MHz	22 MHz	25/26 MH
46	·		8364.5	12444.5	16641.5	22264.5	
47	1		8365	12445	16642	22265	1
48	:		8365.5	12445.5	16642.5	22265.5	
49			8371	12446	16643	22266	
50	:		8371.5	12446.5	16643.5	22266.5	
51			8372	12447	16644	22267	· .
52			8372.5	12447.5	16644.5	22267.5	
53	•		8373	12448	16645	22268	
54	2]	8373.5	12448.5	16645.5	22268.5	
55			8374	12449	16646	22269	
E (- 		8374.5	12449.5	16646.5	22269.5	,
56			8375	12450	16647	22270	
57			8375.5	12450.5	16647.5	22270.5	
58			8376	12450.5	16648	22270.5	
59				12451.5	16648.5	22271.5	
50				12451.5	10040.3	222/1.5	
51				12452	16649	22272	
52		l		12452.5	16649.5	22272.5	м.
53				12453	16650	22273	
54				12453.5	16650.5	22273.5	
55 55				12454	16651	22274	
				12454.5	16651.5	22274.5	
56 57				12455	16652	22275	
				12455.5	16652.5	22275.5	
58				12456	16653	22276	
5 9 70				12456.5	16653.5	22276.5	
				10/57	16654	22277	
/1				12457			1
2				12457.5	16654.5	22277.5	
73				12458	16655	22278	
74			ĺ	12458.5 12459	16655.5 16656	22278.5	
75							
76				12459.5	16656.5		
77				12460	16657		
78				12460.5	16657.5		1
79				12461	16658		1
30				12461.5	16658.5		
31				12462	16659	t	
32		1		12462.5	16659.5		
33				12463	16660		
34				12463.5	16660.5		· · ·
35				12464	16661		
26				12464.5	16661.5	, ,	1
36]	12465	16662		1
37]	12465.5	16662.5		-
38			1	12465.5	16663		1
39 90				12466.5	16663.5		
413			1	12400.3	10002.0		1

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AP35(Rev.)

4 MHz 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	6 MHz 8 MHz	12 MHz 12467 12467.5 12468 12468.5 12469 12469.5 12470 12470.5 12471 12471.5 12472 12472	16 MHz 16664 16664.5 16665 16665.5 16666 16667.5 16667 16668 16668.5	22 MHz	25/26 MHz
92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12467.5 12468 12468.5 12469 12469.5 12470 12470.5 12471 12471.5 12472	16664.5 16665 16665.5 16666 16666.5 16667.5 16668 16668.5		
93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12468 12469.5 12469 12469.5 12470 12470.5 12471 12471.5 12472	16665 16665.5 16666 16667.5 16667.5 16668 16668.5		
94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12468.5 12469 12469.5 12470 12470.5 12471 12471.5 12472	16665.5 16666 16667 16667.5 16668 16668.5		
95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12469 12469.5 12470 12470.5 12471 12471.5 12472	16666 16666.5 16667 16667.5 16668 16668.5		
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12470 12470.5 12471 12471.5 12472	16667 16667.5 16668 16668.5		
98 99 900 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 117		12470.5 12471 12471.5 12472	16667.5 16668 16668.5		
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12470.5 12471 12471.5 12472	16668 16668.5		
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12471 12471.5 12472	16668.5		
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		12471.5 12472	16668.5	-	1
102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117					
103 104 105 106 107 108 109 110 111 112 113 114 115 116 117		1 10/70 -	16669		
104 105 106 107 108 109 110 111 112 113 114 115 116 117		12472.5	16669.5		
105 106 107 108 109 110 111 112 113 114 115 116 117	· ·	12473	16670		
106 . 107 . 108 . 109 . 110 . 111 . 112 . 113 . 114 . 115 . 116 . 117		12473.5	16670.5		
107 108 109 110 111 112 113 114 115 116 117		12474	16671		
108 109 110 111 112 113 114 115 116 117		12474.5	16671.5		
109 110 111 112 113 114 115 116 117		12475	16672		
110 111 112 113 114 115 116 117		12475.5	16672.5		
111 112 113 114 115 116 117		12476	16673		
112 113 114 115 116 117		12476.5	16673.5		
113 114 115 116 117			16674		
114 115 116 117			16674.5		
115 116 117			16675		
116 117			16675.5 16676		
117					
			16676.5		
118			16677		
			16677.5		
119 120			16678 16678.5		
121			16679		
122			16679.5		
123			16680		
124 125			16680.5 16681		
126			16681.5		
127			16682		
128			16682.5		
129			16683		
	•				
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ANNEX 9

Consequential amendments to the Radio Regulations

ARTICLE 8

MOD	500A	The frequencies 2 187.5 kHz, <u>4 207 kHz</u> , <u>6 312 kHz</u> , <u>8 414.5 kHz</u> , <u>12 577 kHz</u> and <u>16 804.5 kHz</u> are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article N 38.
MOD	500B	The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, <u>8 356.5 kHz</u> , 12 520 kHz and 16 695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article N 38.
ADD	520A	The frequency 4 339.5 kHz is the [international] frequency for the broadcasting of NAVTEX type transmissions (see Resolution COM5/4, Appendix 31(Rev.)).
ADD	520B	The frequencies 4 340 kHz, 6 482.5 kHz, 8 685.8 kHz, 12 997.5 kHz, 17 144 kHz, 19 730.5 kHz, 22 626.5 kHz, 26 123.5 kHz are the [international] frequencies for the broadcasting of Marine Safety Information (MSI) (see Resolution COM5/5, Appendix 31(Rev.)).
		The new footnote 520B has to be included in the bands 4 063 - 4 438 kHz, 6 200 - 6 525 kHz, 8 195 - 8 815 kHz, 12 230 - 13 200 kHz, 16 360 - 17 410 kHz, 19 680 - 19 800 kHz, 22 000 - 22 855 kHz and 26 100 - 26 175 kHz.
MOD	529A	The conditions for the use of the carrier frequency <u>8 291 kHz, 12 290 kHz and</u> 16 420 kHz are prescribed in Articles 38, <u>N 38</u> and 60.
SUP		[Footnotes 532 and 544]

MOD	S	ub-Section IIB. Procedure to Be Followed for Coast Radiotelephone Stations Operating in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz 27 500
MOD	1315	§ 24. (1) Examination of Notices Concerning Frequency Assign- ments to Coast Radiotelephone Stations in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz for Coast Radiotelephone Stations (see No. 1239). 27 500
MOD	1326 27 500	§ 25. (1) Examination of Notices Concerning Frequencies Used for Reception by Coast Radiotelephone Stations in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz for Ship Radiotelephone Stations (see Nos. 1219 and 1239).
MOD	1388	§ 40. (1) Frequency Bands: 9 - 2850 kHz 3 155 - 3 400 kHz 3 500 - 3 900 kHz in Region 1 3 500 - 4 000 kHz in Region 2 3 500 - 3 950 kHz in Region 3 4 219.4 - 4 349.4 kHz 6 325.4 - 6 493.9 kHz 6 313.75 - 6 482.25 kHz 6 313.75 - 6 482.25 kHz 8 416.25 - 8 685.25 kHz 12 578.75 - 12 997.75 kHz 16 859.4 - 17 196.9 kHz 16 866.25 - 17 143.25 kHz 19 680 - 19 730.25 kHz 7 22 310.5 - 22 561 kHz 2 376.25 - 22 626.25 kHz 2 2 100 - 26 122.75 kHz 7

MOD

1391

1395

§ 41. (1) Frequency Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz for Coast Radiotelephone Stations. 27 500

MOD

§ 42. (1) Frequency Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 kHz and 23 000 kHz for Ship Radiotelephone Stations. 27 500

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ANNEX 10

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Draft Note from the Chairman of Committee 4 to the Chairman of Committee 5 and Committee 6

Committee 4 has taken a decision on the revision of Appendix 31 (see annex). You are invited to take into account, where appropriate, the decisions of Committee 4 in the work of your Committee.

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INTERNATIONAL TELECOMMUNICATION UNION

WOB-87 WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/69-E 6 October 1987 Original: English

COMMITTEE 4

NOTE FROM THE CHAIRMAN OF COMMITTEE 4

At the seventh meeting of Committee 4 clarification was requested 1. regarding the use of the term SIT in the wording of MOD 772.

Recommendation 630 and Report 775-2 of the CCIR use the term SIT in 2 the following manner:

- In the English version: shipborne interrogator transponders (SIT);
- In the French version: Interrogateur-répondeur de navire (SIT shipborne interrogator-transponder);
- In the Spanish version: Interrogador-respondedor a bordo de barcos (IRB) (SIT- shipborne interrogator-transponder).

The possible wording of the MOD772, in the light of the proposal 3. contained in document 281 and these explanations may be:

3.1 In English:

MOD 772 In the band 2900 - 3100 MHz, the use of the shipborne interrogator-transponder system (SIT) shall be confined to the sub-band 2930 - 2950 MHz.

3.2 In French:

Dans la bande 2900-3100 MHz, l'emploi du système MOD 772 interrogateur-répondeur de navire (SIT, shipborne interrogator-transponder) est limité à la sous-bande 2930-2950 MHz.

3.3 In Spanish:

En la banda 2900-3100 MHz, el uso del systema interrogador -MOD 772 respondedor a bordo de barcos (IRB) (SIT- shipborne interrogatortransponder) se limitara a la sub-banda 2930-2950 MHz.

4. This wording is submitted to Committee 4 for consideration and approval.

> O. VILLANYI Chairman of Committee 4

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INTERNATIONAL TELECOMMUNICATION UNION

NOB-87 INTERIVATIONAL TELESCONT WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/70-E 6 October 1987 Original : French

BUDGET CONTROL COMMITTEE

Draft

REPORT OF THE BUDGET CONTROL COMMITTEE

TO THE PLENARY MEETING

The Budget Control Committee held 4 meetings during the Conference 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 :

- to determine the organization and the facilities available a) 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.

Determination of the organization and facilities available to 1. delegates

The Committee took note of the fact that no delegation had made any comments on the subject of the organization and facilities or the administrative arrangements made by the Secretary-General. It expressed the view that the organization and the arrangements made by the Secretary-General had been entirely satisfactory and thanked him and his staff for the same.

2. Conference budget

The Budget Control Committee examined the Conference budget, amounting to 1,916,000 Swiss francs, which was approved by the Administrative Council at its 41st session (1986).

The Committee noted that the Conference budget did not comprise expenditure on common services supernumerary staff salaries, which are charged to a special section of the ordinary budget. This expenditure was estimated at 1,069,000 Swiss francs.

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In addition, the Committee noted that the Conference budget had been adjusted 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. As a result of these adjustments, the budget of the Conference stands at 1,855,400 Swiss francs, i.e. a decrease of 60,600 Swiss francs.

3. Final Acts

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

"... if a conference or meeting 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 costs shall be decided by the Plenary Meeting of the conference or meeting."

As all the documents which can be used as a basis for the sales edition of the Final Acts of the Conference are prepared using word processing systems, no expenditure under this heading need be charged to the supplementary publications budget.

On the other hand, in accordance with the provisions of Nos. 119 and 122 of the Convention (Nairobi, 1982), the costs of translating the Final Acts of the Conference into the six official languages are charged to the Conference.

4. Situation of the 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 Conference.

Accordingly, Annex 1 contains a statement showing the Conference budget, as approved by the Administrative Council and adjusted under Resolution No. 647, together with a breakdown of credits among the budget sub-heads and items as well as the actual expenditure incurred as at 4 October 1987. There is also an indication of the expenditure committed up to that date and an estimate of expenditure up to the close of the Conference's work.

The above statement shows that the total amount to be charged to the ordinary budget for WARC-MOB 87 is estimated at 1,713,700 Swiss francs, i.e. 141,700 Swiss francs less than the amount allocated by the Administrative Council and adjusted under Resolution No. 647. It can therefore be assumed that Conference expenditure will remain within the limits laid down.

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Annex 2 to this document show, for information, the situation of expenditure on preparatory work for Study Group 8 of the CCIR and for the Regional Administrative Conference (EMA), 1985.

Expenditure limit fixed by Additional Protocol I to the 5. Convention (Nairobi, 1982)

Committee 3 considered the situation of Conference expenditure, including expenditure on preparatory work, in relation to the expenditure limit fixed for WARC-MOB 87 by the Plenipotentiary Conference (see Annex 3 to this document). It is noted that the expenditure limit of 4,600,000 Swiss francs may leave a credit balance of 1,656,000 Swiss francs and this, without taking into account the margins existing in the Conference's accounts.

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

Under Article 16 of the Financial Regulations, the report of the Budget Control Committee must include a list of the recognized private operating agencies and international organizations which contribute to the expenses of the Conference. To this shall be added a list of the international organizations which have been exempted from payment in accordance with Resolution No. 925 of the Administrative Council.

A list is found in Annex 4 to this document.

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

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 Conference. 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.

In this connection, it is recalled that, in the budget approved for 1988, the Administrative Council made a global provision of 30,000 Swiss francs for post conference work to be done by the General Secretariat.

(will be completed lately)

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In accordance with No. 479 of the Convention, this report, after consideration and approval, will be transmitted to the Secretary-General, together with the observations of the Plenary Meeting, for submission to the Administrative Council at its next session.

The Plenary Meeting is requested to examine this report.

Dr. M.K. RAO Chairman of the Budget Control Committee

Annexes : 4

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ANNEX 1

Situation of accounts for WARC MOB (1987) as at 2 October 1987

Heading	Budget approved by AC	Budget adjusted on 01.09.87	Expendi actual	ture at 2.1 committed estimated	0.1987 total
col.	1	2	3	4	5
		thousands	of Swis	s francs	
Sub. II Staff expenditure					
11.621 Salaries & relat.ex		1333	9	1148	1157
11.622 Travel (recruitment 11.623 Insurance) 81 .36	81 36	3 0	60 32	63 32
	1511	1450	12	1240	1252
Sub.III Premises & equip.					
<pre>11.631 Prem.,furniture,max 11.632 Document production 11.633 Office supp.& overh 11.634 PTT 11.635 Techn. installat.</pre>	n 110	47 110 45 80 5	0 30 22 27 5	44 113 63 50 0	44 143 85 77 5
11.636 Sundry & unforeseer		10	9	4	13
	297	297	93	274	367
Sub.IV Other expenditure					
11.643 Finals Acts	108	108	0	95	95
COTAL, SECTION 11.6	1916	1855	105	1609	1714
	*****	****	xxxxxxxx	*****	xxxxxxxx

UNUSED CREDITS

141 xxxxxxxxx

Col. 2 Budget including additional credits to take account of changes in the common system of the United Nations and its specialized agencies.

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ANNEX 2

Preparatory work in 1986 for the WARC MOB 87

	Budget	1986
· ·	1986*)	Accounts
	- Swiss	s francs -
·		,
Items		
	1	
Sub-head I Staff expenditure		
	192,400	138,285.85
11.611 Salaries and related expenses	44,000	8,092.65
11.612 Travel (recruitment)	5,000	1,323.80
11.613 Insurance	5,000	-,
	241,400	147,702.30
	,	,.
Sub-head II Premises and equipment		
• •		
11.621 Premises, furniture, machines	10,000	13,306.31
11.622 Document production	17,000	20,040.55
11.623 Office supplies and expenses	15,000	6,446.35
11.624 PTT	15,000	5,973.90
11.625 Technical installations	0	0
11.626 Sundry and unforeseen	10,000	1,726.34
	67,000	47,493.45
	208 / 00	105 105 75
	308,400	195,195.75

*) Budget 1986 including additional credits

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ANNEX 3

Expenditure limit fixed by Additional Protocol I to the Convention (Nairobi, 1982)

	S	ections 11 and	17
WARC MOB 87	Limit on expenditure Add.Prot.I	Actual or estimated expenditure	Difference
		- Swiss francs	-
Limit on expenditure	4,600,000		
1986 : Preparatory work		* 270,000	
1987 : Cost of the Conference		** 2,630,000	
1988 : Post-Conference work		** 44,000	
	4,600,000	2,944,000	1,656,000

The figures given in the table correspond to 1 September values.

* Actual expenses

** Expenses provided for in the budget.

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ANNEX 4

List of recognized private operating agencies and international

Organizations contributing to the work of the conference

		No. of contributory units
I.	Recognized private operating agencies	
	None	·
II.	International organizations	<i>e</i> *
II.1	United Nations	*)
11.2	Specialized agencies	• •
	International Civil Aviation Organization	*)
	International Maritime Organization	*)
	World Meteorological Organization	*)
11.3	Regional telecommuication organizations	
	European Conference of Postal and Telecommunications Administrations	*)
	Arab Telecommunication Union	*)
	Panafrican Telecommunication Union	*)
II.4	Other international organizations	
	European Space Agency	1/2
	International Air Transport Association	*)
	International Association of Lighthouse Authorities	1/2
	International Chamber of Shipping	1/2
	International Committee of the Red Cross	*)
	International Maritime Radio Association	*)
	International Electrotechnical Commission	*)

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International Transport Workers' Federation	1/2
International Maritime Satellite Organization	1/2
International Telecommunications Satellite Organization	1/2
International Society for Aeronautical Telecommunications	1/2
International Amateur Radio Union	*)

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*) Exempted from any contribution by Administrative Council Resolution No. 925.

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INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/71-E 6 October 1987 Original: English

WORKING GROUP 4-B

Note by the Chairman of Working Group 4-B

DRAFT RESOLUTION [COM4/5]

The draft text of new Resolution [COM4/5], prepared by a small Drafting Group, is annexed hereto.

> J. PIPONNIER Chairman of Working Group 4-B

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

RESOLUTION [COM4/5]

Relating to the Need to Study the Question of Including Decisions of Regional Administrative Radio Conferences in the Radio Regulations

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that its agenda contained an item relating to Resolution No. 704 of the World Administrative Radio Conference for the Mobile Services, Geneva, 1983 with the view to consider the final text of appendices containing channelling arrangements prepared by "MM - Region 1"* and to include them in the Radio Regulations;

b) that the consideration of the above item would lead the countries of Region 2 and 3 to study in detail the impact of the proposed appendices on services to which the bands in question are allocated;

c) that it was not possible to carry out such a study within the time available to the Conference;

further considering

a) that the inclusion in the Radio Regulations of the Satellite Broadcasting Plan in the band 11.2 - 12.7 GHz (Region 2) intended to complete the planning process initiated by WAR 1977 lead to similar concern resulting in a detailed review by WARC 1985 of all of the decisions of the Regional Conference and the Conference could only include some of the Regional Conference decisions in the Radio Regulations, the others being included in Resolutions;

b) that the band 1 605 - 1 705 KHz is being planned in Region 2 for MF broadcasting and that this matter will be treated at the second session of the Region 2 MF Broadcasting Conference in 1988;

c) that the adoption of regional plans in the same band in different regions for different services may give rise to particular difficulties between the Regions concerned;

^{*} Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1), Geneva, 1985.

d) that when included in the Radio Regulations decisions of a Regional Administrative Conference become applicable to all the countries of the Regions concerned whether or not they are party to the agreement and the remaining country-Members of the ITU will have to observe them;

resolves

1. to submit to the next Plenipotentiary Conference the consideration of the question of including in the Radio Regulations the decisions of Regional Administrative Radio Conferences and the implications of such inclusion on all country-Members of the Union;

2. that in order for all relevant information to be available to that Conference, the IFRB shall prepare a report on the difficulties encountered in the application of Regional Agreements and submit it to the Conference for consideration;

3. that administrations should also consider the matter in order to enable the Plenipotentiary Conference to reach decisions on the matter;

requests the IFRB

to prepare a report on the subject and submit it for consideration by the 1989 Plenipotentiary Conference;

invites the Administrative Council

to bring to the attention of the Plenipotentiary Conference the need for a decision by that Conference on the inclusion of decisions of Regional Administrative Radio Conferences in the Radio Regulations;

recommends to the Plenipotentiary Conference

to consider the question of including in the Radio Regulations decisions of Regional Administrative Conferences and, to request the Administrative Council to include in the agenda of a competent Administrative Conference any action that it may decide on the matter.



Document DT/72-E 6-October 1987 Original: English

Source: Documents 33, 302

WORKING GROUP 6-A

NOTE BY THE CHAIRMAN OF WORKING GROUP 6-A

Attached is a consolidation of modifications to the Resolution No. 319 in accordance with discussions at our twelfth meeting and discussions with Argentina and Japan after the twelfth meeting.

R. SWANSON Chairman of Working Group 6-A

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.

(MOD)	RESOLUTION No. 319 (Mob-83)
G/33/340 MOD	Relating to a General Review of the HF Bands <u>4 000 - 4 063 kHz and 8 100 - 8 195 kHz</u> Allocated on an Exclusive or <u>a</u> Shared Basis to the Maritime Mobile Service ¹
G/33/341 MOD	The World Administrative Radio Conference for the Mobile Services, Geneva, 1983 <u>1987</u> ,
NOC	noting
G/33/342 MOD	a) that this <u>the World Administrative Radio Conference for the Mobile</u> Services, Geneva, 1983 has established 1 kHz;
G/33/343 SUP	b)
G/33/344 ADD	¹ Replaces Resolution No. 319 of the WARC (Mob-83)
G/33/345 MOD	c) b) that it was not <u>neither</u> within the competence of <u>the World</u> <u>Administrative radio Conference for the Mobile Services, Geneva, 1983 nor</u> of this Conference to carry out bands;
G/33/346 SUP	<u>recognizing</u> a) - f)
NOC	<u>considering</u> a) - b)
MOD	<u>resolves</u> 1
	1 that the next component would administrative radia conference

1. that the next competent world administrative radio conference (WARC) should carry out a general review and any necessary revision of all the HF bands allocated on an exclusive or shared basis to the maritime mobile service <u>in accordance with Appendix 16</u>, taking into account the requirements of each administration;

÷

,

G/33/347

MOD 1. that the next ... revision of all the HF bands 4 000 - 4 063 kHz and 8 100 - 8 195 kHz allocated on an exclusive or a shared basis ... administration; - 3 -MOB-87/DT/72-E

	,
G/33/348 SUP	2 - 4
NOC	invites the Administrative Council
G/33/349 MOD	1. to include on the agenda of the next competent WARC the Articles and Appendices of the Radio Regulations relevant to the review and revision referred to in resolves 1 and 2; of the bands 4 000 - 4 063 kHz and 8 100 - 8 195 kHz, in accordance with Appendix 16;
G/33/350 (MOD)	2. to empower fixed services;
NOC	requests the CCIR
G/33/351 MOD	to study the technical issues involved in <u>the establishment of</u> sharing criteria between the maritime mobile and fixed services in the 4 000 - 4 063 kHz and 8 100 - 8 195 kHz frequency bands a revision of following issues; <u>including the possibility of using other emissions in</u> the maritime mobile service by ships;
G/33/352 SUP	a) - c)
NOC	invites administrations
NOC	to make 8 195 kHz

<u>Reasons</u>: Issues, other than sharing, in Resolution No. 319 have been resolved as a result of ADD Appendix 31A and ADD Chapter N IX.



NOB-87 INTERNATIONAL TELECOMMENTS INTERNATIONAL TELECOMMUNICATION UNION

Corrigendum 1 to Document DT/73-E 7 October 1987 Original: English

WORKING GROUP 4 AD HOC 2

1. On page 2 (Resolution No. 300(Rev.)(Mob-87)), under "considering":

modify paragraph d) to read:

"d) that the World Maritime Administrative Radio Conference (WMARC, Geneva, 1974) established a provisional procedure for the use and notification of paired frequencies for narrow-band direct-printing telegraphy and that the application of this procedure by administrations and by the IFRB was satisfactory;"

suppress paragraph e).

2. On page 7 (Resolution [COM4/7]), add a new "resolves":

"4. that frequency assignments for which the Board received no notification for the frequency indicated in Appendix 16(MOD) shall bear a symbol to indicate that they will no longer be taken into account. The Board shall apply the provisions of Article 16 to the corresponding allotment appearing in Appendix 25."

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INTERNATIONAL TELECOMMUNICATION UNION **NICERINAL FOR THE MOBILE SERVICES** GENEVA, September-October 1987

4

Document DT/73-E 6 October 1987 Original: English

WORKING GROUP 4 AD HOC 2

DRAFT REPORT OF WORKING GROUP 4 AD HOC 2-1 TO WORKING GROUP 4 AD HOC 2

The attached draft Resolutions are submitted for further consideration.

The USSR Delegation was unable to participate and may wish to address these matters at Working Group 4 ad hoc 2.

If the effective date of revised Appendix 25 is other than 7 June 1974, consequential amendments should be made to RR 1392 and 1396.

> F.K. WILLIAMS Chairman of Working Group 4 ad hoc 2

- 2 -MOB-87/DT/73-E

RESOLUTION No. 300(Rev.) (Mob-87)

Relating to the use and notification of the paired frequencies reserved for narrowband direct-printing telegraph and data transmission systems in the HF bands allocated on an exclusive basis to the Maritime Mobile Service (see Appendix 32)

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that certain sections of the HF bands allocated to the maritime mobile service have been reserved for narrow-band direct-printing telegraph and data transmission systems for use on a paired frequency basis only;

b) that Appendix 32 of the Radio Regulations contains a channelling arrangement in the maritime HF bands for narrow-band direct-printing telegraphy and data systems (paired frequencies);

c) that this Conference has made available an increased number of paired frequencies reserved for narrow-band direct-printing telegraphy and data transmission systems for use on a paired basis only and modified Appendix 32 accordingly;

d) that the World Maritime Administrative Radio Conference (WMARC, Geneva, 1974) established interim measures for the orderly taking into use of the paired frequencies;

e) that WARC 1974 established a provisional procedure for the use and notification of paired frequencies for narrow-band direct-printing telegraphy and that the application of this procedure by administrations and by the IFRB was satisfactory;

resolves

1. that paired frequencies in the HF bands reserved for narrow-band directprinting telegraphy between coast stations and ship stations shall be used by those stations, notified to the IFRB and recorded in the Master Register in the following manner:

1.1 assignments of pairs of frequencies for transmission and reception shall be made solely to coast stations. Ship stations of any nationality shall use by right for their transmissions the receiving frequencies of the coast stations with which they exchange traffic;

1.2 to achieve efficient usage, each administration shall choose the pairs of frequencies for its requirements, if necessary with the assistance of the IFRB;

\$

1.3 the assignments thus selected shall be notified to the IFRB in notices as shown in Appendix 1 to the Radio Regulations and administrations shall supply the basic characteristics listed in Section A or B of that Appendix, as appropriate;

1.4 whenever practicable each notice should reach the Board before the date on which the assignment is brought into use. It must reach the Board not earlier than one year before the date on which it is to be brought into use but in any case not later than 30 days after it is actually brought into use;

1.5 assignments which are in conformity with the Radio Regulations, and in particular Appendix 32, shall be examined by the Board from the viewpoint of the probability of harmful interference to be caused by or to other existing or proposed uses. The Board shall inform the administration concerned of the results of its examination and shall record the notified assignment with a reference to this Resolution and without any date in Column 2. The date of receipt of the notice by the Board and the date of putting into use of the assignment shall be entered in the Remarks Column. In cases where the Board reaches an unfavourable finding, it shall make any suggestion with a view to resolving the incompatibilities;

1.6 any notice not in conformity with the Radio Regulations shall be returned to the notifying administration by the IFRB, together with any suggestion which the Board may be able to submit in this respect;

1.7 should difficulties arise between administrations using the same channel, or adjacent channels, the matter shall be settled by agreement between the administrations concerned taking into account the information published by the IFRB;

2. that a future competent conference be invited to review this Resolution and examine any difficulties which may have arisen in its application;

3. that the entries made in the Master Register under this Resolution shall in no way prejudge any decisions which may be taken by the aforementioned conference;

invites the Administrative Council

to place this Resolution on the agenda of the next competent conference.

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RESOLUTION [COM4/6]

Relating to the Notification and Use of the Additional Paired Frequencies Reserved for Radiotelephony in the HF Bands Allocated to the Maritime Mobile Service

<u>, 1</u>

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987.

considering

a) that there is an increasing demand for additional paired frequencies for radiotelephony in the HF bands allocated on an exclusive basis to the maritime mobile service;

b) that this Conference has modified Appendix 31 of the Radio Regulations and has provided a number of additional paired frequencies for radiotelephony;

c) that a procedure for the establishment of initial duplex radiotelephony allotments, as well as a procedure for the updating of the use of these channels, for the newly available additional channels is necessary,

noting

that the current Appendix 25 allotment plan together with Article 16 of the Radio Regulations have effectively served the maritime mobile service and the latter may be used for the updating of the use of the new channels,

resolves

that the newly available channels shall be used in accordance with the procedure contained in the Annex to this Resolution.

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ANNEX

Procedure for Bringing into Use the Newly Available Radiotelephone Channels

1. Administrations intending to use one of the new channels shall send their requirements to the Board by providing the information listed in Appendix 5 of the Radio Regulations before [Date D1].

2. Following the receipt of this information, the Board shall examine these requirements and if necessary request the Administrations to communicate any missing informations. Only those requirements which are complete will be taken into account in this procedure.

3. Using its technical standards, the Board shall prepare an initial allotment arrangement following the ordering indicated in paragraph 4 below.

4. The initial allotment arrangement for the new channels shall include for a given band and a given allotment area the requirements in the following order:

4.1 requirements of administrations having no coast station allotments in Appendix 25 of the Radio Regulations and which require such allotments;

4.2 requirements of administrations which, following the application of Article 16 could not be afforded an allotment in the current Appendix 25 with the required protection criteria;

4.3 requirements of administrations asking for additional allotments to supplement their existing allotments in order to satisfy an increase in radiotelephony traffic.

5. The Board shall consult those administrations whose requirements could not be included in the allotment arrangement for the new channels and, if an administration insists, the Board shall determine the channel which is the least affected and shall include the requirement in this channel.

6. Not later than [Date D2] the Board shall publish the allotment arrangement for the new channels for comments by administrations.

7. If within a period of [X] months following this publication an administration informs the Board that its proposed allotment is not acceptable to it, the Board shall endeavour to identify an alternative channel as indicated in paragraph 5 above.

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8. If following the application of paragraph 9 above, the administration concerned is not in position to accept the Board's recommendation, the requirement will be returned to the administration concerned suggesting that it apply the Article 16 procedure.

9. At [Date D3] the Board shall enter the allotment arrangement for the new channels in Appendix 25 and shall prepare a revised version of Appendix 25 for publication by the Secretary-General.

10. Thereafter administrations and the Board shall apply the provisions of Article 12 for notification and recording in the Master Register.

11. As of [Date D3] Administrations and the Board shall also apply the provisions of Article 16 for the updating of Appendix 25.

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RESOLUTION [COM4/7]

Relating to the Transfer of Frequency Assignments of Stations Operating in Accordance with Appendix 25

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that this Conference has modified Appendices 16 and 31 of the Radio Regulations and has placed the paired frequencies reserved for radiotelephony in the HF bands allocated to the maritime mobile service at intervals of 3.0 kHz as opposed to 3.1 kHz;

b) that it will be necessary to make a consequential modification to Appendix 25 of the Radio Regulations;

c) that coast and ship radiotelephone stations will need to change their transmitting and receiving frequencies to bring them into conformity with the modification made to Appendix 16 (Section A);

d) that there should be an orderly transition to the revised paired frequencies reserved for radiotelephony in the HF bands allocated to the maritime mobile service;

resolves

1. that at 0001 UTC on [] coast and ship radiotelephone stations shall change their transmitting and receiving frequencies to bring them into conformity with Appendix 16 (MOD), Section A;

2. that within three months prior to [Date D4] the administrations shall notify the Board of the transfer of their assignments to the frequency indicated for the same channel number in Appendix 16 (MOD);

3. that notices of frequency assignments which are in conformity with Appendix 25, the basic characteristics of which are not modified, shall be recorded with the date [Date D5] in column 2a.



Document DT/74-E 7 October 1987 Original: English

COMMITTEE 5

DRAFT REPORT OF DRAFTING GROUP 5-1 TO COMMITTEE 5

Drafting Group 5-1, composed of delegates from the United States, the USSR and Switzerland and with concurrence of the observers of the International Red Cross, submits the attached draft Recommendation for consideration of Committee 5.

> E. HOLLIMAN Convener of Drafting Group 5-1

Annex: 1

ANNEX

DRAFT

RECOMMENDATION [COM5/A]

Relating to Identification of Special Vessels by Means of Standard Maritime Radar Transponders

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) the desirability to implement modern techniques in standard maritime radar transponders for the identification and location of vessels at sea;

b) Radio Regulations 3219A and N 3219A which provide that the identification and location of medical transports at sea may be effected by means of appropriate standard maritime radar transponders;

c) that identification and location transponders designed to be compatible with radiolocation radars are not necessarily compatible with radars used among administrations; nor are their coding for identification technically defined;

d) that if maritime radar transponders of the type described in CCIR Report 775-2 and Recommendations 628 and 630, or using the technology described in CCIR Report 774-2, were to be encoded for identification purposes, they would likely be incompatible with most radiolocation radars;

invites the CCIR

to study the question of the identification and location of medical transport ships by means of the standard maritime radar transponders taking into account also the technical and economical impact of implementation;

invites administrations

to supply information on this question to the CCIR;

requests the Administrative Council

to include this Recommendation in the agenda of the next competent conference.



MOB-87 INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/75-E 7 October 1987' Original: English

WORKING GROUP 4 AD HOC 2

SECOND DRAFT REPORT OF WORKING GROUP 4 AD HOC 2-1

The attached draft Resolutions are submitted for further consideration.

> F.K. WILLIAMS Chairman of Working Group 4 ad hoc 2

RESOLUTION [COM4/10]

Relating to the Transfer of Paired Frequency Assignments Reserved for Narrow-Band Direct-Printing Telegraph and Data Transmission Systems

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that it has provided for additional narrow-band direct-printing and data transmission channels;

recognizing

a) that the transfer fo frequency assignments from the channels established by the World Administrative Radio Conference, Geneva, 1974, and which have already been put into use to the channels adopted by this Conference should be made with the least possible disruption of the service provided by each station;

b) that a satisfactory procedure of the use and notification of paired frequencies for narrow-band direct-printing telegraph and data transmission has been established in Resolution No. 300 (Rev.Mob-87).

c) that the present coast station assignment arrangements for paired narrow-band direct-printing telegraphy and data transmission have been an effective order for this service;

resolves

1. that at 0001 UTC on [Date D4] coast and ship stations using paired narrow-band direct-printing and data transmission shall change their transmitting and receiving frequencies to bring them into conformity with Appendix 32 (MOD);

2. that within three months prior to [Date D4] the administrations shall notify the Board of the transfer of their assignments to the frequency indicated for the same channel number in Appendix 32 (MOD);

3. that notices of frequency assignments whose basic characteristics, other than the frequency, are not modified, shall be recorded in the Master Register;

4. that frequency assignments for which the band received no notification for the frequency indicate in Appendix 32 (MOD) shall bear a symbol to indicate that they will no longer be taken into account in the application of Resolution No. 300 (Rev.Mob-87).

RESOLUTION [COM4/11]

Transfer of Frequency Assignments of Coast Stations for Wideband and AlA or AlB Morse Telegraphy, Facsimile Special and Data Transmission Systems and Direct-Printing Telegraphy Systems Operating in the Bands Allocated Exclusively to the Maritime Mobile Service Between 4 000 and [23 000] kHz

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the frequency bands allocated to the maritime mobile service for coast stations have been changed as a result of the general review of the HF maritime mobile service bands;

b) that new frequency limits for coast stations for wideband and AlA or AlB Morse telegraphy, facsimile special and data transmission systems and direct-printing telegraphy systems are laid down in the revised provisions of [Appendix 31A].

c) that this Conference has not established a channelling arrangement for these bands;

d) that there should be an orderly transition of the frequency assignments to the newly allocated bands;

e) that, in order to effect this transfer, a fixed translation frequency should be determined in each of the frequency bands;

resolves

1. that the frequency assignments to coast radiotelegraph stations recorded in the Master Frequency Register as at [...] shall be transferred as follows:

- any frequency assignment "f" in the band 4 219.4 4 349.4 kHz shall be transferred to a frequency f 10.15 kHz,
- any frequency assignment "f" in the band 6 325.4 6 493.9 kHz shall be transferred to a frequency f 11.65 kHz,
- any frequency assignment "f" in the band 8 435.4 8 704.4 kHz shall be transferred to a frequency f 19.15 kHz,
- any frequency assignment "f" in the band 12 652.3 13 070.8 kHz shall be transferred to a frequency f 73.55 kHz,
- any frequency assignment "f" in the band 16 859.4 17 196.9 kHz shall be transferred to a frequency f 53.15 kHz,

any frequency assignment "f" in the band 22 310.5 - 22 561 kHz shall be transferred to a frequency f - 65.75 kHz;

2. that on the basis of "<u>resolves</u> 1" the IFRB shall indicate to each administration the new frequencies for their assignments recorded in the Master Register, prior to [Date D];

3. that at 0001 UTC, on [Date D4] administrations shall transfer the transmitting frequencies of their stations as indicated in <u>resolves</u> 2 above, notifying the IFRB of these transfers, in accordance with the provisions of Article 12 of the Radio Regulations;

4. that notices of frequency assignments whose basic characteristics, other than the frequency, are not modified, shall be recorded with the date [Date D5] in column 2 as in the original assignment;

5. that frequency assignments for which the Board received no notification of changeover shall be examined under Article 12 of the Radio Regulations with respect to all the transferred assignments irrespective of the date of their notification to the Board. Following this examination the Board shall modify the findings if necessary and shall enter a symbol to indicate that the assignment is not in conformity with this Resolution;

6. that in those cases where the foregoing transfer procedure will result in an increase in the probability of a specific frequency assignment causing or experiencing harmful interference, the IFRB shall render all necessary assistance to the administrations concerned in order to solve the problem. In so doing, the IFRB shall apply the provisions of Nos. 1445-1450 of the Radio Regulations, as the case might be.

NOB-87 INTERNATIONAL, TELECOMMUNICATION UNION WARC FOR, THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/76-E 12 October 1987 Original : French

COMMITTEE 2

DRAFT **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 102.

2. Meetings

The Committee met twice, on 17 September and 12 October 1987.

At its first meeting, it set up a Working Group consisting of the Chairman and Vice-Chairman of the Committee and one delegate from the United Kingdom, from Poland and from Canada, 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 authorize the Chairman and Vice-Chairman of Committee 2 to verify the credentials received after the date of the present Report and to submit their conclusions to the Plenary Meeting on the matter.

V.A. RASAMIMANANA

Chairman of Committee 2

Annex : 1

- 2 -MOB-87/DT/76-E

ANNEX

1.

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

(In French alphabetical order)

Afghanistan (Democratic Republic of) Albania (Socialist People's Republic of) Algeria (People's Democratic Republic of) Germany (Federal Republic of) Antigua and Barbuda Saudi Arabia (Kingdom of) Argentine Republic Australia Belgium Byelorussian Soviet Socialist Republic Bulgaria (People's Republic of) Burkina Faso Cameroon (Republic of) Canada Chile China (People's Republic of) Cyprus (Republic of) Vatican City State Colombia (Republic of) Korea (Republic of) Côte d'Ivoire (Republic of) Cuba Denmark Egypt (Arab Republic of) Spain United States of America Ethiopia Finland France Greece Hungarian People's Republic India (Republic of) Indonesia (Republic of) Iran (Islamic Republic of) Iraq (Republic of) Israel (State of) Italy Japan Jordan (Hashemite Kingdom of) Kenya (Republic of) Kuwait (State of) Lebanon Libya (Socialist People's Libyan Arab Jamahiriya) Madagascar (Democratic Republic of) Malaysia Malta (Republic of) Mexico Monaco Nigeria (Federal Republic of) Norway New Zealand

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Oman (Sultanate of) Panama (Republic of) Papua New Guinea Paraguay (Republic of) Netherlands (Kingdom of the) Poland (People's Republic of) Portugal Qatar (State of) Syrian Arab Republic German Democratic Republic Democratic People's Republic of Korea Ukrainian Soviet Socialist Republic Romania (Socialist Republic of) United Kingdom of Great Britain and Northern Ireland San Marino (Republic of) Senegal (Republic of) Singapore (Republic of) Sri Lanka (Democratic Socialist Republic of) Sweden Switzerland (Confederation of) Suriname (Republic of) Swaziland (Kingdom of) Tanzania (United Republic of) Czechoslovak Socialist Republic Thailand Trinidad and Tobago Tunisia Turkey Union of Soviet Socialist Republics Uruguay (Eastern Republic of) Venezuela (Republic of) Viet Nam (Socialist Republic of) Yugoslavia (Socialist Federal Republic of) Zambia (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 91)

(In French alphabetical order)

Angola (People's Republic of) Austria Bahamas (Commonwealth of the) Brazil (Federative Republic of) Burundi (Republic of) Costa Rica Ecuador Guinea (Republic of) Ireland Liberia (Republic of) Morocco (Kingdom of) Mauritania (Islamic Republic of) Togolese Republic

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

sep^dand¹

Provisional credentials found to be in order, deposited by the delegations of countries having the right to vote (see No. 383 of the Convention) Philippines (Republic of the)

<u>Conclusion</u> : The delegation of this country is entitled to vote but will only be able to sign the Final Acts if confirmation of the provisional credentials, issued by one of the authorities referred to in No. 382 of the Convention, is received before the signing ceremony.

4. Delegations attending the Conference which have not deposited credentials

*Dominican Republic *Honduras (Republic of) Mali (Republic of) Pakistan (Islamic Republic of) *Peru *Sudan (Republic of the) *Zaire (Republic of)

<u>Conclusion</u> : The delegations of these countries are neither entitled to vote nor to sign the Final Acts.

* Appears in the list of countries which have lost their right to vote (see Document 91)

3.



NIERINA HOIVAL TELECOMMODILE SERVICES GENEVA, September-October 1987 INTERNATIONAL TELECOMMUNICATION UNION

Document DT/77-E 9 October 1987 Original: English

Source: Document DL/67

WORKING GROUP 4 AD HOC 3

Working Group 4 ad hoc 3 at its third meeting agreed to forward a possible approach to the allocation table in the band 1.5 to 1.6 GHz as outlined in the attached Annexes 1 and 2. A draft Resolution is attached in Annex 3.

All three Annexes to this document are provisional and should be considered as being between square brackets.

> J.F. BROERE Chairman of Working Group 4 ad hoc 3

Annexes: 3

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ANNEX 1

MHz

Allocation to Services				
Region 1	Region 2 F	Region 3		
1 545 - [<u>1 555</u>]	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth)	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth)		
	722 727 729 730 <u>729[B]</u>			
[<u>1 555]</u> - 1 559	LAND MOBILE-SATELLITE (space-to-Earth)			
	722 727 729 730 <u>730A</u>			

(MOD) 729 1 545 - [1 555]

1 646.5 - [<u>1 656.5</u>]	AERONAUTICAL MOBILE-SATELLITE (R) (Earth-to-space) 722 727 730 735 <u>729[B]</u>
[<u>1 656.5</u>] - 1 660.0	LAND MOBILE-SATELLITE (Earth-to-space) 722 727 730 <u>730A</u>
1 660.0 - 1 660.5	RADIO ASTRONOMY LAND MOBILE-SATELLITE (Earth-to-space)
	722 735 736 <u>730[A]</u>

ADD 729[B] Notwithstanding any other provisions of the Radio Regulations, the bands [1 545 - 1 555 and 1 646.5 - 1 656.5 MHz] [may be authorized by administrations] [may be used] for communications with aircraft. Such communications must cease immediately, if necessary, to permit transmission of messages with priority 1 to [6] in Article 51 (see Resolution No. ...).

ADD 730A In the bands [1 555 - 1 559 and 1 656.5 - 1 660.5 MHz] administrations may also authorize [aircraft earth stations and] ship earth stations to communicate with space stations in the land mobile-satellite service.

(MOD) 735 (1 646.5 - [1 656.5])

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ANNEX 2

Allocation to Services				
Region 1	Region 2	Region 3		
1 530 — 1-535 [1 533] SPACE OPERATION (space-to-Earth) MARITIME MOBILE- SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile except aeronautical mobile LAND MOBILE-SATELLITE (space-to-Earth) 722 726	MARITIME M (space-to-Ea Earth Explorat Fixed Mobile 723	ŕ		

1-530 - 1 535 [1 533] SPACE OPERATION (space-to-Earth) MARITIME MOBILE- SATELLITE (space-to-Earth) Earth Exploration-Satellite	1 530 1 535 [1 533] SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed
Fixed	Mobile 723
Mobile except aeronautical mobile <u>Land Mobile-Satellite</u> (<u>space-to-Earth) 726A</u> 722 726	Land Mobile-Satellite (space-to-Earth) 726A 722 726

ADD 726A

The use of the band 1 530 - 1 544 and 1 626.5 - 1 645.5 MHz by the land mobile-satellite service is limited to non-speech low bit-rate data transmissions.

	Allocation to Services		
Region 1	Region 2	Region 3	
1 535 - 1 544	MARITIME MOBILE-SATELLITE (space-to-Earth) Land Mobile-Satellite (space-to-Earth) 726		
	722 727		

1 626.5 - 1-645.5-[<u>1 63</u>	1.5]
	MARITIME MOBILE-SATELLITE (Earth-to-space)
	LAND MOBILE-SATELLITE (Earth-to-space) 726A
	722 727 730

 $[\underline{1 \ 631.5}]$ - $[1 \ 634.5]$

MARITIME MOBILE-SATELLITE (Earth-to-space)

Land Mobile-Satellite (Earth-to-space)

722 727 730

+ 626.5 [1 634.5] - 1 645.5
MARITIME MOBILE-SATELLITE (Earth-to-Space)
Land Mobile-Satellite (Earth-to-space) 726A
722 727 730

ANNEX 3

DRAFT RESOLUTION [COM4/14]

Relating to the Extension of the Frequency Bands Allocated to the Mobile-Satellite and Mobile Services [and Their Conditions of Use]

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987

considering

a) that the demand for frequency allocations for the various mobilesatellite services has increased during the last few years;

b) that the allocations for the mobile-satellite services at 1.5 GHz are the only allocations generally available for those services below 10 GHz;

c) that since AMSS(R) systems will not be fully operational before 1992 parts of the spectrum allocated to that service have been reallocated to the LMSS;

d) that in view of the growing demand for frequency bands for satellite communications with mobile stations, it is necessary to revise the allocations in parts of the frequency spectrum to cover needs beyond 1992:

e) that the most suitable frequencies for the operation of mobile and mobile-satellite services are below about 3 GHz;

f) that the CCIR is studying the possibility and need for maritime, aeronautical and land mobile-satellite systems to use common frequency bands of the mobile-satellite service;

g) Resolutions Nos. 2 and 4 of the Radio Regulations;

h) that ICAO studies indicate that future AMSS(R) systems might require the use of all spectrum presently allocated to that service;

i) that the use of non-geostationary satellites to cover geographical areas above latitude 30° and of geostationary satellites for those located below 30° should enable mobile stations to be equipped with sufficiently directional zenithal antennas to share the frequency spectrum with the existing services;

<u>resolves</u>

1. that mobile satellite systems operating in the bands [] shall be designed to provide national service or, with the agreement of administrations concerned, provide multinational service;

2. that the antennas of such systems should to the extent practicable be designed using the latest techniques such that the beam area is consistent with service requirements;

<u>invites</u>

1. the Plenipotentiary Conference, 1989 to take appropriate steps for the convening of a world administrative radio conference, not later than 1992, to revise certain parts of the frequency allocation table in Article 8 of the Radio Regulations in the approximate range 1 - 3 GHz with a view to providing the necessary spectrum for the mobile-satellite services as well as for the mobile services;

2. the CCIR to study as a matter of urgency the technical and operational issues related to the mobile-satellite services. These studies should include applications, spectrum requirements, available and future technology and sharing aspects between the mobile-satellite services;

3. IMO, ICAO and other interested international organizations to cooperate in these studies and to make the results of their own studies available to the CCIR;

4. the WARC-ORB-88 to consider the particular characteristics of the mobile-satellite services when dealing with provisions relating to improved procedures and, if not possible, to invite the Plenipotentiary Conference to include this matter in the agenda of the 1992 WARC referred to in "invites 1", above;

#1 1

requests the Secretary-General

to bring this Resolution to the attention of IMO and ICAO.

INTERNATIONAL TELECOMMUNICATION UNION

Document DT/78-E 10 October 1987 Original: English

Source: Documents 232, 376

COMMITTEE 6

NOTE BY THE CHAIRMAN OF COMMITTEE 6

A draft Article 56 is given in Annex 1. The text up to ADD 3986A is largely editorial, and is as discussed on 10 October 1987.

The text of 3986E includes the substance of Regulation [X], Document 376, as modified by proposals made in Committee 6.

The wider application of Regulation [X] should be discussed further by Committee 6.

Regulation [XX] and Resolution No. [COM6/5] have been included in Annex 2 for convenience.

> I.R. HUTCHINGS Chairman of Committee 6

Annexes: 2

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ANNEX 1

NOC		DRAFT ARTICLE 56	
MOD		Personnel of Stations in the Maritime Mobile and the Maritime Mobile-Satellite Service	
MOD		Section I. Personnel of Coast Stations and Coast Earth Stations	
MOD	3979	Administrations shall ensure that the staff on duty in coast stations and in coast earth stations shall be adequately qualified to operate the stations efficiently.	
MOD		Section II. Class and Minimum Number of Operators for Stations on board Ships using the Frequencies and Techniques as prescribed in Chapter IX	
NOC	3980-39	86	
ADD Section III. Class and Minimum Number of Operators for Ship Stations and Ship Earth Stations on board Ships using the Frequencies and Techniques prescribed in Chapter N IX			
ADD	3986A	§ 4. The personnel of ship stations for which a radio installation is made compulsory by international agreements and which are using the frequencies and techniques prescribed in Chapter N IX shall, with respect to the provisions of Article 55, include at least:	
ADD	3986B	 a) ship stations on board passenger ships which sail beyond the range of MF coast stations: one operator holding a first-class radio electronic [operator's] [officer's] certificate; 	
ADD	3986C	 b) ship stations on board ships other than passenger ships which sail beyond the range of MF coast stations: one operator holding a first- or a second-class radio electronic [operator's] [officer's] certificate; 	

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ADD 3986D

c) ship stations on board passenger ships which sail within the range of MF coast stations: one operator holding a first- or a second-class radio electronic [operator's] [officer's] certificate;

ADD 3986E

- d) ship stations on board ships other than passenger ships which sail within the range of MF coast stations:
 one operator holding a first- or a second-class radio electronic [operator's] officer's] certificate or a general operator's certificate where a general operator's certificate is used under this regulation, administrations shall, for
 - ship stations of their nationality, make alternative provision to ensure equipment availability whilst at sea, e.g. a first-class technical certificate (No. 3949E) or a second-class technical certificate (No. 3949F), in accordance with appropriate international agreements;

ADD 3986F

e) ship stations on board ships which sail within the range of VHF coast stations: one operator holding a first- or a second-class radio electronic [operator's] [officer's] certificate or a general operator's certificate or a restricted operator's certificate.

ADD 3986G § 5. The personnel of ship stations for which a radio installation is not made compulsory by international agreements and which are using the frequencies and techniques prescribed in Chapter N IX, shall, with regard to the provisions of Article 55, include at least:

ADD 3986H a) ship stations on board ships which sail beyond the range of MF coast stations: one operator holding a first-or a second-class radio electronic [operator's] [officer's] certificate or a general operator's certificate;

ADD 39861 b) ship stations on board ships which sail within the range of MF coast stations: one operator holding a first- or a second-class radio electronic [operator's] [officer's] certificate or a general operator's certificate or a restricted operator's certificate.

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ANNEX 2

ADD [xx] Instead of the radio electronic [operator's] [officer's] certificate required in No. [3986C], administrations may, for ship stations under their jurisdiction, require a general operator's certificate and an alternative provision for maintenance of equipment to ensure communication availability whilst at sea, taking into account Resolution [COM6/5] and in accordance with appropriate international agreements.

Resolutions

ADD

DRAFT RESOLUTION [COM6/5]

Relating to Personnel of Stations in the Maritime Mobile and Maritime Mobile-Satellite Services

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that the IMO has adopted the basic requirements for the GMDSS;

b) that the IMO intends to proceed with the introduction of the GMDSS and will consider the details and timing of this introduction in 1988;

c) that this Conference has placed in Chapter N IX the provisions which are required for the GMDSS to be implemented;

d) that this Conference has amended Articles 55 and 56 to include provisions for the personnel of stations in the maritime mobile and maritime mobile-satellite services using the frequencies and techniques prescribed in Chapter N IX;

recognizing

the provisions of No. [3986C] and No. [xx];

resolves

1. to urge administrations which use the provisions of No. [xx] to limit the application to those ships which:

 a) have short international voyages in the course of which a ship is not more than 200 miles from a port or place in which the passengers and crew could be placed in safety, and which does not exceed 600 miles in length between the last port of call in the country in which the voyage begins and the final port of destination;

[or

b) have regular trading patterns between ports where adequate repair facilities are available;]

or

c) have gross tonnage not exceeding [1600] tons;

2. that a future competent WARC should be requested to review the provisions of Articles 55 and 56 and this Resolution in the light of experience gained up to that time;

invites

1. the Secretary-General to bring this Resolution to the attention of the IMO;

2. the Administrative Council to take the necessary action to place this matter on the agenda of the next competent WARC.

INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/79-E 13 October 1987 Original : French

BUDGET CONTROL COMMITTEE

Draft

REPORT OF THE BUDGET CONTROL COMMITTEE

TO THE PLENARY MEETING

The Budget Control Committee held 4 meetings during the Conference 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.

Determination of the organization and facilities available to 1. delegates

The Committee took note of the fact that no delegation had made any comments on the subject of the organization and facilities or the administrative arrangements made by the Secretary-General. It expressed the view that the organization and the arrangements made by the Secretary-General had been entirely satisfactory and thanked him and his staff for the same, especially in view of the fact that expenditure was kept well below the budget.

2. Conference budget

The Budget Control Committee examined the Conference budget, amounting to 1,916,000 Swiss francs, which was approved by the Administrative Council at its 41st session (1986).

The Committee noted that the Conference budget did not comprise expenditure on common services supernumerary staff salaries, which are charged to a special section of the ordinary budget. This expenditure was estimated at 1,069,000 Swiss francs.

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In addition, the Committee noted that the Conference budget had been adjusted 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. As a result of these adjustments, the budget of the Conference stands at 1,855,400 Swiss francs, i.e. a decrease of 60,600 Swiss francs.

3. Final Acts

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

"... if a conference or meeting 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 costs shall be decided by the Plenary Meeting of the conference or meeting."

As all the documents which can be used as a basis for the sales edition of the Final Acts of the Conference are prepared using word processing systems, no expenditure under this heading need be charged to the supplementary publications budget.

On the other hand, in accordance with the provisions of Nos. 119 and 122 of the Convention (Nairobi, 1982), the costs of translating the Final Acts of the Conference into the six official languages are charged to the Conference.

4. Situation of the 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 Conference.

Accordingly, Annex 1 contains a statement showing the Conference budget, as approved by the Administrative Council and adjusted under Resolution No. 647, together with a breakdown of credits among the budget sub-heads and items as well as the actual expenditure incurred as at 10 October 1987. There is also an indication of the expenditure committed up to that date and an estimate of expenditure up to the close of the Conference's work.

The above statement shows that the total amount to be charged to the ordinary budget for WARC-MOB 87 is estimated at 1,692,300 Swiss francs, i.e. 163,100 Swiss francs less than the amount allocated by the Administrative Council and adjusted under Resolution No. 647. It can therefore be assumed that Conference expenditure will remain within the limits laid down. Annex 2 to this document show, for information, the situation of expenditure on preparatory work for Study Group 8 of the CCIR and for the Regional Administrative Conference (EMA), 1985.

Expenditure limit fixed by Additional Protocol I to the Convention (Nairobi, 1982)

5.

Committee 3 considered the situation of Conference expenditure, including expenditure on preparatory work, in relation to the expenditure limit fixed for WARC-MOB 87 by the Plenipotentiary Conference (see Annex 3 to this document). It is noted that the expenditure limit of 4,600,000 Swiss francs may leave a credit balance of 1,656,000 Swiss francs and this, without taking into account the margins existing in the Conference's accounts.

6. <u>Recognized private operating agencies and international</u> organizations taking part in the Conference

Under Article 16 of the Financial Regulations, the report of the Budget Control Committee must include a list of the recognized private operating agencies and international organizations which contribute to the expenses of the Conference. To this shall be added a list of the international organizations which have been exempted from payment in accordance with Resolution No. 925 of the Administrative Council.

A list is found in Annex 4 to this document.

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

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 Conference. 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.

In this connection, it is recalled that, in the budget approved for 1988, the Administrative Council made a <u>global</u> provision of 30,000 Swiss francs for post conference work to be done by the General Secretariat.

(will be completed latery)

In accordance with No. 479 of the Convention, this report, after consideration and approval, will be transmitted to the Secretary-General, together with the observations of the Plenary Meeting, for submission to the Administrative Council at its next session.

The Plenary Meeting is requested to examine this report.

Dr. M.K. RAO Chairman of the Budget Control Committee

Annexes : 4

ANNEX 1

Situation of accounts for WARC MOB (1987) as at 10 October 1987

Heading		Budget approved	Budget adjusted	Expenditure at 10.10.1987		
		by AC	on 01.09.87	actual	committed estimated	total
	col.	1	2	3	4	5
			thousands	of Swis	s francs	
Sub. II	Staff expenditure					
	Salaries & relat.exp.	1394	1333	9	1092	1101
11.622	Travel (recruitment)	81	81	4	48	52
11.623	Insurance	.36	.36	0	31	31
		1511	1450	13	1171	1184
Sub.III	Premises & equip.					
11.631	Prem., furniture, mach.	47	47	0	44	44
11.632	Document production	110	110	30	138	168
11.633	Office supp.& overh.	45	45	22	36	58
11.634	PTT	80	80	48	21	69
11.635	Techn. installat.	5	5	5	0	5
11.636	Sundry & unforeseen	10	10	11	4	15
	-	297	297	116	243	359
Sub.IV	Other expenditure					
11.643	Finals Acts	108	108	0	149	149
TOTAL, S	ECTION 11.6	1916	1855	129	1563	1692

UNUSED CREDITS

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Col. 2 Budget including additional credits to take account of changes in the common system of the United Nations and its specialized agencies.

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ANNEX 2

Preparatory work in 1986 for the WARC MOB 87

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	Budget	1986	
	1986*)	Accounts	
	- Swiss francs -		
T		à	
Items			
Sub-head I Staff expenditure			
11.611 Salaries and related expenses	192,400	138,285.85	
11.611 Salaries and related expenses 11.612 Travel (recruitment)	44,000	8,092.65	
11.613 Insurance	5,000	1,323.80	
	241 400	1/7 700 00	
	241,400	147,702.30	
Sub-head II Premises and equipment			
11.621 Premises, furniture, machines	10,000	13,306.31	
11.622 Document production	17,000	20,040.55	
11.623 Office supplies and expenses	15,000	6,446.35	
ll.624 PTT ll.625 Technical installations	15,000	5,973.90	
11.625 Sundry and unforeseen	10,000	1,726.34	
	67,000	47,493.45	
	308,400	195,195.75	

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*) Budget 1986 including additional credits

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ANNEX 3

	Sections 11 and 17			
WARC MOB 87	Limit on expenditure Add.Prot.I	Actual or estimated expenditure	Difference	
	- Swiss francs -			
Limit on expenditure	4,600,000			
1986 : Preparatory work		* 270,000		
1987 : Cost of the Conference		** 2,630,000		
1988 : Post-Conference work	-	** 44,000		
	4,600,000	2,944,000	1,656,000	

Expenditure limit fixed by Additional Protocol I to the Convention (Nairobi, 1982)

The figures given in the table correspond to 1 September values.

* Actual expenses

** Expenses provided for in the budget.

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ANNEX 4

List of recognized private operating agencies and international

Organizations contributing to the work of the conference

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		No. of contributory
		units
I.	Recognized private operating agencies	
	None	
II.	International organizations	
II.1	United Nations	. *)
11.2	Specialized agencies	and the second second second
	International Civil Aviation Organization	*)
	International Maritime Organization	*)
	World Meteorological Organization	*)
11.3	Regional telecommuication organizations	
	European Conference of Postal and Telecommunications Administrations	*)
	Arab Telecommunication Union	*)
	· Panafrican Telecommunication Union	*)
11.4	Other international organizations	
	European Space Agency	1/2
	International Air Transport Association	*)
	International Association of Lighthouse Authorities	1/2
	International Chamber of Shipping	1/2
	International Committee of the Red Cross	*)
	International Maritime Radio Association	*)
	International Electrotechnical Commission	*)

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International Transport Workers' Federation	1/2
International Maritime Satellite Organization	1/2
International Telecommunications Satellite Organization	1/2
International Society for Aeronautical Telecommunications	1/2
International Amateur Radio Union	*)

*) Exempted from any contribution by Administrative Council Resolution No. 925.

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Document DT/80-E 13 October 1987 Original: English · ; .

COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

Attached is the text concerning the new footnote (RDSS feeder links in Region 2), and the necessary amendment to RR 39.

> O. VILLANYI Chairman of Committee 4

nnex: 1

ANNEX

1. ADD 797A In Region 2, the band 5 150 - 5 216 MHz is also allocated to the radiodetermination-satellite service (space-to-Earth) on a primary basis for use by feeder links in conjunction with the radiodetermination-satellite service operating in the bands 1 610 - 1 626.5 MHz and [2 483.5 - 2 500 MHz]. The total power flux density at the Earth's surface shall in no case exceed -159 dBW/m² per 4 kHz for all angles of arrival.

2. <u>Add</u> the following sentence to the definition for the radiodeterminationsatellite service:

MOD 39 This service may also include feeder links necessary for its operation.



INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA. September-October 1987

Document DT/81-E 13 October 1987 Original: English

COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

Attached is a draft Recommendation, prepared by a small Drafting Group, as requested at the fifteenth meeting of Committee 4 (morning session), concerning the band 5 000 - 5 250 MHz.

> 0. VILLANYI Chairman of Committee 4

Annex: 1

- 2 -MOB-87/DT/81-E

DRAFT RECOMMENDATION [COM4/F]

Relating to the Future Requirements of the Band 5 000 - 5 250 for the Aeronautical Radionavigation Service

The World Administrative Radio Conference for the Mobile Services, Geneva, 1987,

considering

a) that there is a demand for additional frequency allocations for the mobile service, particularly the land mobile service;

b) that all systems utilizing the radio frequency spectrum should be efficient in their use of this scarce resource;

c) that within the band 5 000 - 5 250 the internationally agreed microwave landing system (MLS) is presently in the process of implementation;

d) that the protection of this vital aeronautical radionavigation system is paramount;

e) that the final MLS may not require at all locations the complete band 5 000 - 5 250 for its full implementation;

f) that ICAO is studying the requirements of this band for MLS and other aeronautical radionavigation systems and has come to the conclusion that no change should be made;

recommends

1. that a future competent world administrative conference consider the requirements of the aeronautical radionavigation service in the band 5 000 5 250 MHz and if appropriate the possibility of sharing a portion of the band with other services;

2. that any sharing should be based on a detailed technical evaluation of the systems in this band taking into account the ICAO reports on the evaluation of future world traffic of aircrafts using this band;

3. that the Conference mentioned in recommends 1. above should consider an allocation to the mobile service in any portion of the band considered to be capable of being shared;

invites the CCIR

to study the possibility of sharing a portion of the 5 000 - 5 250 MHz band not required by the MLS system and any other aeronautical radionavigation system;

invites the Administrative Council

to place this Recommendation on the agenda of the appropriate future competent world administrative radio conference;

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requests the Secretary-General

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to refer this Recommendation to ICAO inviting their consideration of the requirements of the aeronautical radionavigation service in the band 5 000 - 5 250 MHz and to make appropriate Recommendations to assist administrations in this matter.

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INTERNATIONAL TELECOMMUNICATION UNION WARC FOR THE MOBILE SERVICES GENEVA, September-October 1987

Document DT/82-E 14 October 1987 Original: French/ English

BUDGET CONTROL COMMITTEE

Note by the Secretary-General

FINANCIAL IMPLICATIONS OF THE DISCUSSIONS OF WARC MOB-87

Further to the note by the Chairman of the Budget Control Committee to the Chairman of Committees 4, 5 and 6 and Working Groups of the Plenary Meeting (Document 162) and to the letter by the Chairman of Committee 3 to the Secretary-General, the financial implications of the work of the Conference are set out below.

a) General Secretariat

Reference MOB-87 Document 431 - Article 26, Service Documents.

The additional costs envisaged for the publication of the List of Coast Stations (List IV), bearing in mind not only the implementation of the GMDSS but also the results of the changes to the HF bands allocated on an exclusive or shared basis to the MMS, i.e. 3.0 kHz in lieu of 3.1 kHz, and on the assumption that the requirements will not be effective until 1990, preparatory work will have to commence in 1989.

The estimated additional expenditure for:

1989 is 56,000 Swiss francs, and for 1990 is 28,000 Swiss francs.

b) IFRB

The Chairman of the IFRB has informed me of the financial implications of the decisions of the Conference on the work of the IFRB.

He especially informed me of a preliminary estimate of the IFRB requirements of manpower and other resources to implement the decisions of the WARC MOB-87 as they are already taken, or are likely to be taken, on the basis of the outputs of various Committees of the Conference. He has indicated that these are preliminary estimates and the Board will have to study in depth the decisions of the Conference, and prepare a document for the 43rd session of the Administrative Council in 1988.

- 2 -MOB-87/DT/82

The IFRB's requirements have the following financial implications:

Staff costs

24 man-months at P4 level 18 man-months at G5 level	275,000 Sw.frs. 95,000 Sw.frs.
Office accommodation, office equipment, office supplies and furniture	370,000 Sw.frs.
	80,000 Sw.frs.
	450,000 Sw.frs.

The details of the IFRB requirements are found in Annex A.

c) <u>CCIR</u>

According to information provided by the Director of the CCIR, no additional expenditure is expected to arise from the decisions of the Conference.

R.E. BUTLER

Secretary-General

- 3 -MOB-87/DT/82

ANNEX A

Note by the IFRB

FINANCIAL IMPLICATIONS OF THE DECISIONS OF WARC MOB-87

From the activities of the various Committees, as well as the decisions taken by the Plenary and the Committees, it is evident that the major tasks for the IFRB arise from the decisions of Committee 4. Some of these decisions represent one-time tasks and require execution prior to the entry into force of the Final Acts of the Conference during the period in the calendar years 1988/89. Some other tasks are of an ongoing nature, and have to be carried out from the date of entry into force.

2. The tasks of an ongoing nature are more or less a continuation of the tasks which the Board already carries out in conformity with the provisions of the Radio Regulations, such as Article 16 and Resolution No. 300. Any additional tasks of this type arising from the decisions of the present Conference can be absorbed by the available manpower within the IFRB, and do not require any additional resources.

3. The tasks which have to be executed on a one-time basis during the period 1988/89 result essentially from the rearrangement of the frequency bands allocated exclusively to the maritime mobile service between 4 and 27.5 MHz. Some of the major tasks in this group are listed below:

- establishment of initial allotment plan for coast radiotelephone transmitting stations for the additional channels in Appendix 25 (commencement of the work in early 1988 and termination by mid-1989) (Resolution COM4/6);
- ii) transfer of allotments in the present Appendix 25 to frequencies in the revised Appendix 25 (Resolution COM4/7);
- iii) transfer of assignments from the present paired NBDP channels to the revised NBDP channels (Resolution COM4/10);
- iv) transfer of assignments to coast radiotelegraph stations (Resolution COM4/11).

4. There are many other additional tasks which the Board has identified which are not listed below, but can be explained to Committee 3 and to the Plenary, if required. Taken individually these tasks may appear to be minor, but when considered together they represent a substantial additional workload on the Specialized Secretariat of the IFRB. These tasks can be categorized into two groups:

- a) tasks requiring review and updating of the Master International Frequency Register;
- b) revision and updating of the Technical Standards and Rules of Procedure of the IFRB relating to the treatment of frequency assignment notices of stations in the mobile services.

5. There is also the task of continuation of the monitoring activities in the frequency bands allocated to the aeronautical mobile, maritime mobile, radionavigation and radiodetermination services. Although this task represents ongoing work, the Board has to examine the implications of the Resolution on the subject which does represent a certain amount of one-time additional tasks. - 4 -MOB-87/DT/82

6. Without giving a detailed breakdown of the manpower requirements for executing each of the tasks resulting from specific decisions of the Conference, the Board has considered the overall impact of the additional workload on the available resources, and has concluded that some additional manpower will be necessary to execute the immediate post-conference work, comprising a certain number of one-time tasks. The additional manpower requirements amount to the preliminary estimates as given below:

24 man-months at P4 level (Engineer/System Analyst)

18 man-months at G5 level (Administrative assistance including Data Capture)

7. Associated with these manpower requirements, it is necessary to foresee a provision for office accommodation, office equipment, office supplies and furniture. This is estimated to be approximately 80,000 Swiss francs.

8. The Board endeavoured to include in its normal work the greatest number of tasks referred to in paragraph 4 above. The above estimates could only be reduced to this level by modifying the priorities of the Frequency Management System (FMS).