INTERNATIONAL TELECOMMUNICATION UNION

FINAL ACTS

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

Geneva, 1985

Geneva 1986

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RECOMMENDATIONS

REGIONAL AGREEMENT

Concerning the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1)

(Geneva, 1985)

PREAMBLE

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

People's Democratic Republic of Algeria, Federal Republic of Germany, People's Republic of Angola, Kingdom of Saudi Arabia, Austria, State of Bahrain, Belgium, People's Republic of Benin, People's Republic of Bulgaria, Republic of Cameroon, Republic of Cyprus, Republic of the Ivory Coast, Denmark, Arab Republic of Egypt, Spain, Finland, France, Ghana, Greece, Republic of Guinea, Hungarian People's Republic, Republic of Iraq, Ireland, State of Israel, Italy, Republic of Kenya, State of Kuwait, Socialist People's Libyan Arab Jamahiriya, Democratic Republic of Madagascar, Republic of Malta, Kingdom of Morocco, Monaco, Norway, Sultanate of Oman, Kingdom of the Netherlands, People's Republic of Poland, Portugal, State of Qatar, German Democratic Republic, Socialist Republic of Romania, United Kingdom of Great Britain and Northern Ireland, Sweden, Confederation of Switzerland, Republic of Chad, Czechoslovak Socialist Republic, Tunisia, Turkey, Union of Soviet Socialist Republics, Socialist Federal Republic of Yugoslavia,

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

ARTICLE 1

Definitions

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

1.1 *Union:* The International Telecommunication Union;

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

1.3 *IFRB:* The International Frequency Registration Board (also referred to as the Board);

1.4 *CCIR:* The International Radio Consultative Committee;

1.5 *ICAO:* The International Civil Aviation Organization;

1.6 *Convention:* The International Telecommunication Convention, Nairobi, 1982;

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

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

1.9 *Agreement:* The whole of this Agreement including its Annexes;

1.10 *Plans:* The Plans forming Annexes 1 and 2 to this Agreement;

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

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

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

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

ARTICLE 2

Frequency Bands

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

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

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

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

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

These provisions also apply to:

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

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

ARTICLE 3

Execution of this Agreement

3.1 The Contracting Members shall adopt, for their stations in the aeronautical radionavigation service operating in Region 1 in the frequency bands referred to in this Agreement, the characteristics specified in the Plan in Annex 2.

3.2 The Contracting Members shall adopt, for their stations in the maritime mobile service operating in Region 1 in the frequency bands referred to in this Agreement, the characteristics specified in the Plan in Annex 1.

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

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

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

3.6 In order to avoid mutual interference between stations in the Plan, Administrations shall take all necessary and practicable steps to ensure that the frequencies used for radiotelephony in the bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz are used only within the coverage area specified in the Plan.

ARTICLE 4

Procedure for Modifications to the Plans

SECTION A – GENERAL

4.1 When a Contracting Member proposes to make a modification to a Plan:

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

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

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

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

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

SECTION B – PROCEDURE FOR THE MARITIME MOBILE SERVICE

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

4.2 The provisions of this section apply equally to transmitting and receiving coast stations. The agreement referred to in this section shall apply to pairs of frequencies as indicated in Annex 3.

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

4.4 For the purposes of this procedure, these other administrations shall be any which have:

a) assignments in the Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex 5 to this Agreement;

b) assignments recorded in the Master Register for stations of services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are allocated on a primary or permitted basis which may be affected according to the provisions of No. 1241 of the Radio Regulations together with the technical criteria contained in Annex 6 to this Agreement.

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

4.6 The IFRB shall examine the information received from the standpoint of its conformity with the channelling arrangement contained in Annex 3 to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

4.7 The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in paragraph 4.4 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board, shall at the same time, inform those administrations having assignments which it considers, in accordance with paragraph 4.4, may be affected.

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

4.9 If an administration has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 4.7, the IFRB shall send a reminder to the administration concerned inviting it to reply urgently to the request for agreement within 15 days from the date of the reminder. If, at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

4.10 If, in seeking agreement, an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administration with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of paragraph 4.4 and the subsequent procedure for those administrations.

4.11 Following the expiry of the period specified in paragraph 4.9, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

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

4.13 Before initiating this procedure and at any stage thereof, an administration may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

4.14 If, after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also paragraph 4.33).

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

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

SECTION C – PROCEDURE FOR THE AERONAUTICAL RADIONAVIGATION SERVICE

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

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

4.18 For the purposes of this procedure, these other administrations shall be those which have assignments in the Plans for the same frequency band and whose service may be affected according to the criteria specified in Annex 5 to this Agreement.

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

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

4.21 The IFRB shall examine the information received from the standpoint of its conformity with the channelling arrangement contained in Annex 3 to this Agreement. Proposed modifications which are not in conformity with the appropriate channelling arrangement shall be returned to the administration concerned.

4.22 The IFRB shall examine the information received in order to identify the administrations having frequency assignments which may be affected as indicated in paragraph 4.18 above. The results of this examination shall be sent immediately by the IFRB to the administration proposing the modification or addition to the Plan in question. The IFRB shall include the names of those administrations in the information received and shall publish the complete information in a special section of its weekly circular. The Board, shall at the same time, inform those administrations having assignments which it considers, in accordance with paragraph 4.18, may be affected.

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

4.24 If an administration has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 4.22, the IFRB shall send a reminder to the administration concerned inviting it to reply urgently to the request for agreement within 15 days from the date of the reminder. If at the expiry of the two periods of 90 days and 15 days respectively, the administration concerned has still not communicated its agreement or disagreement, it shall be understood to have agreed to the proposed modification or addition.

4.25 If, in seeking agreement, an administration modifies its initial proposal in such a way as to increase the probability of interference to the assignment of an administration with which agreement has been sought, or to affect the assignment of an administration not previously involved, it shall again apply the provisions of paragraph 4.18 and the subsequent procedure for those administrations.

4.26 Following expiry of the period specified in paragraph 4.24, or when agreement has been reached with the administrations concerned, the administration proposing the modification or addition shall inform the IFRB of the results, indicating the agreed characteristics of the assignment together with the names of the administrations with which agreement has been reached.

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

4.28 Before initiating this procedure and at any stage thereof, an administration may request the assistance of the IFRB, particularly in seeking the agreement of another administration.

4.29 If, after application of the procedure described in this section agreement has been reached with all administrations involved, the Board shall publish an appropriate modification to the Plan (see also paragraph 4.33).

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

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

SECTION D – CANCELLATION OF ASSIGNMENTS

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

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

4.34 Every three years, the Board shall consult administrations of Contracting Members with a view to drawing their attention to Recommendation No. 7 and to request them to cancel assignments appearing in the Plans adopted by the Conference and which are no longer required; the Board shall also inform Contracting Members of the results of these consultations.

SECTION E – MAINTENANCE AND PUBLICATION OF PLANS

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

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

ARTICLE 5

Notification of Frequency Assignments

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

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

5.3 Notices of frequency assignments submitted under paragraphs 4.16 and 4.31 of Article 4 for which it has not been possible to reach agreement shall be treated as follows:

a) when the disagreement of the administration concerned relates to an assignment in conformity with this Agreement, the notified assignment shall be recorded in the Master Register with a special remark indicating that the entry has been made subject to the condition that no harmful interference shall be caused to the assignment of the administration with which agreement has not been reached;

b) when the disagreement of the administration concerned relates to an assignment recorded in the Master Register for a station of a primary or permitted service, the notified assignment shall not be recorded in the Master Register until the provisions of No. 1255 of the Radio Regulations have been applied.

5.4 Notices of frequency assignments to receiving coast stations submitted under paragraph 4.16 of Article 4 for which it has not been possible to reach an agreement shall be recorded in the Master Register with a special remark indicating that the entry has been made subject to the condition that no protection shall be claimed against any harmful interference that may be caused by the assignment of the administration with which agreement has not been reached.

5.5 In relations between Contracting Members, all frequency assignments brought into service in conformity with this Agreement and recorded in the Master Register shall be considered as having the same status irrespective of the date or dates entered in Column 2 for such assignments.

ARTICLE 6

Procedure Applicable to New Assignments in the Non-Planned Permitted and Primary Services

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

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

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

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

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

d) which was published in a special section of the weekly circular in accordance with paragraph 4.7 (Article 4).

6.3 In the event of an unfavourable finding relating to a frequency assignment described in paragraphs 6.2 *c)* or 6.2 *d)*, if the administration resubmits the notice under No. 1255 of the Radio Regulations, the period of two months specified in No. 1259 shall not start until the assignment which forms the basis for the unfavourable finding is brought into service.

6.4 For the purpose of these examinations, the Board shall apply the technical criteria contained in Annex 6 to this Agreement.

ARTICLE 7

Special Arrangements

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

ARTICLE 8

Scope of Application of this Agreement

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

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

ARTICLE 9

Approval of this Agreement

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

ARTICLE 10

Accession to this Agreement

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

ARTICLE 11

Termination of Participation in this Agreement

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

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

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

ARTICLE 12

Revision of the Agreement

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

ARTICLE 13

Abrogation and Replacement of the Copenhagen Convention, 1948 and the Copenhagen Plan Annexed Thereto

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

ARTICLE 14

Entry into Force of this Agreement

14.1 This Agreement shall enter into force on 1st April, 1992 at 0001 hours UTC except for the bands 490 - 495 kHz and 505 - 510 kHz to which the Agreement shall be applied as from the date, if later, to be adopted by a competent administrative radio conference in accordance with No. 471 of the Radio Regulations and Resolution No. 206 (Mob-83) of the World Administrative Radio Conference for Mobile Services (Geneva, 1983).

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

Done at Geneva, 15 March 1985.

For the People's Democratic Republic of Algeria:

N. BOUHIRED
A. HAMOUI
M. SAIS
T. BENACER

In the name of the Federal Republic of Germany:

FRIEDRICH G. WIEFELSPÜTZ
EBERHARD GEORGE

For the People's Republic of Angola:

JOÃO-PEDRO LUBANZA
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For the People's Republic of Benin:

AGNAN BARTHELEMY

For the People's Republic of Bulgaria:

D. STAMATOV

For the Republic of Cameroon:

SONFACK PIERRE
MOLOU MARTIN
SILATCHONG EMMANUEL
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For the Republic of Cyprus:

ANDREAS XENOPHONTOS
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For the Republic of the Ivory Coast:

YAO KOUAKOU
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MAHMOUD M. S. EL-NEMR

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For the State of Kuwait:

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ALEXANDER BONNICI

For the Kingdom of Morocco:

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For Monaco:

CESAR CHARLES SOLAMITO

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For the Sultanate of Oman:

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For the German Democratic Republic:

D. ZAMZOW

For the Socialist Republic of Romania:

CONSTANTIN CEAUŞESCU

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MICHAEL PETER DAVIES
MICHAEL JOHN BATES
LESLIE WILLIAM BARCLAY

For Sweden:

KRISTER BJÖRNSJÖ
LARS BERGMAN
BO JÄDERLUND
ANDERS EKLUND
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For the Confederation of Switzerland:

H. BLASER
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For the Republic of Chad:

YOUSSOUF ADOUM

For the Czechoslovak Socialist Republic:

BUKOVIANSKY GREGOR

For Tunisia:

M. SALEM BCHINI

For Turkey:

IBRAHIM GÖKSEL
HÜSEYIN GÜLER

For the Union of Soviet Socialist Republics:

B. CHIRKOV

For the Socialist Federal Republic of Yugoslavia:

Dr. DRAŠKO MARIN

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ANNEX 1

Frequency Assignment Plan (Region 1) for Stations of the Maritime Mobile Service in the Bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

Column	*Plan column headings*
1.	*Assigned frequency (kHz)*
2.	*Channel number*
3.	*Country symbol*
4.	*Transmitting coast station name*
5.	*Symbol of the country or geographical area in which the station is located* (see Table 1 in the Preface to the International Frequency List)
6.	*Longitude and latitude* (in degrees and minutes) *of the transmitting station*
7.	*Service range (km)*
8.	*Nature of service*
9.	*Class of emission*[1]
10.	*Necessary transmitting power:*
	10a: *effective monopole radiated power (e.m.r.p.) (dBW)* (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)
	10b: *power supplied to the antenna transmission line (dBW)* (calculated value: e.m.r.p. + 7 dB (for the 500 kHz band) e.m.r.p. + 4 dB (for the 2 MHz band))
11.	*Antenna characteristics*
	11a: *azimuth of maximum radiation* (ND for non-directional antenna) (*degrees*)
	11b: *maximum antenna gain (dB)*
	11c: *angular width of the main lobe (degrees)*
12.	*Normal hours of operation (UTC)* of frequency assignment
13.	*Remarks*

TEXT FOR THE SYMBOL IN REMARKS COLUMN OF THE PLAN

1. The assignments to these stations have been included in the Plan and are to be protected in application of Article 4 of the Agreement even though the frequency is not included in Annex 3.

[1] In the frequency bands between 415 and 526.5 kHz, A1A emissions may be used on F1B assignments and vice-versa.

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
										Necessary transmitting power		Antenna characteristics			
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
416.00	2	URS	IALTA	UKR	034E10 44N39	200	CP	F1B	0	7	ND			0000 2359	
419.50	9	I	CAGLIARI	I	009E07 39N15	100	CP	F1B	-7	0	ND			0000 2359	
421.50	13	I	BARI	I	017E25 40N26	100	CP	F1B	-7	0	ND			0000 2359	
422.00	14	I	BARI	I	017E25 40N26	100	CP	F1B	-7	0	ND			0000 2359	
422.00	14	URS	SEVASTOPOL	UKR	033E32 44N34	200	CO	F1B	0	7	ND			0000 2359	
422.00	14	URS	SEVASTOPOL	UKR	033E32 44N34	100	CO	F1B	-7	0	ND			0000 2359	
423.50	17	I	NAPOLI	I	014E14 40N42	100	CO	F1B	-7	0	ND			0000 2359	
424.00	18	I	CAGLIARI	I	009E07 39N15	100	CP	F1B	-7	0	ND			0000 2359	
428.00	26	URS	ODESSA	UKR	030E45 46N29	350	OT	F1B	7	14	ND			0000 2359	
428.50	27	URS	KLAIPEDA	URS	021E12 55N46	100	CP	F1B	-7	0	ND			0000 2359	
428.50	27	URS	KLAIPEDA	URS	021E12 55N46	100	CP	F1B	-7	0	ND			0000 2359	
430.50	31	I	ROMA	I	012E31 41N48	100	CP	F1B	-7	0	ND			0000 2359	
431.00	32	I	ROMA	I	012E31 41N48	100	CP	F1B	-7	0	ND			0000 2359	
432.00	34	I	NAPOLI	I	014E14 40N50	100	CP	F1B	-7	0	ND			0000 2359	
433.00	36	DDR	RUEGEN	DDR	013E37 54N35	100	CP	F1B	-7	0	ND			0000 2359	
434.00	38	I	NAPOLI	I	014E14 40N50	100	CP	F1B	-7	0	ND			0000 2359	
434.50	39	I	ANCONA	I	013E28 43N36	100	CP	F1B	-7	0	ND			0000 2359	
434.50	39	I	NAPOLI	I	014E14 40N50	100	CP	F1B	-7	0	ND			0000 2359	
435.00		I	ANCONA	I	013E28 43N36	100	CP	F1B	-7	0	ND			0000 2359	1
435.00		I	NAPOLI	I	014E14 40N50	100	CP	F1B	-7	0	ND			0000 2359	1
435.00		URS	KERTCH	UKR	036E28 45N22	100	CO	F1B	-7	0	ND			0000 2359	1
435.00		URS	KERTCH	UKR	036E28 45N22	100	CO	F1B	-7	0	ND			0000 2359	1
435.00		URS	ODESSA	UKR	030E45 46N29	100	CO	F1B	-7	0	ND			0000 2359	1
435.00		URS	ODESSA	UKR	030E45 46N29	100	CO	F1B	-7	0	ND			0000 2359	1
435.50	40	AFS	TRISTANDACUNHA	TRC	012W19 35S03	500	CO	A1A	39	46	ND			0600 1800	
435.50	40	E	BAGUR RADIO	E	003E13 41N58	500	CP	F1B	14	21	ND			0000 2359	
435.50	40	EGY	KOSSEIR RADIO	EGY	034E17 26N06	500	CP	A1A	39	46	ND			0400 2200	
435.50	40	GAB	LIBREVILLE	GAB	009E26 00N25	500	CP	F1B	34	41	ND			0600 1800	
435.50	40	GRC	KERKYRA	GRC	019E54 39N37	370	CP	A1A	13	20	ND			0000 2359	
435.50	40	I	TRAPANI	I	012E31 38N01	80	CV	A1A	-4	3	ND			0800 1700	
435.50	40	IRQ	BASRAH	IRQ	047E47 30N33	100	CR	F1B	-7	0	ND			0000 2359	
435.50	40	MOZ	MAPUTO RADIONAVAL	MOZ	032E34 25S50	500	CO	A1A	39	46	ND			0000 2359	
435.50	40	POR	LAGES	AZR	027W06 38N46	500	CO	A1A	19	26	ND			0000 2359	
435.50	40	POR	LISBOA	POR	009W14 38N44	400	CP	F1B	10	17	ND			0000 2359	
435.50	40	S	KARLSKRONA RADIO	S	015E33 56N11	200	CP	F1B	0	7	ND			0000 2359	
435.50	40	URS	KHERSON	UKR	032E34 46N39	200	CO	A1A	5	12	ND			0000 2359	
435.50	40	URS	BAKU	URS	049E45 40N20	350	OT	A1A	12	19	ND			0000 2359	
435.50	40	URS	BAKU	URS	049E45 40N20	350	OT	F1B	7	14	ND			0000 2359	
435.50	40	URS	GURIEV	URS	051E55 47N03	200	CO	F1B	0	7	ND			0000 2359	
435.50	40	URS	GURIEV	URS	051E55 47N03	200	CO	A1A	5	12	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
435.50	40	URS	GURIEV	URS	051E55 47N03	200	CO	F1B	0	7	ND			0000 2359	
435.50	40	URS	GURIEV	URS	051E55 47N03	200	CO	A1A	5	12	ND			0000 2359	
435.50	40	URS	KANDALAKCHA	URS	032E29 67N10	200	CP	F1B	0	7	ND			0000 2359	
435.50	40	URS	KANDALAKCHA	URS	032E29 67N10	200	CP	A1A	5	12	ND			0000 2359	
435.50	40	URS	NARIAN-MAR	URS	053E00 67N39	350	CO	F1B	7	14	ND			0000 2359	
435.50	40	URS	NARIAN-MAR	URS	053E00 67N39	350	CO	F1B	7	14	ND			0000 2359	
435.50	40	YEM	HODEIDAH	YEM	042E54 14N55	500	CP	A1A	39	46	ND			0000 2359	
436.00	41	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	100	CP	F1B	-7	0	ND			0000 2359	
436.00	41	ALG	TENES RADIO	ALG	001E18 36N32	100	CP	F1B	-7	0	ND			0000 2359	
436.00	41	ARS	JEDDAHRADIO	ARS	039E10 21N23	500	CP	A1A	39	46	ND			0000 2359	
436.00	41	BUL	BOURGAS RADIO	BUL	027E29 42N30	500	CO	A1A	19	26	ND			0000 2359	
436.00	41	DNK	ROENNE	DNK	014E53 55N07	400	CO	A1A	15	22	ND			0000 2359	
436.00	41	F	TOULON	F	006E04 43N08	500	CO	F1B	14	21	ND			0000 2359	
436.00	41	G	CULLERCOATS RADIO	G	001W28 55N04	320	CP	F1B	6	13	ND			0000 2359	
436.00	41	I	MAZARA VALLO	I	012E34 37N38	100	CP	F1B	-7	0	ND			0000 2359	
436.00	41	LBY	TOBRUK	LBY	023E59 32N02	500	CV	A1A	19	26	ND			0000 2359	
436.00	41	MDG	ANTALAHA	MDG	050E16 14S53	350	CP	A1A	32	39	ND			0000 2359	
436.00	41	MOZ	BEIRA RADIO	MOZ	034E54 19S51	500	CP	F1B	34	41	ND			0000 2359	
436.00	41	NOR	BJOERNOEYA	NOR	019E01 74N31	370	CP	A1A	13	20	ND			0000 2359	
436.00	41	NOR	JAN MAYEN	NOR	008W40 70N57	370	CP	A1A	13	20	ND			0000 2359	
436.00	41	POR	S MIGUEL	AZR	025W39 37N45	400	CP	F1B	10	17	ND			0000 2359	
436.00	41	S	HAERNOESAND RADIO	S	021E36 64N28	500	CP	A1A	19	26	ND			0000 2359	
436.00	41	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	A1A	5	12	ND			0000 2359	
436.00	41	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	F1B	0	7	ND			0000 2359	
436.00	41	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	F1B	0	7	ND			0000 2359	
436.00	41	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	A1A	5	12	ND			0000 2359	
436.00	41	URS	GURIEV	URS	051E55 47N03	200	CP	A1A	5	12	ND			0000 2359	
436.00	41	URS	MEZEN	URS	044E17 65N51	200	CP	F1B	0	7	ND			0000 2359	
436.00	41	URS	TAGANROG	URS	038E53 47N13	200	CP	F1B	0	7	ND			0000 2359	
436.00	41	URS	TAGANROG	URS	038E53 47N13	200	CP	F1B	0	7	ND			0000 2359	
436.50	42	ALB	VLORE PT RADIO	ALB	019E29 40N27	400	CP	A1A	15	22	ND			0000 2359	
436.50	42	ALG	ORAN RADIO	ALG	000W08 35N46	100	CP	F1B	-7	0	ND			0000 2359	
436.50	42	ARS	DAMMAMRADIO	ARS	050E06 26N26	500	CP	F1B	34	41	ND			0000 2359	
436.50	42	CME	CAMPO	CME	009E51 02N22	400	OT	A1A	35	42	ND			0700 1900	
436.50	42	COG	POINTE NOIRE RADIO	COG	011E51 04S44	100	CP	F1B	13	20	ND			0000 2359	
436.50	42	F	ARCACHON	F	001W10 44N39	200	CP	F1B	0	7	ND			0000 2359	
436.50	42	F	DZAOUDZI	MYT	045E17 12S48	400	CP	F1B	30	37	ND			0000 2359	
436.50	42	GHA	TEMA	GHA	000W00 05N37	330	CP	A1A	31	38	ND			0000 2359	
436.50	42	KEN	MOMBASA RADIO	KEN	039E44 03S58	500	CP	F1B	34	41	ND			0000 2359	
436.50	42	MDG	TOLIARA	MDG	043E41 23S21	500	CP	F1B	34	41	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
436.50	42	MOZ	BEIRA RADIO	MOZ	034E54 19S51	200	CP	F1B	20	27	ND			0000 2359	
436.50	42	NOR	KRISTIANSAND S	NOR	007E59 58N03	370	CO	A1A	13	20	ND			0000 2359	
436.50	42	NOR	VARDOE	NOR	031E05 70N22	370	CP	A1A	13	20	ND			0000 2359	
436.50	42	POR	S MIGUEL	AZR	025W39 37N45	400	CP	A1A	15	22	ND			0000 2359	
436.50	42	POR	MADEIRA	MDR	016W50 32N38	400	CP	A1A	15	22	ND			0000 2359	
436.50	42	POR	LISBOA	POR	009W14 38N44	400	CP	A1A	15	22	ND			0000 2359	
436.50	42	TUN	TUNIS RADIO 2 MDN	TUN	010E11 36N53	300	CP	A1A	10	17	ND			0000 2359	
436.50	42	URS	SKADOVSK	UKR	032E56 46N07	200	CO	F1B	0	7	ND			0000 2359	
436.50	42	URS	SKADOVSK	UKR	032E56 46N07	200	CO	A1A	5	12	ND			0000 2359	
436.50	42	URS	KLAIPEDA	URS	021E12 55N46	100	CO	F1B	-7	0	ND			0000 2359	
436.50	42	URS	KLAIPEDA	URS	021E12 55N46	100	CO	F1B	-7	0	ND			0000 2359	
436.50	42	URS	NARIAN-MAR	URS	053E00 67N39	350	CO	F1B	7	14	ND			0000 2359	
436.50	42	URS	NARIAN-MAR	URS	053E00 67N39	350	CO	A1A	12	19	ND			0000 2359	
436.50	42	URS	NARIAN-MAR	URS	053E00 67N39	200	CO	F1B	0	7	ND			0000 2359	
436.50	42	URS	NARIAN-MAR	URS	053E00 67N39	200	CO	A1A	5	12	ND			0000 2359	
436.50	42	URS	ONEGA	URS	038E10 63N57	200	CP	A1A	5	12	ND			0000 2359	
436.50	42	URS	ONEGA	URS	038E10 63N57	200	CP	F1B	0	7	ND			0000 2359	
436.50	42	URS	VYBORG	URS	028E46 60N42	200	CP	A1A	5	12	ND			0000 2359	
436.50	42	URS	VYBORG	URS	028E46 60N42	200	CP	F1B	0	7	ND			0000 2359	
437.00	43	AFS	CAPE TOWN	AFS	018E43 33S41	500	CP	A1A	39	46	ND			0000 2359	
437.00	43	AFS	DURBAN	AFS	030E48 29S48	500	CP	A1A	39	46	ND			0000 2359	
437.00	43	AGL	LUANDA	AGL	013E14 08S47	200	CP	F1B	20	27	ND			0000 2359	
437.00	43	ALG	ORAN RADIO	ALG	000W08 35N46	500	CP	F1B	14	21	ND			0000 2359	
437.00	43	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	500	CP	F1B	14	21	ND			0000 2359	
437.00	43	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
437.00	43	CME	KRIBI	CME	009E43 02N53	400	CO	F1B	30	37	ND			0000 2359	
437.00	43	CVA	CITE DU VATICAN	CVA	012E27 41N55	500	OT	F1B	14	21	ND			0000 2359	
437.00	43	DJI	DJIBOUTI	DJI	043E08 11N36	500	CP	A1A	39	46	ND			0000 2359	
437.00	43	EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	500	CP	A1A	19	26	ND			0000 2359	
437.00	43	IRQ	BASRAH	IRQ	047E47 30N33	100	CV	F1B	-7	0	ND			0000 2359	
437.00	43	POR	HORTA	AZR	028W38 38N32	200	CO	F1B	0	7	ND			0000 2359	
437.00	43	POR	PORTO SANTO	MDR	016W20 33N05	500	CO	F1B	14	21	ND			0000 2359	
437.00	43	TUR	ZONGULDAK	TUR	031E48 41N27	250	CP	F1B	2	9	ND			0000 2359	
437.00	43	URS	KHERSON	UKR	032E34 46N39	200	CP	F1B	0	7	ND			0000 2359	
437.00	43	URS	KHERSON	UKR	032E34 46N39	100	CP	F1B	-7	0	ND			0000 2359	
437.00	43	URS	ASTRAKHAN	URS	047E42 46N55	100	CO	F1B	-7	0	ND			0000 2359	
437.00	43	URS	ASTRAKHAN	URS	047E42 46N55	100	CO	F1B	-7	0	ND			0000 2359	
437.00	43	URS	KHUDAT	URS	048E39 41N38	200	CO	A1A	5	12	ND			0000 2359	
437.00	43	URS	KHUDAT	URS	048E39 41N38	200	CO	F1B	0	7	ND			0000 2359	
437.00	43	URS	LIEPAIA	URS	021E02 56N43	200	CO	F1B	0	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
437.00	43	URS	LIEPAIA	URS	021E02 56N43	200	CO	F1B	0	7	ND			0000 2359	
437.00	43	URS	PICUNDA	URS	040E21 43N09	200	CO	F1B	0	7	ND			0000 2359	
437.00	43	URS	PICUNDA	URS	040E21 43N09	200	CO	F1B	0	7	ND			0000 2359	
437.00	43	URS	SUKHUMI	URS	040E42 43N00	200	CO	F1B	0	7	ND			0000 2359	
437.00	43	URS	SUKHUMI	URS	040E42 43N00	200	CO	A1A	5	12	ND			0000 2359	
437.50	44	AGL	CABINDA	AGL	012E11 05S34	500	CP	A1A	39	46	ND			0000 2359	
437.50	44	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
437.50	44	CME	DOUALA	CME	009E43 04N01	400	CO	A1A	35	42	ND			0000 2359	
437.50	44	CPV	PRAIA	CPV	023W30 14N55	200	CP	F1B	20	27	ND			0000 2359	
437.50	44	E	CABO PENAS RADIO	E	005W51 43N39	500	CP	F1B	14	21	ND			0000 2359	
437.50	44	F	AJACCIO	F	008E46 41N55	500	CO	F1B	14	21	ND			0000 2359	
437.50	44	GRC	ATHINAI	GRC	023E53 38N00	370	CP	A1A	13	20	ND			0000 2359	
437.50	44	IRQ	BASRAH	IRQ	047E47 30N33	100	CR	F1B	-7	0	ND			0000 2359	
437.50	44	LBY	TRIPOLI RADIO	LBY	013E11 32N54	280	CP	A1A	9	16	ND			0000 2359	
437.50	44	MDG	ANTSERANANA	MDG	049E17 12S17	500	CP	A1A	39	46	ND			0000 2359	
437.50	44	MDG	TOLIARA	MDG	043E41 23S21	500	CP	A1A	39	46	ND			0000 2359	
437.50	44	MTN	NOUADHIBOU RADIO	MTN	017W03 20N54	500	CP	F1B	34	41	ND			0800 1800	
437.50	44	NOR	AALESUND	NOR	006E12 62N28	180	CP	A1A	4	11	ND			0000 2359	
437.50	44	POR	S MIGUEL	AZR	025W39 37N45	400	CP	F1B	10	17	ND			0000 2359	
437.50	44	S	HAARSFJAERDEN RADIO	S	018E40 58N59	400	CO	A1A	15	22	ND			0000 2359	
437.50	44	S	TINGSTAEDE RADIO	S	018E36 57N44	300	CO	A1A	10	17	ND			0000 2359	
437.50	44	SYR	LATTAKIA RADIO	SYR	035E47 35N30	500	CP	A1A	19	26	ND			0000 2359	
437.50	44	URS	IZMAIL	UKR	028E51 45N20	200	CO	F1B	0	7	ND			0000 2359	
437.50	44	URS	IZMAIL	UKR	028E51 45N20	200	CO	A1A	5	12	ND			0000 2359	
437.50	44	URS	IZMAIL	UKR	028E51 45N20	350	CP	F1B	7	14	ND			0000 2359	
437.50	44	URS	IZMAIL	UKR	028E51 45N20	350	CP	A1A	12	19	ND			0000 2359	
437.50	44	URS	KILIIA	UKR	029E15 45N26	200	CP	F1B	0	7	ND			0000 2359	
437.50	44	URS	KILIIA	UKR	029E15 45N26	200	CP	A1A	5	12	ND			0000 2359	
437.50	44	URS	RENI	UKR	028E18 45N29	200	CO	A1A	5	12	ND			0000 2359	
437.50	44	URS	EISK	URS	038E15 46N41	200	CO	F1B	0	7	ND			0000 2359	
437.50	44	URS	EISK	URS	038E15 46N41	200	CO	A1A	5	12	ND			0000 2359	
438.00	45	AFS	CAPE TOWN	AFS	018E43 33S41	500	CP	F1B	34	41	ND			0000 2359	
438.00	45	AFS	DURBAN	AFS	030E48 29S48	500	CP	F1B	34	41	ND			0000 2359	
438.00	45	AGL	SOYO	AGL	012E12 06S07	500	CP	A1A	39	46	ND			0000 2359	
438.00	45	ALB	DURRES PT RADIO	ALB	019E26 41N27	400	CP	A1A	15	22	ND			0000 2359	
438.00	45	CME	LIMBE	CME	009E22 04N02	400	CP	A1A	35	42	ND			0700 1900	
438.00	45	DNK	LYNGBY	DNK	011E25 55N50	350	CP	A1A	12	19	ND			0000 2359	
438.00	45	E	LAS PALMAS	CNR	015W26 28N09	500	CO	A1A	39	46	ND			0000 2359	
438.00	45	E	CABO DE LA NAO RADIO	E	000E11 38N43	500	CP	A1A	19	26	ND			0000 2359	
438.00	45	I	GRADO	I	013E23 45N41	80	CV	A1A	-4	3	ND			0800 1700	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
438.00	45	IRL	MALIN HEAD	IRL	007W21 55N22	500	CP	F1B	14	21	ND			0000 2359	
438.00	45	ISL	REYKJAVIK RADIO	ISL	021W51 64N05	500	CP	F1B	14	21	ND			0000 2359	
438.00	45	LBY	TRIPOLI	LBY	013E11 32N54	500	CP	A1A	19	26	ND			0000 2359	
438.00	45	MAU	MAURITIUS RADIO	MAU	057E30 20S20	500	CP	F1B	34	41	ND			0000 2359	
438.00	45	MDG	ANTSERANANA	MDG	049E17 12S17	500	CP	F1B	34	41	ND			0000 2359	
438.00	45	POR	HORTA	AZR	028W38 38N32	500	CO	F1B	14	21	ND			0000 2359	
438.00	45	QAT	DOHA	QAT	051E35 25N45	500	CP	F1B	34	41	ND			0000 2359	
438.00	45	URS	ODESSA	UKR	030E45 46N29	100	CP	F1B	-7	0	ND			0000 2359	
438.00	45	URS	ODESSA	UKR	030E45 46N29	100	CP	F1B	-7	0	ND			0000 2359	
438.00	45	URS	MAKHATCHKALA	URS	047E30 42N59	350	CO	F1B	7	14	ND			0000 2359	
438.00	45	URS	MAKHATCHKALA	URS	047E30 42N59	350	CO	F1B	7	14	ND			0000 2359	
438.00	45	URS	PETROZAVODSK	URS	034E19 61N48	350	CO	F1B	7	14	ND			0000 2359	
438.00	45	URS	PETROZAVODSK	URS	034E19 61N48	350	CO	A1A	12	19	ND			0000 2359	
438.00	45	URS	TAGANROG	URS	038E53 47N13	200	CO	F1B	0	7	ND			0000 2359	
438.00	45	URS	TAGANROG	URS	038E53 47N13	200	CO	A1A	5	12	ND			0000 2359	
438.00	45	YMS	HISWA	YMS	044E54 12N49	500	CP	F1B	34	41	ND			0000 2359	
438.50	46	ALG	ANNABA RADIO	ALG	007E45 36N54	200	CP	F1B	0	7	ND			0000 2359	
438.50	46	ALG	ORAN RADIO	ALG	000W08 35N46	100	CP	F1B	-7	0	ND			0000 2359	
438.50	46	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
438.50	46	COG	POINTE NOIRE RADIO	COG	011E51 04S44	100	CP	F1B	13	20	ND			0000 2359	
438.50	46	CPV	MINDELO	CPV	024W59 16N53	100	CP	F1B	13	20	ND			0000 2359	
438.50	46	E	TENERIFE RADIO	CNR	016W20 28N25	500	CP	F1B	34	41	ND			0000 2359	
438.50	46	E	CDEPENAS	E	005W51 43N39	500	CP	A1A	19	26	ND			0000 2359	
438.50	46	EGY	TOR RADIO	EGY	033E35 28N15	300	CP	F1B	25	32	ND			0400 2200	
438.50	46	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	A1A	13	20	ND			0000 2359	
438.50	46	I	LA SPEZIA	I	009E43 44N06	380	CO	F1B	9	16	ND			0000 2359	
438.50	46	IRQ	BASRAH	IRQ	047E47 30N33	500	CR	F1B	14	21	ND			0000 2359	
438.50	46	LBR	HARPER C PALMA	LBR	007W44 04N22	400	CP	A1A	35	42	ND			0800 2300	
438.50	46	MDG	MANANJARY	MDG	048E20 21S13	250	CP	A1A	27	34	ND			0000 2359	
438.50	46	MOZ	MAPUTO RADIONAVAL	MOZ	032E34 25S50	500	CO	F1B	34	41	ND			0000 2359	
438.50	46	STP	S TOME RADIO	STP	006E44 00N21	400	CP	F1B	30	37	ND			0000 2359	
438.50	46	URS	IALTA	UKR	034E10 44N39	200	CO	F1B	0	7	ND			0000 2359	
438.50	46	URS	IALTA	UKR	034E10 44N39	200	CO	A1A	5	12	ND			0000 2359	
438.50	46	URS	IALTA	UKR	034E10 44N39	350	CP	F1B	7	14	ND			0000 2359	
438.50	46	URS	IALTA	UKR	034E10 44N39	350	CP	A1A	12	19	ND			0000 2359	
438.50	46	URS	LIEPAIA	URS	021E02 56N43	350	CO	F1B	7	14	ND			0000 2359	
438.50	46	URS	LIEPAIA	URS	021E02 56N43	350	CO	F1B	7	14	ND			0000 2359	
438.50	46	URS	PETROZAVODSK	URS	034E19 61N48	200	OT	F1B	0	7	ND			0000 2359	
438.50	46	URS	PETROZAVODSK	URS	034E19 61N48	200	OT	F1B	0	7	ND			0000 2359	
439.00	47	AGL	LUANDA	AGL	013E14 08S47	100	CP	F1B	13	20	ND			0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting coast station name
5	Symbol of the country or geographical area in which the station is located
6	Longitud and latitude of the transmitting station
7	Service range (km)
8	Nature of service
9	Class of emission
10A	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)
10B	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)
11A	Antenna characteristics: Azimuth of maximum radiation (degrees)
11B	Antenna characteristics: Maximum antenna gain (dB)
11C	Antenna characteristics: Angular width of the main lobe (degrees)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
439.00	47	BEL	OOSTENDE RADIO	BEL	002E48 51N11	500	CP	F1B	14	21	ND			0000 2359	
439.00	47	BEN	COTONOU	BEN	002E28 06N22	500	CP	A1A	39	46	ND			0000 2359	
439.00	47	BUL	VARNA RADIO	BUL	027E46 43N04	100	CO	F1B	-7	0	ND			0000 2359	
439.00	47	CPV	MINDELO	CPV	024W59 16N53	500	CP	F1B	34	41	ND			0000 2359	
439.00	47	G	GIBRALTAR	GIB	005W21 36N07	320	CP	A1A	11	18	ND			0000 2359	
439.00	47	G	ST HELENA	SHN	005W43 15S56	320	CP	A1A	31	38	ND			0000 2359	
439.00	47	GUI	KONAKRI	GUI	013W37 09N30	300	CP	F1B	25	32	ND			0000 2359	
439.00	47	I	VENEZIA	I	012E20 45N26	80	CV	A1A	-4	3	ND			0800 1700	
439.00	47	MAU	MAURITIUS RADIO	MAU	057E30 20S20	500	CP	F1B	34	41	ND			0000 2359	
439.00	47	MDG	NOSSI BE	MDG	048E16 13S24	350	CP	A1A	32	39	ND			0000 2359	
439.00	47	MDG	TOLAGNARO	MDG	046E59 25S01	500	CP	F1B	34	41	ND			0000 2359	
439.00	47	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	200	CP	F1B	20	27	ND			0000 2359	
439.00	47	MRC	LAAYOUNE	MRC	013W13 27N10	350	CP	F1B	27	34	ND			0000 2359	
439.00	47	QAT	DOHA	QAT	051E35 25N45	500	CP	F1B	34	41	ND			0000 2359	
439.00	47	S	KARLSKRONA RADIO	S	015E33 56N11	200	CO	A1A	5	12	ND			0000 2359	
439.00	47	S	RUDA RADIO	S	016E18 57N12	200	CO	A1A	5	12	ND			0000 2359	
439.00	47	SEY	MAHE	SEY	055E27 04S37	500	CP	A1A	39	46	ND			0000 2359	
439.00	47	TUN	TABARKA RADIO	TUN	008E45 36N57	400	CP	A1A	15	22	ND			0600 1900	
439.00	47	URS	GENITCHESK	UKR	034E48 46N12	200	CP	F1B	0	7	ND			0000 2359	
439.00	47	URS	GENITCHESK	UKR	034E48 46N12	200	CP	F1B	0	7	ND			0000 2359	
439.00	47	URS	KESTENGA	URS	032E00 65N55	200	CO	F1B	0	7	ND			0000 2359	
439.00	47	URS	KESTENGA	URS	032E00 65N55	200	CO	A1A	5	12	ND			0000 2359	
439.00	47	URS	LODEINOE	URS	033E34 60N43	200	CO	F1B	0	7	ND			0000 2359	
439.00	47	URS	LODEINOE	URS	033E34 60N43	200	CO	A1A	5	12	ND			0000 2359	
439.00	47	URS	TCHUPA	URS	033E00 66N16	200	CO	F1B	0	7	ND			0000 2359	
439.00	47	URS	TCHUPA	URS	033E00 66N16	200	CO	A1A	5	12	ND			0000 2359	
439.00	47	YUG	DUBROVNIK	YUG	018E07 42N38	300	CP	A1A	10	17	ND			0000 2359	
439.50	48	AGL	LOBITO	AGL	013E33 12S22	500	CP	A1A	39	46	ND			0000 2359	
439.50	48	BEL	OOSTENDE RADIO	BEL	002E48 51N11	500	CP	F1B	14	21	ND			0000 2359	
439.50	48	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
439.50	48	BHR	HAMALA	BHR	050E28 26N09	500	CP	A1A	39	46	ND			0000 2359	
439.50	48	BUL	VARNA RADIO	BUL	027E46 43N04	500	CO	A1A	19	26	ND			0000 2359	
439.50	48	CPV	MINDELO	CPV	024W59 16N53	200	CP	F1B	20	27	ND			0000 2359	
439.50	48	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	A1A	30	37	ND			0000 2359	
439.50	48	DDR	RUEGEN	DDR	013E37 54N35	100	CP	F1B	-7	0	ND			0000 2359	
439.50	48	E	CEUTA	E	005W21 35N54	500	CP	A1A	19	26	ND			0000 2359	
439.50	48	GAB	LIBREVILLE	GAB	009E26 00N25	500	CP	A1A	39	46	ND			0600 1800	
439.50	48	MAU	MAURITIUS RADIO	MAU	057E30 20S20	500	CP	A1A	39	46	ND			0000 2359	
439.50	48	MDG	TOLAGNARO	MDG	046E59 25S01	500	CP	A1A	39	46	ND			0000 2359	
439.50	48	MLT	XLOKK RADIO	MLT	014E32 35N49	500	CP	A1A	19	26	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
439.50	48	MOZ	NACALA RADIO	MOZ	040E39 14S34	500	CP	F1B	34	41	ND			0000 2359	
439.50	48	MTN	NOUAKCHOTT RADIO	MTN	015W58 18N06	500	CP	F1B	34	41	ND			0000 2359	
439.50	48	S	HAERNOESAND RADIO	S	018E08 62N43	500	CP	F1B	14	21	ND			0000 2359	
439.50	48	SRL	FTN	SRL	013W15 08N29	300	CP	A1A	30	37	ND			0000 2359	
439.50	48	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	A1A	7	14	ND			0000 2359	
439.50	48	URS	KALININGRAD	URS	020E30 54N45	100	CP	F1B	-7	0	ND			0000 2359	
439.50	48	URS	KALININGRAD	URS	020E30 54N45	100	CP	F1B	-7	0	ND			0000 2359	
439.50	48	URS	TUAPSE	URS	039E05 44N01	200	CP	A1A	5	12	ND			0000 2359	
439.50	48	YUG	RIJEKA	YUG	014E33 45N07	300	CP	A1A	10	17	ND			0000 2359	
440.00	49	ARS	RAS TANURA RADIO	ARS	050E07 26N18	500	CV	A1A	39	46	ND			0000 2359	
440.00	49	CPV	PRAIA	CPV	023W30 14N55	500	CP	A1A	39	46	ND			1000 2000	
440.00	49	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	A1A	25	32	ND			0000 2359	
440.00	49	DNK	ARHUS	DNK	010E13 56N10	400	CO	A1A	15	22	ND			0000 2359	
440.00	49	EGY	PORT SAID RADIO	EGY	032E18 31N19	500	CP	A1A	19	26	ND			0400 2200	
440.00	49	F	BREST	F	004W19 48N26	500	CO	F1B	14	21	ND			0000 2359	
440.00	49	GRC	PIRAEUS	GRC	023E40 37N58	370	CO	A1A	13	20	ND			0000 2359	
440.00	49	I	ANCONA	I	013E31 43N37	100	CO	F1B	-7	0	ND			0000 2359	
440.00	49	MDG	TOAMASINA	MDG	049E24 18S08	500	CP	A1A	39	46	ND			0000 2359	
440.00	49	MRC	DAKHLA	MRC	015W56 23N42	400	CP	F1B	30	37	ND			0000 2359	
440.00	49	MRC	TANGER-RADIO	MRC	005W51 35N44	400	CP	A1A	15	22	ND			0000 2359	
440.00	49	SRL	FTN	SRL	013W15 08N29	300	CP	F1B	25	32	ND			0000 2359	
440.00	49	TGO	LOME RADIO	TGO	001E30 06N36	110	CP	F1B	14	21	ND			0000 2359	
440.00	49	TUN	TABARKA RADIO 2 MDN	TUN	008E45 36N57	400	CO	A1A	15	22	ND			0600 1900	
440.00	49	URS	BERDIANSK	UKR	036E48 46N47	200	CP	A1A	5	12	ND			0000 2359	
440.00	49	URS	GENITCHESK	UKR	034E48 46N12	200	CP	A1A	5	12	ND			0000 2359	
440.00	49	URS	ASTRAKHAN	URS	047E42 46N55	350	CP	F1B	7	14	ND			0000 2359	
440.00	49	URS	ASTRAKHAN	URS	047E42 46N55	350	CP	F1B	7	14	ND			0000 2359	
440.00	49	URS	ASTRAKHAN	URS	047E42 46N55	200	CO	A1A	5	12	ND			0000 2359	
440.00	49	URS	ASTRAKHAN	URS	047E42 46N55	200	CO	F1B	0	7	ND			0000 2359	
440.00	49	URS	BATUMI	URS	041E19 41N39	200	CO	F1B	0	7	ND			0000 2359	
440.00	49	URS	BATUMI	URS	041E19 41N39	200	CO	F1B	0	7	ND			0000 2359	
440.00	49	URS	KRASNOVODSK	URS	052E57 40N00	200	CO	F1B	0	7	ND			0000 2359	
440.00	49	URS	KRASNOVODSK	URS	052E57 40N00	200	CO	F1B	0	7	ND			0000 2359	
440.00	49	URS	TALLIN	URS	024E46 59N24	200	CP	F1B	0	7	ND			0000 2359	
440.00	49	URS	TALLIN	URS	024E46 59N24	200	CP	F1B	0	7	ND			0000 2359	
440.00	49	ZAI	BANANA RADIO	ZAI	012E18 05S53	500	CP	A1A	39	46	ND			0600 2100	
440.50	50	ALG	ALGER RADIO	ALG	003E18 36N40	100	CP	F1B	-7	0	ND			0000 2359	
440.50	50	ALG	ORAN RADIO	ALG	000W08 35N46	100	CP	F1B	-7	0	ND			0000 2359	
440.50	50	BHR	BAHRAIN	BHR	050E28 26N09	500	CP	F1B	34	41	ND			0000 2359	
440.50	50	BUL	BOURGAS RADIO	BUL	027E29 42N30	100	CO	F1B	-7	0	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
440.50	50	CME	DOUALA	CME	009E42 04N02	100	CP	F1B	13	20	ND			0000 2359	
440.50	50	COG	POINTE NOIRE RADIO	COG	011E51 04S44	100	CP	F1B	13	20	ND			0000 2359	
440.50	50	COM	DZAOUDZI RADIO	COM	045E18 12S47	500	CP	A1A	39	46	ND			0400 1700	
440.50	50	CPV	MINDELO	CPV	024W59 16N53	100	CP	F1B	13	20	ND			0000 2359	
440.50	50	CTI	S. PEDRO PORT	CTI	006W37 04N44	200	CR	A1A	25	32	ND			0000 2359	
440.50	50	E	LACORUNA	E	008W24 43N20	500	CP	A1A	19	26	ND			0000 2359	
440.50	50	F	S DENIS	REU	055E36 20S54	500	CP	F1B	34	41	ND			0000 2359	
440.50	50	G	ILFRACOMBE RADIO	G	004W07 51N11	160	CP	A1A	2	9	ND			0000 2359	
440.50	50	GMB	BANJUL	GMB	016W50 13N16	500	CP	A1A	39	46	ND			0700 1900	
440.50	50	GRC	ATHINAI	GRC	023E53 38N00	200	CP	F1B	0	7	ND			0000 2359	
440.50	50	I	ROMA	I	012E31 41N48	500	CP	A1A	19	26	ND			0000 2359	
440.50	50	KEN	MOMBASA RADIO	KEN	039E44 03S58	200	CP	F1B	20	27	ND			0000 2359	
440.50	50	NOR	BERGEN	NOR	005E22 60N25	370	CP	A1A	13	20	ND			0000 2359	
440.50	50	TGO	LOME RADIO	TGO	001E36 06N15	500	CP	A1A	39	46	ND			0000 2359	
440.50	50	URS	NIKOLAEV	UKR	032E00 46N57	200	CO	F1B	0	7	ND			0000 2359	
440.50	50	URS	NIKOLAEV	UKR	032E00 46N57	200	CO	F1B	0	7	ND			0000 2359	
440.50	50	URS	KALININGRAD	URS	020E30 54N45	350	CP	F1B	7	14	ND			0000 2359	
440.50	50	URS	KALININGRAD	URS	020E30 54N45	350	CP	F1B	7	14	ND			0000 2359	
440.50	50	URS	NOVOROSSIISK	URS	037E42 44N42	100	CO	F1B	-7	0	ND			0000 2359	
440.50	50	URS	NOVOROSSIISK	URS	037E42 44N42	100	CO	F1B	-7	0	ND			0000 2359	
441.00	51	AGL	LUANDA	AGL	013E14 08S47	500	CP	F1B	34	41	ND			0000 2359	
441.00	51	ALG	BEJAIA RADIO	ALG	005E05 36N45	100	CP	F1B	-7	0	ND			0000 2359	
441.00	51	CPV	MINDELO	CPV	024W59 16N53	500	CP	F1B	34	41	ND			0000 2359	
441.00	51	DDR	RUEGEN	DDR	013E37 54N35	100	CP	F1B	-7	0	ND			0000 2359	
441.00	51	E	CADIZ	E	006W12 36N15	500	CO	A1A	19	26	ND			0000 2359	
441.00	51	G	NITON RADIO	G	001W18 50N35	160	CP	A1A	2	9	ND			0000 2359	
441.00	51	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	F1B	2	9	ND			0000 2359	
441.00	51	I	ANCONA	I	013E28 43N36	100	CP	F1B	-7	0	ND			0000 2359	
441.00	51	IRQ	BASRAH	IRQ	047E47 30N33	100	CV	F1B	-7	0	ND			0000 2359	
441.00	51	LBR	MONROVIA	LBR	010W48 06N18	400	CP	A1A	35	42	ND			0800 2300	
441.00	51	MAU	MAURITIUS RADIO	MAU	057E30 20S20	200	CP	F1B	20	27	ND			0000 2359	
441.00	51	MDG	MANAKARA	MDG	048E00 22S08	250	CP	A1A	27	34	ND			0000 2359	
441.00	51	MLT	MALTA RADIO	MLT	014E24 35N52	500	CP	F1B	14	21	ND			0000 2359	
441.00	51	ROU	SULINA	ROU	029E39 45N09	500	CP	A1A	19	26	ND			0000 2359	
441.00	51	STP	S TOME RADIO	STP	006E44 00N21	400	CP	A1A	35	42	ND			0000 2359	
441.00	51	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	F1B	2	9	ND			0000 2359	
441.00	51	URS	BELOMORSK	URS	034E41 64N36	200	CO	F1B	0	7	ND			0000 2359	
441.00	51	URS	KINGISEPP	URS	022E33 58N15	200	CO	F1B	0	7	ND			0000 2359	
441.00	51	URS	KINGISEPP	URS	022E33 58N15	200	CO	A1A	5	12	ND			0000 2359	
441.00	51	URS	KINGISEPP	URS	022E33 58N15	200	CO	F1B	0	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
441.00	51	URS	KINGISEPP	URS	022E33 58N15	200	CO	A1A	5	12	ND			0000 2359	
441.00	51	URS	NARVA-IESSU	URS	028E12 59N22	200	CO	F1B	0	7	ND			0000 2359	
441.00	51	URS	NARVA-IESSU	URS	028E12 59N22	200	CO	A1A	5	12	ND			0000 2359	
441.00	51	URS	PIARNU	URS	024E33 58N23	200	CO	F1B	0	7	ND			0000 2359	
441.00	51	URS	PIARNU	URS	024E33 58N23	200	CO	A1A	5	12	ND			0000 2359	
441.50	52	ALG	ALGER RADIO	ALG	003E18 36N40	500	CP	A1A	19	26	ND			0000 2359	
441.50	52	COG	POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	F1B	34	41	ND			0000 2359	
441.50	52	E	FERROL	E	008W16 43N28	500	CO	A1A	19	26	ND			0000 2359	
441.50	52	F	DZAOUDZI	MYT	045E17 12S48	400	CP	F1B	30	37	ND			0000 2359	
441.50	52	I	AUGUSTA	I	015E13 37N13	100	CP	F1B	-7	0	ND			0000 2359	
441.50	52	IRQ	BASRAH	IRQ	047E47 30N33	100	CR	F1B	-7	0	ND			0000 2359	
441.50	52	ISR	HAIFA RADIO	ISR	035E00 32N48	500	CP	F1B	14	21	ND			0000 2359	
441.50	52	KEN	MOMBASA RADIO	KEN	039E44 03S58	500	CP	F1B	34	41	ND			0000 2359	
441.50	52	LBR	GR BASSA	LBR	010W21 06N07	400	CP	A1A	35	42	ND			0800 2300	
441.50	52	NIG	LAGOS	NIG	003E27 06N27	500	CP	A1A	39	46	ND			0600 2359	
441.50	52	POL	KOLOBRZEG	POL	015E34 54N11	500	CR	A1A	19	26	ND			0000 2359	
441.50	52	ROU	TULCEA	ROU	028E50 45N12	500	CP	A1A	19	26	ND			0000 2359	
441.50	52	YUG	SPLIT	YUG	016E29 43N30	300	CP	A1A	10	17	ND			0000 2359	
442.00	53	BEN	COTONOU	BEN	002E28 06N22	200	CP	F1B	20	27	ND			0000 2359	
442.00	53	BUL	VARNA RADIO	BUL	027E46 43N04	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	CME	LIMBE	CME	009E22 04N02	400	OT	F1B	30	37	ND			0000 2359	
442.00	53	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	F1B	20	27	ND			0000 2359	
442.00	53	G	PORTPATRICK RADIO	G	005W07 54N51	240	CP	A1A	7	14	ND			0000 2359	
442.00	53	GRC	ATHINAI	GRC	023E53 38N00	100	CP	F1B	-7	0	ND			0000 2359	
442.00	53	GUI	CONAKRY	GUI	013W43 09N31	300	CP	A1A	30	37	ND			0000 2359	
442.00	53	I	MAZARA VALLO	I	012E34 37N38	500	CP	A1A	19	26	ND			0000 2359	
442.00	53	IRQ	BASRAH	IRQ	047E47 30N33	500	CR	A1A	19	26	ND			0000 2359	
442.00	53	LBN	BEYROUTH KHALD	LBN	035E29 33N48	500	CP	A1A	19	26	ND			0400 2200	
442.00	53	MDG	MORONDAVA	MDG	044E18 20S17	500	CP	A1A	39	46	ND			0000 2359	
442.00	53	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	500	CP	F1B	34	41	ND			0000 2359	
442.00	53	MRC	NADOR	MRC	002W56 35N10	300	CP	F1B	5	12	ND			0000 2359	
442.00	53	NOR	BODOE	NOR	014E23 67N16	370	CO	F1B	8	15	ND			0000 2359	
442.00	53	NOR	FARSUND	NOR	006E45 58N04	370	CP	A1A	13	20	ND			0000 2359	
442.00	53	POR	APULIA	POR	008W45 41N29	350	CO	F1B	7	14	ND			0000 2359	
442.00	53	URS	KERTCH	UKR	036E28 45N22	200	CO	A1A	5	12	ND			0000 2359	
442.00	53	URS	KERTCH	UKR	036E28 45N22	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	URS	KERTCH	UKR	036E28 45N22	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	URS	KERTCH	UKR	036E28 45N22	200	CO	A1A	5	12	ND			0000 2359	
442.00	53	URS	ATCHUEVO	URS	037E27 45N43	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	URS	ATCHUEVO	URS	037E27 45N43	200	CO	A1A	5	12	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)	Antenna characteristics: Azimuth of maximum radiation (degrees)	Antenna characteristics: Maximum antenna gain (dB)	Antenna characteristics: Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
442.00	53	URS	AZOV	URS	039E25 45N53	200	CO	A1A	5	12	ND			0000 2359	
442.00	53	URS	AZOV	URS	039E25 45N53	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	URS	GURIEV	URS	051E55 47N03	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	URS	GURIEV	URS	051E55 47N03	200	CO	F1B	0	7	ND			0000 2359	
442.00	53	URS	KRASNOVODSK	URS	052E57 40N00	200	CP	F1B	0	7	ND			0000 2359	
442.00	53	URS	KRASNOVODSK	URS	052E57 40N00	200	CP	F1B	0	7	ND			0000 2359	
442.00	53	URS	MAKHATCHKALA	URS	047E30 42N59	200	OT	F1B	0	7	ND			0000 2359	
442.00	53	URS	MAKHATCHKALA	URS	047E30 42N59	200	OT	F1B	0	7	ND			0000 2359	
442.00	53	URS	RIGA	URS	024E05 56N57	350	CP	F1B	7	14	ND			0000 2359	
442.00	53	URS	RIGA	URS	024E05 56N57	350	CP	F1B	7	14	ND			0000 2359	
442.50	54	AGL	LUANDA	AGL	013E14 08S47	100	CP	F1B	13	20	ND			0000 2359	
442.50	54	ALG	BEJAIA RADIO	ALG	005E05 36N45	500	CP	F1B	14	21	ND			0000 2359	
442.50	54	CME	KRIBI	CME	009E43 02N53	200	CP	F1B	20	27	ND			0600 1900	
442.50	54	E	TENERIFE RADIO	CNR	016W20 28N25	500	CP	A1A	39	46	ND			0000 2359	
442.50	54	E	FINISTERRE RADIO	E	009W16 42N54	500	CP	F1B	14	21	ND			0000 2359	
442.50	54	EGY	ALEXANDRIA RADIO	EGY	029E51 31N11	200	CP	F1B	0	7	ND			0000 2359	
442.50	54	F	BOULOGNE	F	001E38 50N43	500	CP	F1B	14	21	ND			0000 2359	
442.50	54	I	BARI	I	017E25 40N26	100	CP	F1B	-7	0	ND			0000 2359	
442.50	54	IRQ	BASRAH	IRQ	047E47 30N33	100	CR	F1B	-7	0	ND			0000 2359	
442.50	54	LBR	HARPER C PALMA	LBR	007W44 04N22	400	CP	F1B	30	37	ND			0800 2300	
442.50	54	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	500	CP	F1B	34	41	ND			0000 2359	
442.50	54	MOZ	NACALA RADIO	MOZ	040E39 14S34	500	CP	A1A	39	46	ND			0000 2359	
442.50	54	OMA	MUSCAT	OMA	058E30 23N37	400	CP	F1B	30	37	ND			0000 2359	
442.50	54	S	STOCKHOLM RADIO	S	018E43 59N17	500	CP	F1B	14	21	ND			0000 2359	
442.50	54	TUR	ANTALYA	TUR	030E42 36N53	250	CP	F1B	2	9	ND			0000 2359	
442.50	54	URS	OTCHAKOV	UKR	031E30 46N37	100	CO	F1B	-7	0	ND			0000 2359	
442.50	54	URS	OTCHAKOV	UKR	031E30 46N37	100	CO	F1B	-7	0	ND			0000 2359	
442.50	54	URS	MURMANSK	URS	033E10 68N58	500	CP	F1B	14	21	ND			0000 2359	
442.50	54	URS	MURMANSK	URS	033E10 68N58	500	CP	F1B	14	21	ND			0000 2359	
442.50	54	URS	SOTCHI	URS	039E45 43N36	200	CO	F1B	0	7	ND			0000 2359	
442.50	54	URS	SOTCHI	URS	039E45 43N36	200	CO	A1A	5	12	ND			0000 2359	
442.50	54	YUG	KOPER	YUG	013E44 45N33	250	CP	A1A	7	14	ND			0000 2359	
443.00	55	ALG	ALGER RADIO	ALG	003E18 36N40	100	CP	F1B	-7	0	ND			0000 2359	
443.00	55	ALG	ORAN RADIO	ALG	000W08 35N46	100	CP	F1B	-7	0	ND			0000 2359	
443.00	55	COG	POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	A1A	39	46	ND			0000 2359	
443.00	55	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	F1B	25	32	ND			0000 2359	
443.00	55	CYP	CYPRUS RADIO	CYP	033E17 35N03	500	CP	A1A	19	26	ND			0000 2359	
443.00	55	E	LAS PALMAS	CNR	015W26 28N09	500	CO	F1B	34	41	ND			0000 2359	
443.00	55	G	HUMBER RADIO	G	000E17 53N20	160	CP	A1A	2	9	ND			0000 2359	
443.00	55	I	GENOVA	I	008E56 44N25	100	CP	F1B	-7	0	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
443.00	55	IRQ	BASRAH	IRQ	047E47 30N33	500	CR	F1B	14	21	ND			0000 2359	
443.00	55	MLT	MALTA RADIO	MLT	014E24 35N52	500	CP	A1A	19	26	ND			0000 2359	
443.00	55	MOZ	BEIRA RADIONAVAL	MOZ	034E52 19S50	500	CO	A1A	39	46	ND			0000 2359	
443.00	55	NIG	PT HARCOURT	NIG	007E01 04N51	480	OT	A1A	38	45	ND			0500 1700	
443.00	55	NOR	BODOE	NOR	014E23 67N16	370	CO	A1A	13	20	ND			0000 2359	
443.00	55	POR	LISBOA	POR	009W14 38N44	200	CP	F1B	0	7	ND			0000 2359	
443.00	55	URS	SEVASTOPOL	UKR	033E32 44N34	350	CO	F1B	7	14	ND			0000 2359	
443.00	55	URS	SEVASTOPOL	UKR	033E32 44N34	350	CO	A1A	12	19	ND			0000 2359	
443.00	55	URS	BAKU	URS	049E45 40N20	350	CP	F1B	7	14	ND			0000 2359	
443.00	55	URS	BAKU	URS	049E45 40N20	350	CP	F1B	7	14	ND			0000 2359	
443.00	55	URS	GURIEV	URS	051E55 47N03	200	CO	F1B	0	7	ND			0000 2359	
443.00	55	URS	KALININGRAD	URS	020E30 54N45	350	OT	A1A	12	19	ND			0000 2359	
443.00	55	URS	MURMANSK	URS	033E10 68N58	100	OT	F1B	-7	0	ND			0000 2359	
443.00	55	URS	MURMANSK	URS	033E10 68N58	100	OT	F1B	-7	0	ND			0000 2359	
443.50	56	ALG	ALGER RADIO	ALG	003E18 36N40	100	CP	F1B	-7	0	ND			0000 2359	
443.50	56	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
443.50	56	CME	DOUALA	CME	009E43 04N01	200	CP	F1B	20	27	ND			0000 2359	
443.50	56	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	F1B	25	32	ND			0000 2359	
443.50	56	DNK	FREDERIKSHAVN	DNK	010E35 57N25	400	CO	A1A	15	22	ND			0000 2359	
443.50	56	E	CADIZ	E	006W12 36N15	500	CO	F1B	14	21	ND			0000 2359	
443.50	56	F	LE CONQUET	F	004W44 48N20	500	CP	F1B	14	21	ND			0000 2359	
443.50	56	GRC	LIMNOS	GRC	025E11 39N54	370	CP	F1B	8	15	ND			0000 2359	
443.50	56	I	CAGLIARI	I	009E07 39N15	200	CP	F1B	0	7	ND			0000 2359	
443.50	56	I	GENOVA	I	008E56 44N25	200	CP	F1B	0	7	ND			0000 2359	
443.50	56	I	TORRE DEL GRECO	I	014E22 40N46	80	CV	A1A	-4	3	ND			0800 1700	
443.50	56	IRQ	BASRAH	IRQ	047E47 30N33	100	CV	F1B	-7	0	ND			0000 2359	
443.50	56	MDG	MAHAJANGA	MDG	046E18 15S42	500	CP	A1A	39	46	ND			0000 2359	
443.50	56	MOZ	BEIRA RADIO	MOZ	034E54 19S51	500	CP	A1A	39	46	ND			0000 2359	
443.50	56	NOR	HAMMERFEST	NOR	023E41 70N41	370	CP	A1A	13	20	ND			0000 2359	
443.50	56	URS	KHERSON	UKR	032E34 46N39	200	OT	F1B	0	7	ND			0000 2359	
443.50	56	URS	KHERSON	UKR	032E34 46N39	200	OT	F1B	0	7	ND			0000 2359	
443.50	56	URS	PERTOMINSK	URS	038E27 64N48	200	CO	F1B	0	7	ND			0000 2359	
443.50	56	URS	PERTOMINSK	URS	038E27 64N48	200	CO	F1B	0	7	ND			0000 2359	
444.00	57	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	100	CP	F1B	-7	0	ND			0000 2359	
444.00	57	ARS	DAMMAMRADIO	ARS	050E06 26N26	500	CP	A1A	39	46	ND			0000 2359	
444.00	57	BEN	COTONOU	BEN	002E28 06N22	500	CP	F1B	34	41	ND			0000 2359	
444.00	57	CME	CAMPO	CME	009E51 02N22	200	CP	F1B	20	27	ND			0000 2359	
444.00	57	CTI	S. PEDRO PORT	CTI	006W37 04N44	200	CR	F1B	20	27	ND			0000 2359	
444.00	57	EGY	PORT SAID RADIO	EGY	032E18 31N19	400	CP	F1B	10	17	ND			0000 2359	
444.00	57	F	BOULOGNE	F	001E38 50N43	500	CP	F1B	14	21	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)	Antenna characteristics: Azimuth of maximum radiation (degrees)	Antenna characteristics: Maximum antenna gain (dB)	Antenna characteristics: Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
444.00	57	I	CAGLIARI	I	009E07 39N15	500	CP	A1A	19	26	ND			0000 2359	
444.00	57	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	500	CP	A1A	39	46	ND			0000 2359	
444.00	57	POL	SZCZECIN	POL	014E35 53N28	200	CP	F1B	0	7	ND			0000 2359	
444.00	57	POR	SAGRES	POR	008W57 37N00	350	CO	F1B	7	14	ND			0000 2359	
444.00	57	ROU	MANGALIA	ROU	028E35 43N48	500	CP	F1B	14	21	ND			0000 2359	
444.00	57	S	HAERNOESAND RADIO	S	018E08 62N43	500	CP	A1A	19	26	ND			0000 2359	
444.50	58	ALG	TENES RADIO	ALG	001E18 36N32	200	CP	F1B	0	7	ND			0000 2359	
444.50	58	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
444.50	58	CME	GRAND BATANGA	CME	009E52 02N43	400	CR	A1A	35	42	ND			0000 2359	
444.50	58	COG	POINTE NOIRE RADIO	COG	011E51 04S44	100	CP	F1B	13	20	ND			0000 2359	
444.50	58	E	VIGO	E	008W49 42N10	500	CP	A1A	19	26	ND			0000 2359	
444.50	58	EGY	KOSSEIR RADIO	EGY	034E17 26N06	500	CP	F1B	34	41	ND			0400 2200	
444.50	58	HOL	SCHEVENINGEN	HOL	004E15 52N06	500	CP	F1B	14	21	ND			0000 2359	
444.50	58	I	BARI	I	017E25 40N26	100	CP	F1B	-7	0	ND			0000 2359	
444.50	58	I	CAGLIARI	I	009E07 39N15	350	CP	F1B	7	14	ND			0000 2359	
444.50	58	IRQ	BASRAH	IRQ	047E47 30N33	100	CR	F1B	-7	0	ND			0000 2359	
444.50	58	LBY	BENGHAZI RADIO	LBY	020E04 32N07	450	CP	A1A	17	24	ND			0000 2359	
444.50	58	MDG	MAHAJANGA	MDG	046E18 15S42	500	CP	F1B	34	41	ND			0000 2359	
444.50	58	MOZ	BEIRA RADIO	MOZ	034E54 19S51	500	CP	F1B	34	41	ND			0000 2359	
444.50	58	NOR	ROERVIK	NOR	011E12 64N50	180	CP	F1B	-1	6	ND			0000 2359	
444.50	58	OMA	SALALAH	OMA	054E06 17N01	400	CR	F1B	30	37	ND			0000 2359	
444.50	58	POR	HORTA	AZR	028W38 38N32	500	CO	A1A	19	26	ND			0000 2359	
444.50	58	POR	PORTO SANTO	MDR	016W20 33N05	500	CO	A1A	19	26	ND			0000 2359	
444.50	58	ROU	AGIGEA	ROU	028E39 44N06	500	CP	A1A	19	26	ND			0000 2359	
444.50	58	URS	ROSTOV-NA-DONU	URS	039E40 47N16	200	CO	A1A	5	12	ND			0000 2359	
444.50	58	URS	ROSTOV-NA-DONU	URS	039E40 47N16	200	CO	F1B	0	7	ND			0000 2359	
444.50	58	URS	VENTSPILS	URS	021E32 57N24	350	CP	F1B	7	14	ND			0000 2359	
444.50	58	URS	VENTSPILS	URS	021E32 57N24	350	CP	F1B	7	14	ND			0000 2359	
445.00	59	BUL	VARNA RADIO	BUL	027E46 43N04	100	CO	F1B	-7	0	ND			0000 2359	
445.00	59	CME	CAMPO	CME	009E51 02N22	400	CO	F1B	30	37	ND			0000 2359	
445.00	59	COG	POINTE NOIRE RADIO	COG	011E51 04S44	200	CP	F1B	20	27	ND			0000 2359	
445.00	59	DDR	RUEGEN	DDR	013E37 54N35	500	CP	A1A	19	26	ND			0000 2359	
445.00	59	E	TARIFA RADIO	E	005W33 36N03	500	CP	A1A	19	26	ND			0000 2359	
445.00	59	F	CHERBOURG	F	001W37 49N35	290	CO	F1B	4	11	ND			0000 2359	
445.00	59	GRC	PIRAEUS	GRC	023E40 37N58	370	CO	F1B	8	15	ND			0000 2359	
445.00	59	I	CAMOGLI	I	009E05 44N23	80	CV	A1A	-4	3	ND			0800 1700	
445.00	59	MDG	TOAMASINA	MDG	049E24 18S08	500	CP	F1B	34	41	ND			0000 2359	
445.00	59	QAT	QGP C RADIO	QAT	051E32 25N17	500	CV	A1A	39	46	ND			0000 2359	
445.00	59	TUN	BIZERTE RADIO 2 MDN	TUN	009E53 37N16	500	CO	A1A	19	26	ND			0600 1900	
445.00	59	URS	EVPATORIIA	UKR	033E18 45N13	200	CO	F1B	0	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
445.00	59	URS	EVPATORIIA	UKR	033E18 45N13	200	CO	F1B	0	7	ND			0000 2359	
445.50	60	ALB	DURRES PT RADIO	ALB	019E26 41N27	350	CP	F1B	7	14	ND			0000 2359	
445.50	60	ALG	TENES RADIO	ALG	001E18 36N32	100	CP	F1B	-7	0	ND			0000 2359	
445.50	60	COG	POINTE NOIRE RADIO	COG	011E51 04S44	100	CP	F1B	13	20	ND			0000 2359	
445.50	60	DNK	LYNGBY	DNK	011E25 55N50	350	CP	F1B	7	14	ND			0000 2359	
445.50	60	E	VIGO	E	008W49 42N10	500	CP	F1B	14	21	ND			0000 2359	
445.50	60	F	TOULON	F	006E04 43N08	500	CO	F1B	14	21	ND			0000 2359	
445.50	60	G	WICK RADIO	G	003W06 58N26	320	CP	F1B	6	13	ND			0000 2359	
445.50	60	GHA	TAKORADI	GHA	001W45 04N54	330	CP	A1A	31	38	ND			0000 2359	
445.50	60	GNE	BASILE	GNE	008E49 03N41	500	CP	A1A	39	46	ND			0000 2359	
445.50	60	I	MAZARA VALLO	I	012E34 37N38	100	CP	F1B	-7	0	ND			0000 2359	
445.50	60	MRC	ESSAOUIRA	MRC	009W46 31N38	350	CP	A1A	12	19	ND			0000 2359	
445.50	60	QAT	DOHA	QAT	051E35 25N45	100	CP	F1B	13	20	ND			0000 2359	
445.50	60	URS	EVPATORIIA	UKR	033E18 45N13	200	CP	A1A	5	12	ND			0000 2359	
445.50	60	URS	TALLIN	URS	024E46 59N24	350	CO	F1B	7	14	ND			0000 2359	
446.00	61	ARS	JEDDAHRADIO	ARS	039E10 21N23	500	CP	F1B	34	41	ND			0000 2359	
446.00	61	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
446.00	61	CME	DOUALA	CME	009E43 04N01	400	OT	F1B	30	37	ND			0000 2359	
446.00	61	D	KIEL RADIO	D	010E08 54N26	500	CP	A1A	19	26	ND			0000 2359	
446.00	61	E	MELILLA	E	002W56 35N18	500	CP	A1A	19	26	ND			0000 2359	
446.00	61	GRC	HERAKLION	GRC	025E45 35N19	370	CP	F1B	8	15	ND			0000 2359	
446.00	61	I	AUGUSTA	I	015E13 37N13	100	CP	F1B	-7	0	ND			0000 2359	
446.00	61	IRL	HAULBOWLINE	IRL	008W18 51N50	500	CO	A1A	19	26	ND			0000 2359	
446.00	61	KWT	AHMADI	KWT	048E04 29N06	500	CV	F1B	34	41	ND			0300 2100	
446.00	61	MCO	MONACO RADIO	MCO	007E25 43N43	500	CP	A1A	19	26	ND			0000 2359	
446.00	61	ROU	TULCEA	ROU	028E50 45N12	500	CP	F1B	14	21	ND			0000 2359	
446.00	61	URS	ARKHANGHELSK	URS	040E37 64N36	500	CP	F1B	14	21	ND			0000 2359	
446.00	61	URS	ARKHANGHELSK	URS	040E37 64N36	500	CP	F1B	14	21	ND			0000 2359	
446.50	62	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
446.50	62	BHR	HAMALA	BHR	050E28 26N09	500	CP	F1B	34	41	ND			0000 2359	
446.50	62	CME	KRIBI	CME	009E43 02N53	400	OT	A1A	35	42	ND			0000 2359	
446.50	62	COG	POINTE NOIRE RADIO	COG	011E51 04S44	100	CP	F1B	13	20	ND			0000 2359	
446.50	62	E	LAS PALMAS RADIO	CNR	015W36 27N45	500	CP	A1A	39	46	ND			0000 2359	
446.50	62	I	PESARO	I	012E55 43N54	80	CV	A1A	-4	3	ND			0800 1700	
446.50	62	POR	MONSANTO	POR	009W11 38N44	500	CO	F1B	14	21	ND			0000 2359	
446.50	62	ROU	CONSTANTA	ROU	028E37 44N06	500	CP	A1A	19	26	ND			0000 2359	
446.50	62	TUN	BIZERTE RADIO	TUN	009E53 37N16	500	CP	A1A	19	26	ND			0600 1900	
446.50	62	URS	BATUMI	URS	041E19 41N39	350	CP	A1A	12	19	ND			0000 2359	
446.50	62	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	A1A	5	12	ND			0000 2359	
446.50	62	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CP	F1B	0	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1645.40	244	TUR	SAMSUN	TUR	036E20 41N17	250	CP	J3E	10	14	ND			0000 2359	
1645.40	244	UAE	FUJAIRAH	UAE	056E20 25N09	400	CV	J3E	41	45	ND			0000 2359	
1645.40	244	URS	MURMANSK	URS	033E10 68N58	400	CO	J3E	21	25	ND			0000 2359	
1648.40	245	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	J3E	21	25	ND			0000 2359	
1648.40	245	BEL	OOSTENDE	BEL	002E58 51N15	400	CO	J3E	21	25	ND			0000 2359	
1648.40	245	BUL	PRIMORSKO RADIO	BUL	027E47 42N16	400	CO	J3E	21	25	ND			0000 2359	
1648.40	245	E	CORUNA RADIO	E	008W27 43N22	370	CP	J3E	19	23	ND			0000 2359	
1648.40	245	G	ASCENSION	ASC	014W25 07S56	200	CP	J3E	27	31	ND			0000 2359	
1648.40	245	G	PENTLAND COASTGUARD	G	002W57 58N59	180	OT	J3E	5	9	ND			0000 2359	
1648.40	245	I	TARANTO	I	017E25 40N26	220	CO	J3E	8	12	ND			0000 2359	
1648.40	245	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1648.40	245	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1648.40	245	MRC	MDIQ RADIO	MRC	005W20 35N40	100	CO	J3E	-1	3	ND			0000 2359	
1648.40	245	S	AELVSBORG RADIO	S	011E30 58N30	200	CO	J3E	7	11	ND			0000 2359	
1648.40	245	UAE	DUBAI	UAE	055E16 25N14	400	CV	J3E	41	45	ND			0000 2359	
1648.40	245	URS	PETROZAVODSK	URS	034E19 61N48	400	CO	J3E	21	25	ND			0000 2359	
1651.40	246	AGL	CABINDA	AGL	012E11 05S34	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	DDR	RUEGEN	DDR	013E37 54N35	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	E	CEUTA	E	005W16 35N53	370	CP	J3E	19	23	ND			0000 2359	
1651.40	246	F	BREST BALISAGE	F	004W29 48N23	370	OT	J3E	19	23	ND			0700 1630	
1651.40	246	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	J3E	10	14	ND			0000 2359	
1651.40	246	I	PALERMO RADIO	I	013E22 38N07	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1651.40	246	ISL	HORNAFJOERDUR RADIO	ISL	015W13 64N15	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	KEN	MOMBASA RADIO	KEN	039E44 03S58	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	LBY	TOBRUK	LBY	023E59 32N02	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	OMA	MUSSANDAM	OMA	056E21 26N22	400	CO	J3E	41	45	ND			0000 2359	
1651.40	246	ROU	MANGALIA	ROU	028E35 43N48	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	URS	NARVA-IESSU	URS	028E12 59N22	230	CO	J3E	9	13	ND			0000 2359	
1654.40	247	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	J3E	27	31	ND			0000 2359	
1654.40	247	E	BARCELONA RADIO	E	001E55 41N17	370	CP	J3E	19	23	ND			0000 2359	
1654.40	247	FNL	HELSINKI	FNL	025E02 60N09	300	CP	J3E	14	18	ND			0000 2359	
1654.40	247	G	FERRIS POINT LSTN	G	005W47 54N41	150	OT	J3E	3	7	ND			0000 2359	
1654.40	247	HOL	VLISSINGEN	HOL	003E37 51N27	180	CP	J3E	5	9	ND			0000 2359	
1654.40	247	I	BARI RADIO	I	016E59 41N05	400	CP	J3E	21	25	ND			0000 2359	
1654.40	247	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1654.40	247	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1654.40	247	NOR	BERGEN	NOR	005E22 60N25	370	CP	J3E	19	23	ND			0000 2359	
1654.40	247	NOR	HARSTAD	NOR	016E04 69N18	370	CP	J3E	19	23	ND			0800 1800	
1654.40	247	POR	FIGUEIRA DA FOZ	POR	008W50 40N08	200	CP	J3E	7	11	ND			0000 2359	
1654.40	247	POR	OLHAO	POR	007W50 37N02	200	CP	J3E	7	11	ND			0000 2359	
1654.40	247	TUN	MAHDIA RADIO 2 MDN	TUN	011E04 35N30	400	CO	J3E	21	25	ND			0600 1900	
1654.40	247	URS	BATUMI	URS	041E19 41N39	400	CP	J3E	21	25	ND			0000 2359	
1654.40	247	URS	MEZEN	URS	044E17 65N51	400	CO	J3E	21	25	ND			0000 2359	
1654.40	247	URS	NARIAN-MAR	URS	053E00 67N39	400	CO	J3E	21	25	ND			0000 2359	
1657.40	248	AGL	LOBITO	AGL	013E33 12S22	400	CP	J3E	41	45	ND			0000 2359	
1657.40	248	D	FLENSBURG	D	009E41 54N48	400	CO	J3E	21	25	ND			0000 2359	
1657.40	248	D	WILHELMSHAVEN	D	007E37 53N41	400	CO	J3E	21	25	ND			0000 2359	
1657.40	248	E	CHIPIONA RADIO	E	006W25 36N42	370	CP	J3E	19	23	ND			0000 2359	
1657.40	248	FNL	HELSINKI RV	FNL	024E50 60N13	300	CO	J3E	14	18	ND			0000 2359	
1657.40	248	G	BURRA FIRTH	G	000W53 60N48	150	OT	J3E	3	7	ND			0900 1700	
1657.40	248	G	RATHLIN EAST LSTN	G	006W10 55N18	150	OT	J3E	3	7	ND			0000 2359	
1657.40	248	GNE	BATA	GNE	009E44 01N49	400	CO	J3E	41	45	ND			0000 2359	
1657.40	248	GRC	LIMNOS	GRC	025E11 39N54	370	CP	J3E	19	23	ND			0000 2359	
1657.40	248	I	LAMPEDUSA RADIO	I	012E36 35N30	400	CP	J3E	21	25	ND			0000 2359	
1657.40	248	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1657.40	248	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1657.40	248	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	J3E	10	14	ND			0000 2359	
1657.40	248	URS	TEMRIUK	URS	037E24 45N17	90	OT	J3E	-2	2	ND			0000 2359	
1657.40	248	YUG	RIJEKA	YUG	014E33 45N07	300	CP	J3E	14	18	ND			0000 2359	
1660.40	249	E	BARBATE	E	005W55 36N11	370	CV	J3E	19	23	ND			0000 2359	
1660.40	249	G	JERSEY RADIO	G	002W12 49N14	150	CP	J3E	3	7	ND			0000 2359	
1660.40	249	G	NORWICK RADIO	G	000W45 60N29	320	CP	J3E	15	19	ND			0000 2359	
1660.40	249	GRC	CHIOS	GRC	026E08 38N19	370	CP	J3E	19	23	ND			0000 2359	
1660.40	249	HOL	IJMUIDEN	HOL	004E35 52N28	100	CP	J3E	-1	3	ND			0000 2359	
1660.40	249	I	GENOVA RADIO	I	008E56 44N25	400	CP	J3E	21	25	ND			0000 2359	
1660.40	249	ISL	REYKJAVIK RADIO	ISL	022W02 64N09	400	CP	J3E	21	25	ND			0000 2359	
1660.40	249	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	NIG	BURUTU	NIG	005E30 05N21	50	CV	J3E	12	16	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
449.00	67	ARS	JEDDAHRADIO	ARS	039E10 21N23	500	CP	F1B	34	41	ND			0000 2359	
449.00	67	CME	LIMBE	CME	009E22 04N02	200	CO	F1B	20	27	ND			0000 2359	
449.00	67	COG	POINTE NOIRE RADIO	COG	011E51 04S44	500	CP	F1B	34	41	ND			0000 2359	
449.00	67	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	A1A	12	19	ND			0000 2359	
449.00	67	E	CABO PENAS RADIO	E	005W51 43N39	500	CP	A1A	19	26	ND			0000 2359	
449.00	67	GHA	TEMA	GHA	000W00 05N37	500	CP	A1A	39	46	ND			0000 2359	
449.00	67	GRC	ASPROPYRGOS	GRC	023E35 38N02	370	CO	F1B	8	15	ND			0000 2359	
449.00	67	I	GENOVA	I	008E56 44N25	250	CP	F1B	2	9	ND			0000 2359	
449.00	67	KWT	RAS ALZOOR	KWT	048E56 28N28	500	CP	F1B	34	41	ND			0300 2100	
449.00	67	MRC	CASABLANCA RADIO	MRC	007W34 33N34	400	CP	A1A	15	22	ND			0000 2359	
449.00	67	TUN	SFAX RADIO	TUN	010E44 34N44	500	CP	A1A	19	26	ND			0600 2359	
449.00	67	TUR	MERSIN	TUR	034E36 36N49	250	CP	F1B	2	9	ND			0000 2359	
449.00	67	URS	ASTRAKHAN	URS	047E42 46N55	100	CO	F1B	-7	0	ND			0000 2359	
449.00	67	URS	ASTRAKHAN	URS	047E42 46N55	100	CO	F1B	-7	0	ND			0000 2359	
449.00	67	URS	GELENDJIK	URS	038E06 44N35	350	OT	A1A	12	19	ND			0000 2359	
449.00	67	URS	RIGA	URS	024E05 56N57	200	CO	F1B	0	7	ND			0000 2359	
449.00	67	URS	RIGA	URS	024E05 56N57	200	CO	F1B	0	7	ND			0000 2359	
449.50	68	AGL	LUANDA	AGL	013E14 08S47	500	CP	F1B	34	41	ND			0000 2359	
449.50	68	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	500	CP	F1B	14	21	ND			0000 2359	
449.50	68	BHR	BAHRAIN	BHR	050E28 26N09	200	CP	F1B	20	27	ND			0000 2359	
449.50	68	CME	CAMPO	CME	009E51 02N22	400	CP	F1B	30	37	ND			0700 1900	
449.50	68	E	LAS PALMAS RADIO	CNR	015W36 27N45	500	CP	F1B	34	41	ND			0000 2359	
449.50	68	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	F1B	8	15	ND			0000 2359	
449.50	68	HOL	OUDDORP	HOL	003E53 51N48	500	CP	F1B	14	21	ND			0000 2359	
449.50	68	I	AUGUSTA	I	015E13 37N13	100	CP	F1B	-7	0	ND			0000 2359	
449.50	68	I	LA MADDALENA	I	009E20 41N13	380	CO	F1B	9	16	ND			0000 2359	
449.50	68	IRQ	FAO	IRQ	048E29 29N58	100	CV	F1B	13	20	ND			0000 2359	
449.50	68	URS	TCHERNOMORSKOE	UKR	032E43 45N30	200	OT	F1B	0	7	ND			0000 2359	
449.50	68	URS	TCHERNOMORSKOE	UKR	032E43 45N30	200	OT	A1A	5	12	ND			0000 2359	
449.50	68	URS	KLAIPEDA	URS	021E12 55N46	350	CO	F1B	7	14	ND			0000 2359	
449.50	68	URS	KLAIPEDA	URS	021E12 55N46	350	CO	A1A	12	19	ND			0000 2359	
449.50	68	URS	PETROZAVODSK	URS	034E19 61N48	350	OT	F1B	7	14	ND			0000 2359	
449.50	68	URS	PETROZAVODSK	URS	034E19 61N48	350	OT	F1B	7	14	ND			0000 2359	
450.00	69	ALG	BEJAIA RADIO	ALG	005E05 36N45	190	CP	F1B	-1	6	ND			0000 2359	
450.00	69	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	190	CP	A1A	4	11	ND			0000 2359	
450.00	69	URS	ANAPA	URS	037E20 44N54	190	CO	F1B	-1	6	ND			0000 2359	
450.00	69	URS	ANAPA	URS	037E20 44N54	190	CO	A1A	4	11	ND			0000 2359	
450.00	69	URS	ANAPA	URS	037E20 44N54	190	OT	A1A	4	11	ND			0000 2359	
450.00	69	URS	ANAPA	URS	037E20 44N54	190	OT	F1B	-1	6	ND			0000 2359	
450.00	69	URS	GURIEV	URS	051E55 47N03	190	CO	F1B	-1	6	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
450.00	69	URS	GURIEV	URS	051E55 47N03	190	CO	A1A	4	11	ND			0000 2359	
450.00	69	URS	GURIEV	URS	051E55 47N03	190	CO	F1B	-1	6	ND			0000 2359	
450.00	69	URS	GURIEV	URS	051E55 47N03	190	CO	A1A	4	11	ND			0000 2359	
450.00	69	URS	KANDALAKCHA	URS	032E29 67N10	190	CP	A1A	4	11	ND			0000 2359	
450.00	69	URS	KANDALAKCHA	URS	032E29 67N10	190	CP	F1B	-1	6	ND			0000 2359	
450.00	69	URS	KRASNOVODSK	URS	052E57 40N00	190	CO	A1A	4	11	ND			0000 2359	
450.00	69	URS	KRASNOVODSK	URS	052E57 40N00	190	CO	F1B	-1	6	ND			0000 2359	
450.00	69	URS	MAKHATCHKALA	URS	047E30 42N59	190	CP	A1A	4	11	ND			0000 2359	
450.00	69	URS	MAKHATCHKALA	URS	047E30 42N59	190	CP	F1B	-1	6	ND			0000 2359	
450.00	69	URS	MEZEN	URS	044E17 65N51	190	CO	F1B	-1	6	ND			0000 2359	
450.00	69	URS	MEZEN	URS	044E17 65N51	190	CO	A1A	4	11	ND			0000 2359	
450.00	69	URS	PETROZAVODSK	URS	034E19 61N48	190	CO	F1B	-1	6	ND			0000 2359	
450.00	69	URS	PETROZAVODSK	URS	034E19 61N48	190	CO	A1A	4	11	ND			0000 2359	
450.00	69	URS	TALLIN	URS	024E46 59N24	190	CO	F1B	-1	6	ND			0000 2359	
450.00	69	URS	TALLIN	URS	024E46 59N24	190	CO	A1A	4	11	ND			0000 2359	
450.50	70	URS	BELGOROD-DNESTROVSKY	UKR	030E22 46N11	190	CO	F1B	-1	6	ND			0000 2359	
450.50	70	URS	BELGOROD-DNESTROVSKY	UKR	030E22 46N11	190	CO	A1A	4	11	ND			0000 2359	
450.50	70	URS	JDANOV	UKR	037E31 47N08	190	CP	F1B	-1	6	ND			0000 2359	
450.50	70	URS	JDANOV	UKR	037E31 47N08	190	CP	A1A	4	11	ND			0000 2359	
450.50	70	URS	BELOMORSK	URS	034E41 64N36	190	CO	F1B	-1	6	ND			0000 2359	
450.50	70	URS	BELOMORSK	URS	034E41 64N36	190	CO	A1A	4	11	ND			0000 2359	
450.50	70	URS	FORT SHEVTCHENKO	URS	050E18 44N30	190	CO	F1B	-1	6	ND			0000 2359	
450.50	70	URS	FORT SHEVTCHENKO	URS	050E18 44N30	190	CO	A1A	4	11	ND			0000 2359	
450.50	70	URS	KALININGRAD	URS	020E30 54N45	190	OT	A1A	4	11	ND			0000 2359	
450.50	70	URS	KALININGRAD	URS	020E30 54N45	190	OT	A1A	4	11	ND			0000 2359	
450.50	70	URS	KALININGRAD	URS	020E30 54N45	190	OT	F1B	-1	6	ND			0000 2359	
450.50	70	URS	LENINGRAD	URS	030E21 59N59	190	CP	A1A	4	11	ND			0000 2359	
450.50	70	URS	LENINGRAD	URS	030E21 59N59	190	CP	F1B	-1	6	ND			0000 2359	
450.50	70	URS	TCHELEKEN	URS	053E24 39N24	190	CO	A1A	4	11	ND			0000 2359	
450.50	70	URS	TCHELEKEN	URS	053E24 39N24	190	CO	F1B	-1	6	ND			0000 2359	
451.00	71	ALG	ORAN RADIO	ALG	000W08 35N46	190	CP	A1A	4	11	ND			0000 2359	
451.00	71	URS	IALTA	UKR	034E10 44N39	190	CP	F1B	-1	6	ND			0000 2359	
451.00	71	URS	IALTA	UKR	034E10 44N39	190	CP	A1A	4	11	ND			0000 2359	
451.00	71	URS	ASTRAKHAN	URS	047E42 46N55	190	CP	F1B	-1	6	ND			0000 2359	
451.00	71	URS	BAKU	URS	049E45 40N20	190	CO	A1A	4	11	ND			0000 2359	
451.00	71	URS	BAKU	URS	049E45 40N20	190	CO	F1B	-1	6	ND			0000 2359	
451.00	71	URS	BAKU	URS	049E45 40N20	190	OT	A1A	4	11	ND			0000 2359	
451.00	71	URS	BAKU	URS	049E45 40N20	190	OT	F1B	-1	6	ND			0000 2359	
451.00	71	URS	PIARNU	URS	024E33 58N23	190	CO	F1B	-1	6	ND			0000 2359	
451.00	71	URS	PIARNU	URS	024E33 58N23	190	CO	A1A	4	11	ND			0000 2359	

Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)	Antenna characteristics: Azimuth of maximum radiation (degrees)	Antenna characteristics: Maximum antenna gain (dB)	Antenna characteristics: Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1	2	3	4	5	6	7	8	9	10A	10B	11 A	11 B	11 C	12	13

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
451.00	71	URS	SUKHUMI	URS	040E42 43N00	190	CP	F1B	-1	6	ND			0000 2359	
451.00	71	URS	SUKHUMI	URS	040E42 43N00	190	CP	A1A	4	11	ND			0000 2359	
451.50	72	URS	IZMAIL	UKR	028E51 45N20	190	CO	F1B	-1	6	ND			0000 2359	
451.50	72	URS	IZMAIL	UKR	028E51 45N20	190	CO	A1A	4	11	ND			0000 2359	
451.50	72	URS	AZOV	URS	039E25 45N53	190	CO	F1B	-1	6	ND			0000 2359	
451.50	72	URS	AZOV	URS	039E25 45N53	190	CO	A1A	4	11	ND			0000 2359	
451.50	72	URS	KLAIPEDA	URS	021E12 55N46	190	CO	F1B	-1	6	ND			0000 2359	
451.50	72	URS	KLAIPEDA	URS	021E12 55N46	190	CO	A1A	4	11	ND			0000 2359	
451.50	72	URS	NARVA-IESSU	URS	028E12 59N22	190	CO	F1B	-1	6	ND			0000 2359	
451.50	72	URS	NARVA-IESSU	URS	028E12 59N22	190	CO	A1A	4	11	ND			0000 2359	
451.50	72	URS	ONEGA	URS	038E10 63N57	190	CO	A1A	4	11	ND			0000 2359	
451.50	72	URS	ONEGA	URS	038E10 63N57	190	CO	F1B	-1	6	ND			0000 2359	
451.50	72	URS	TCHETCHEN	URS	047E39 44N00	190	CO	A1A	4	11	ND			0000 2359	
451.50	72	URS	TCHETCHEN	URS	047E39 44N00	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	ALG	ANNABA RADIO	ALG	007E45 36N54	190	CP	A1A	4	11	ND			0000 2359	
452.00	73	ALG	TENES RADIO	ALG	001E18 36N32	190	CP	A1A	4	11	ND			0000 2359	
452.00	73	URS	OTCHAKOV	UKR	031E30 46N37	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	URS	OTCHAKOV	UKR	031E30 46N37	190	CO	A1A	4	11	ND			0000 2359	
452.00	73	URS	KESTENGA	URS	032E00 65N55	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	URS	KESTENGA	URS	032E00 65N55	190	CO	A1A	4	11	ND			0000 2359	
452.00	73	URS	KHUDAT	URS	048E39 41N38	190	CO	A1A	4	11	ND			0000 2359	
452.00	73	URS	KHUDAT	URS	048E39 41N38	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	URS	KINGISEPP	URS	022E33 58N15	190	CO	A1A	4	11	ND			0000 2359	
452.00	73	URS	KINGISEPP	URS	022E33 58N15	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	URS	KINGISEPP	URS	022E33 58N15	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	URS	KINGISEPP	URS	022E33 58N15	190	CO	A1A	4	11	ND			0000 2359	
452.00	73	URS	LODEINOE	URS	033E34 60N43	190	CO	F1B	-1	6	ND			0000 2359	
452.00	73	URS	LODEINOE	URS	033E34 60N43	190	CO	A1A	4	11	ND			0000 2359	
452.00	73	URS	PICUNDA	URS	040E21 43N09	190	CP	F1B	-1	6	ND			0000 2359	
452.00	73	URS	PICUNDA	URS	040E21 43N09	190	CP	A1A	4	11	ND			0000 2359	
452.50	74	URS	ILITCHEVSK	UKR	030E41 46N19	190	CP	F1B	-1	6	ND			0000 2359	
452.50	74	URS	ILITCHEVSK	UKR	030E41 46N19	190	CP	A1A	4	11	ND			0000 2359	
452.50	74	URS	ARKHANGHELSK	URS	040E37 64N36	190	CO	F1B	-1	6	ND			0000 2359	
452.50	74	URS	ARKHANGHELSK	URS	040E37 64N36	190	CO	A1A	4	11	ND			0000 2359	
452.50	74	URS	ATCHUEVO	URS	037E27 45N43	190	CO	F1B	-1	6	ND			0000 2359	
452.50	74	URS	ATCHUEVO	URS	037E27 45N43	190	CO	A1A	4	11	ND			0000 2359	
452.50	74	URS	KALININGRAD	URS	020E30 54N45	190	CO	A1A	4	11	ND			0000 2359	
452.50	74	URS	KALININGRAD	URS	020E30 54N45	190	CO	F1B	-1	6	ND			0000 2359	
452.50	74	URS	KOLGUEV	URS	049E07 69N30	190	OT	F1B	-1	6	ND			0000 2359	
452.50	74	URS	KOLGUEV	URS	049E07 69N30	190	OT	A1A	4	11	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
452.50	74	URS	MUMRA	URS	047E41 45N45	190	CO	A1A	4	11	ND			0000 2359	
452.50	74	URS	MUMRA	URS	047E41 45N45	190	CO	F1B	-1	6	ND			0000 2359	
452.50	74	URS	MURMANSK	URS	033E10 68N58	190	CP	A1A	4	11	ND			0000 2359	
452.50	74	URS	MURMANSK	URS	033E10 68N58	190	CP	F1B	-1	6	ND			0000 2359	
453.00	75	ALG	ALGER RADIO	ALG	003E18 36N40	190	CP	A1A	4	11	ND			0000 2359	
453.00	75	URS	ODESSA	UKR	030E45 46N29	190	OT	F1B	-1	6	ND			0000 2359	
453.00	75	URS	ODESSA	UKR	030E45 46N29	190	OT	A1A	4	11	ND			0000 2359	
453.00	75	URS	BATUMI	URS	041E19 41N39	190	OT	F1B	-1	6	ND			0000 2359	
453.00	75	URS	BATUMI	URS	041E19 41N39	190	OT	A1A	4	11	ND			0000 2359	
453.00	75	URS	MAKHATCHKALA	URS	047E30 42N59	190	CO	A1A	4	11	ND			0000 2359	
453.00	75	URS	MAKHATCHKALA	URS	047E30 42N59	190	CO	F1B	-1	6	ND			0000 2359	
453.00	75	URS	MAKHATCHKALA	URS	047E30 42N59	190	CO	A1A	4	11	ND			0000 2359	
453.00	75	URS	MAKHATCHKALA	URS	047E30 42N59	190	CO	F1B	-1	6	ND			0000 2359	
453.00	75	URS	MAKHATCHKALA	URS	047E30 42N59	190	CO	A1A	4	11	ND			0000 2359	
453.00	75	URS	MAKHATCHKALA	URS	047E30 42N59	190	CO	F1B	-1	6	ND			0000 2359	
453.00	75	URS	RIGA	URS	024E05 56N57	190	CP	F1B	-1	6	ND			0000 2359	
453.00	75	URS	RIGA	URS	024E05 56N57	190	CP	A1A	4	11	ND			0000 2359	
453.00	75	URS	ROSTOV-NA-DONU	URS	039E40 47N16	190	CO	A1A	4	11	ND			0000 2359	
453.00	75	URS	ROSTOV-NA-DONU	URS	039E40 47N16	190	CO	F1B	-1	6	ND			0000 2359	
453.00	75	URS	TCHUPA	URS	033E00 66N16	190	CO	F1B	-1	6	ND			0000 2359	
453.00	75	URS	TCHUPA	URS	033E00 66N16	190	CO	A1A	4	11	ND			0000 2359	
510.50	93	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	
510.50	93	CME	KRIBI	CME	009E43 02N53	400	CP	F1B	30	37	ND			0000 2359	
510.50	93	DDR	RUEGEN	DDR	013E37 54N35	200	CP	F1B	0	7	ND			0000 2359	
510.50	93	E	PALMA MALLORCA	E	002E35 39N35	500	CP	A1A	19	26	ND			0000 2359	
510.50	93	F	CHERBOURG	F	001W37 49N35	290	CO	F1B	4	11	ND			0000 2359	
510.50	93	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	A1A	7	14	ND			0000 2359	
510.50	93	I	TARANTO	I	017E25 40N26	380	CO	F1B	9	16	ND			0000 2359	
510.50	93	I	TRIESTE	I	013E46 45N39	80	CV	F1B	-9	-2	ND			0800 1700	
510.50	93	IRQ	FAO	IRQ	048E29 29N58	400	CV	F1B	30	37	ND			0000 2359	
510.50	93	TUR	IZMIR	TUR	027E10 38N24	250	CP	F1B	2	9	ND			0000 2359	
510.50	93	TUR	TRABZON	TUR	039E43 41N00	250	CP	F1B	2	9	ND			0000 2359	
510.50	93	URS	ODESSA	UKR	030E45 46N29	350	CP	A1A	12	19	ND			0000 2359	
510.50	93	URS	ASTRAKHAN	URS	047E42 46N55	350	OT	A1A	12	19	ND			0000 2359	
510.50	93	URS	ASTRAKHAN	URS	047E42 46N55	350	OT	F1B	7	14	ND			0000 2359	
510.50	93	URS	KRASNOVODSK	URS	052E57 40N00	200	CP	A1A	5	12	ND			0000 2359	
510.50	93	URS	TALLIN	URS	024E46 59N24	350	OT	F1B	7	14	ND			0000 2359	
510.50	93	URS	TALLIN	URS	024E46 59N24	350	OT	A1A	12	19	ND			0000 2359	
511.00	94	ALG	ORAN RADIO	ALG	000W08 35N46	100	CP	F1B	-7	0	ND			0000 2359	
511.00	94	BEN	COTONOU	BEN	002E28 06N22	100	CP	F1B	13	20	ND			0000 2359	

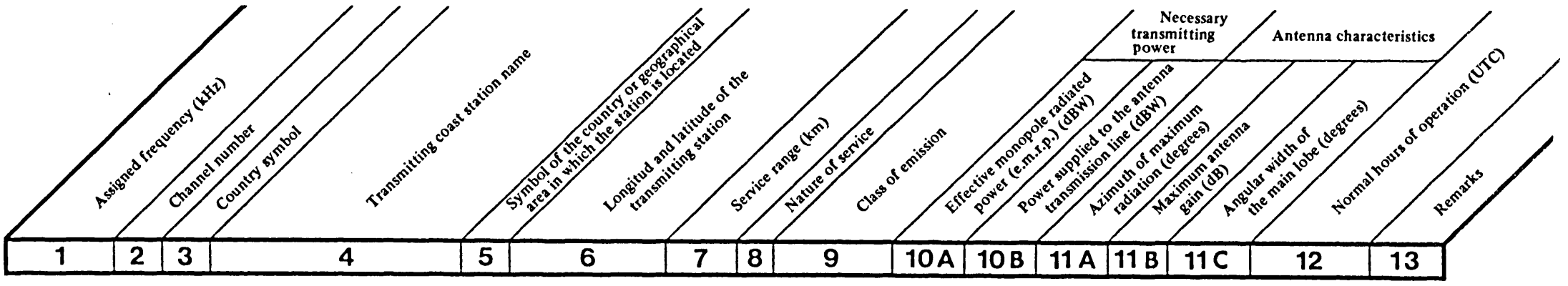
1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting coast station name
5	Symbol of the country or geographical area in which the station is located
6	Longitud and latitude of the transmitting station
7	Service range (km)
8	Nature of service
9	Class of emission
10A	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)
10B	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)
11A	Antenna characteristics: Azimuth of maximum radiation (degrees)
11B	Antenna characteristics: Maximum antenna gain (dB)
11C	Antenna characteristics: Angular width of the main lobe (degrees)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
511.00	94	BHR	BAHRAIN	BHR	050E28 26N09	500	CP	F1B	34	41	ND			0000 2359	
511.00	94	CME	LIMBE	CME	009E22 04N02	400	CP	F1B	30	37	ND			0000 2359	
511.00	94	F	ARCACHON	F	001W10 44N39	500	CP	F1B	14	21	ND			0000 2359	
511.00	94	GRC	MOURNIES KRITIS	GRC	024E01 35N29	370	CO	A1A	13	20	ND			0000 2359	
511.00	94	POL	GDYNIA	POL	018E32 54N32	500	OT	A1A	19	26	ND			0000 2359	
511.00	94	POR	SAGRES	POR	008W57 37N00	350	CO	F1B	7	14	ND			0000 2359	
511.00	94	TUN	BIZERTE	TUN	009E48 37N09	400	CO	A1A	15	22	ND			0000 2359	
511.00	94	TUR	SAMSUN	TUR	036E20 41N17	250	CP	F1B	2	9	ND			0000 2359	
511.00	94	URS	ILITCHEVSK	UKR	030E41 46N19	200	CO	A1A	5	12	ND			0000 2359	
511.00	94	URS	ILITCHEVSK	UKR	030E41 46N19	200	CO	F1B	0	7	ND			0000 2359	
511.00	94	URS	TCHELEKEN	URS	053E24 39N24	200	CO	A1A	5	12	ND			0000 2359	
511.00	94	URS	TCHELEKEN	URS	053E24 39N24	200	CO	F1B	0	7	ND			0000 2359	
511.50	95	ALG	BEJAIA RADIO	ALG	005E05 36N45	100	CP	F1B	-7	0	ND			0000 2359	
511.50	95	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	200	CP	F1B	0	7	ND			0000 2359	
511.50	95	BEN	COTONOU	BEN	002E28 06N22	500	CP	F1B	34	41	ND			0000 2359	
511.50	95	CME	DOUALA	CME	009E42 04N02	100	CP	F1B	13	20	ND			0000 2359	
511.50	95	CTI	S. PEDRO PORT	CTI	006W37 04N44	200	CR	F1B	20	27	ND			0000 2359	
511.50	95	D	NORDDEICH RADIO	D	007E12 53N38	500	CP	A1A	19	26	ND			0000 2359	
511.50	95	DNK	TORSHAVN	DNK	006W47 62N01	400	CP	F1B	10	17	ND			0000 2359	
511.50	95	E	FINISTERRE RADIO	E	009W16 42N54	500	CP	A1A	19	26	ND			0000 2359	
511.50	95	FNL	HELSINKI	FNL	025E54 60N29	500	CP	A1A	19	26	ND			0000 2359	
511.50	95	GRC	MOURNIES KRITIS	GRC	024E01 35N29	370	CO	F1B	8	15	ND			0000 2359	
511.50	95	I	ANCONA	I	013E28 43N36	500	CP	A1A	19	26	ND			0000 2359	
511.50	95	IRQ	BASRAH	IRQ	047E47 30N33	100	CR	F1B	-7	0	ND			0000 2359	
511.50	95	NOR	ROERVIK	NOR	011E12 64N50	180	CP	A1A	4	11	ND			0000 2359	
511.50	95	URS	BELGOROD-DNESTROVSKY	UKR	030E22 46N11	200	CO	F1B	0	7	ND			0000 2359	
511.50	95	URS	BELGOROD-DNESTROVSKY	UKR	030E22 46N11	200	CO	A1A	5	12	ND			0000 2359	
511.50	95	URS	ANAPA	URS	037E20 44N54	200	CO	F1B	0	7	ND			0000 2359	
511.50	95	URS	ANAPA	URS	037E20 44N54	200	CO	A1A	5	12	ND			0000 2359	
511.50	95	URS	ANAPA	URS	037E20 44N54	200	CO	A1A	5	12	ND			0000 2359	
511.50	95	URS	ANAPA	URS	037E20 44N54	200	CO	F1B	0	7	ND			0000 2359	
511.50	95	URS	BEKTACH	URS	052E34 41N37	200	CO	A1A	5	12	ND			0000 2359	
511.50	95	URS	BEKTACH	URS	052E34 41N37	200	CO	F1B	0	7	ND			0000 2359	
511.50	95	URS	MUMRA	URS	047E41 45N45	200	CO	A1A	5	12	ND			0000 2359	
511.50	95	URS	MUMRA	URS	047E41 45N45	200	CO	F1B	0	7	ND			0000 2359	
512.50	96	ALG	BEJAIA RADIO	ALG	005E05 36N45	500	CP	A1A	19	26	ND			0000 2359	
512.50	96	DNK	TORSHAVN	DNK	006W46 62N01	500	CO	A1A	19	26	ND			0000 2359	
512.50	96	G	LANDS END RADIO	G	005W40 50N07	320	CP	F1B	6	13	ND			0000 2359	
512.50	96	I	TRIESTE	I	013E46 45N40	500	CP	A1A	19	26	ND			0000 2359	
512.50	96	QAT	DOHA	QAT	051E35 25N45	500	CP	A1A	39	46	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
512.50	96	TUR	ANTALYA	TUR	030E42 36N53	250	CP	A1A	7	14	ND			0000 2359	
512.50	96	URS	BEKTACH	URS	052E34 41N37	200	CO	F1B	0	7	ND			0000 2359	
512.50	96	URS	BEKTACH	URS	052E34 41N37	200	CO	F1B	0	7	ND			0000 2359	
512.50	96	URS	KLAIPEDA	URS	021E12 55N46	350	CO	F1B	7	14	ND			0000 2359	
512.50	96	URS	KLAIPEDA	URS	021E12 55N46	350	CO	F1B	7	14	ND			0000 2359	
512.50	96	URS	VILKOVO	URS	029E36 45N25	200	CO	F1B	0	7	ND			0000 2359	
512.50	96	URS	VILKOVO	URS	029E36 45N25	200	CO	A1A	5	12	ND			0000 2359	
513.00	97	E	ALBORAN	E	003W02 35N56	500	CP	A1A	19	26	ND			0000 2359	
513.00	97	I	AUGUSTA	I	015E13 37N13	500	CP	A1A	19	26	ND			0000 2359	
513.00	97	IRL	MALIN HEAD	IRL	007W21 55N22	500	CP	A1A	19	26	ND			0000 2359	
513.00	97	ISR	ELAT RADIO	ISR	034E56 29N30	500	CP	F1B	34	41	ND			0000 2359	
513.00	97	S	GOETEBORG RADIO	S	011E56 57N28	500	CP	A1A	19	26	ND			0000 2359	
513.00	97	TUR	ISTANBUL	TUR	028E56 41N04	400	CP	A1A	15	22	ND			0000 2359	
513.00	97	URS	JDANOV	UKR	037E31 47N08	350	CO	A1A	12	19	ND			0000 2359	
513.00	97	URS	LENINGRAD	URS	030E21 59N59	350	CP	F1B	7	14	ND			0000 2359	
513.00	97	URS	LENINGRAD	URS	030E21 59N59	350	CP	A1A	12	19	ND			0000 2359	
513.00	97	URS	MAKHATCHKALA	URS	047E30 42N59	350	CP	A1A	12	19	ND			0000 2359	
513.00	97	URS	MAKHATCHKALA	URS	047E30 42N59	350	CP	F1B	7	14	ND			0000 2359	
513.00	97	URS	UMBA	URS	034E22 66N41	200	CP	F1B	0	7	ND			0000 2359	
513.00	97	URS	UMBA	URS	034E22 66N41	200	CP	A1A	5	12	ND			0000 2359	
513.50	98	DNK	SKAGEN	DNK	010E34 57N44	350	CP	F1B	7	14	ND			0000 2359	
513.50	98	E	BAGUR RADIO	E	003E13 41N58	500	CP	A1A	19	26	ND			0000 2359	
513.50	98	I	AUGUSTA	I	015E13 37N13	200	CP	F1B	0	7	ND			0000 2359	
513.50	98	I	TRIESTE	I	013E46 45N40	100	CP	F1B	-7	0	ND			0000 2359	
513.50	98	IRL	MALIN HEAD	IRL	007W21 55N22	500	CP	F1B	14	21	ND			0000 2359	
513.50	98	IRQ	FAO	IRQ	048E29 29N58	400	CV	A1A	35	42	ND			0000 2359	
513.50	98	OMA	MUSCAT	OMA	058E30 23N37	400	CR	F1B	30	37	ND			0000 2359	
513.50	98	TUR	CANAKKALE	TUR	026E24 40N08	250	CP	F1B	2	9	ND			0000 2359	
513.50	98	URS	NIKOLAEV	UKR	032E00 46N57	200	OT	A1A	5	12	ND			0000 2359	
513.50	98	URS	VENTSPILS	URS	021E32 57N24	100	CO	F1B	-7	0	ND			0000 2359	
513.50	98	URS	VENTSPILS	URS	021E32 57N24	100	CO	F1B	-7	0	ND			0000 2359	
513.50	98	YUG	BAR	YUG	019E06 42N01	200	CP	F1B	0	7	ND			0000 2359	
514.00	99	BHR	BAHRAIN	BHR	050E28 26N09	100	CP	F1B	13	20	ND			0000 2359	
514.00	99	CPV	PRAIA	CPV	023W30 14N55	100	CP	F1B	13	20	ND			1000 2000	
514.00	99	E	LAS PALMAS RADIO	CNR	015W36 27N45	500	CP	F1B	34	41	ND			0000 2359	
514.00	99	FNL	VAASA	FNL	021E09 63N19	500	CP	A1A	19	26	ND			0000 2359	
514.00	99	G	NORWICK RADIO	G	000W45 60N29	320	CP	F1B	6	13	ND			0000 2359	
514.00	99	GRC	LIMNOS	GRC	025E11 39N54	370	CP	F1B	8	15	ND			0000 2359	
514.00	99	ISL	REYKJAVIK RADIO	ISL	021W51 64N05	500	CP	A1A	19	26	ND			0000 2359	
514.00	99	MRC	NADOR	MRC	002W56 35N10	350	CP	A1A	12	19	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
514.00	99	POL	GDYNIA	POL	018E32 54N32	100	CP	F1B	-7	0	ND			0000 2359	
514.00	99	POL	WITOWO	POL	016E32 54N33	300	CP	A1A	10	17	ND			0000 2359	
514.00	99	TUN	KELIBIA RADIO	TUN	011E05 36N50	400	CP	A1A	15	22	ND			0600 1900	
514.00	99	URS	OTCHAKOV	UKR	031E30 46N37	200	CP	A1A	5	12	ND			0000 2359	
514.00	99	URS	ARKHANGHELSK	URS	040E37 64N36	100	OT	F1B	-7	0	ND			0000 2359	
514.00	99	URS	ARKHANGHELSK	URS	040E37 64N36	100	OT	F1B	-7	0	ND			0000 2359	
514.00	99	URS	BAKU	URS	049E45 40N20	350	CP	F1B	7	14	ND			0000 2359	
514.00	99	URS	GURIEV	URS	051E55 47N03	200	CP	F1B	0	7	ND			0000 2359	
514.00	99	URS	GURIEV	URS	051E55 47N03	200	CP	F1B	0	7	ND			0000 2359	
514.50	100	ALG	BEJAIA RADIO	ALG	005E05 36N45	100	CP	F1B	-7	0	ND			0000 2359	
514.50	100	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	100	CP	F1B	-7	0	ND			0000 2359	
514.50	100	ALG	TENES RADIO	ALG	001E18 36N32	100	CP	F1B	-7	0	ND			0000 2359	
514.50	100	CPV	PRAIA	CPV	023W30 14N55	500	CP	F1B	34	41	ND			1000 2000	
514.50	100	F	MARSEILLE	F	005E21 43N19	200	CP	F1B	0	7	ND			0000 2359	
514.50	100	I	BARI	I	017E25 40N26	500	CP	A1A	19	26	ND			0000 2359	
514.50	100	JOR	AQABA RADIO	JOR	034E59 29N33	500	CP	A1A	39	46	ND			0000 2359	
514.50	100	KWT	HUBAN	KWT	047E41 29N31	500	CP	A1A	39	46	ND			0000 2359	
514.50	100	S	AELVSBORG RADIO	S	011E30 58N30	400	CO	A1A	15	22	ND			0000 2359	
514.50	100	SDN	PT SUDAN	SDN	037E14 19N38	400	CP	A1A	35	42	ND			0000 2359	
514.50	100	SOM	MOGADISCIO	SOM	045E20 02N02	400	CO	A1A	35	42	ND			0000 2359	
514.50	100	TUR	TOPHANE KULESI	TUR	028E59 41N01	250	CO	A1A	7	14	ND			0000 2359	
514.50	100	URS	NOVOROSSIISK	URS	037E42 44N42	350	CP	A1A	12	19	ND			0000 2359	
514.50	100	YMS	HISWA	YMS	044E54 12N49	500	CP	A1A	39	46	ND			0000 2359	
515.00	101	ALG	ORAN RADIO	ALG	000W08 35N46	100	CP	F1B	-7	0	ND			0000 2359	
515.00	101	BUL	BOURGAS RADIO	BUL	027E29 42N30	100	CO	F1B	-7	0	ND			0000 2359	
515.00	101	CPV	PRAIA	CPV	023W30 14N55	100	CP	F1B	13	20	ND			1000 2000	
515.00	101	GRC	HERAKLION	GRC	025E45 35N19	370	CP	A1A	13	20	ND			0000 2359	
515.00	101	IRL	VALENTIA	IRL	010W21 51N56	500	CP	A1A	19	26	ND			0000 2359	
515.00	101	KWT	AHMADI	KWT	048E04 29N06	500	CV	A1A	39	46	ND			0300 2100	
515.00	101	MRC	LAAYOUNE	MRC	013W13 27N10	400	CP	A1A	35	42	ND			0000 2359	
515.00	101	POL	SZCZECIN	POL	014E35 53N28	500	CP	F1B	14	21	ND			0000 2359	
515.00	101	TUN	TUNIS RADIO	TUN	010E11 36N53	500	CP	A1A	19	26	ND			0000 2359	
515.00	101	URS	PETROZAVODSK	URS	034E19 61N48	200	CO	F1B	0	7	ND			0000 2359	
515.00	101	URS	TALLIN	URS	024E46 59N24	200	CP	F1B	0	7	ND			0000 2359	
515.00	101	URS	TALLIN	URS	024E46 59N24	200	CP	F1B	0	7	ND			0000 2359	
515.00	101	URS	TEMRIUK	URS	037E24 45N17	350	OT	A1A	12	19	ND			0000 2359	
515.50	102	CPV	S VICENTE	CPV	025W00 16N51	500	CO	A1A	39	46	ND			0000 2359	
515.50	102	E	CABO PALOS	E	000N42 37N38	500	CP	A1A	19	26	ND			0000 2359	
515.50	102	EGY	TOR RADIO	EGY	033E35 28N15	500	CP	A1A	39	46	ND			0000 2359	
515.50	102	FNL	HELSINKI	FNL	025E54 60N29	200	CP	F1B	0	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
515.50	102	G	CULLERCOATS RADIO	G	001W28 55N04	320	CP	A1A	11	18	ND			0000 2359	
515.50	102	GRC	LIMNOS	GRC	025E11 39N54	370	CP	A1A	13	20	ND			0000 2359	
515.50	102	KWT	RAS ALZOOR	KWT	048E56 28N28	500	CP	F1B	34	41	ND			0300 2100	
515.50	102	POL	SZCZECIN	POL	014E35 53N28	500	CP	A1A	19	26	ND			0000 2359	
515.50	102	TUN	BIZERTE RADIO	TUN	009E53 37N16	100	CP	F1B	-7	0	ND			0600 1900	
515.50	102	URS	KERTCH	UKR	036E28 45N22	350	CO	F1B	7	14	ND			0000 2359	
515.50	102	YUG	ZADAR	YUG	015E14 44N07	250	CP	A1A	7	14	ND			0000 2359	
516.00	103	ALG	ANNABA RADIO	ALG	007E45 36N54	500	CP	A1A	19	26	ND			0000 2359	
516.00	103	ARS	DAMMAMRADIO	ARS	050E06 26N26	500	CP	F1B	34	41	ND			0000 2359	
516.00	103	ARS	JEDDAHRADIO	ARS	039E10 21N23	500	CP	F1B	34	41	ND			0000 2359	
516.00	103	CPV	MINDELO	CPV	024W59 16N53	500	CP	A1A	39	46	ND			0000 2359	
516.00	103	FNL	MARIEHAMN	FNL	019E57 60N07	500	CP	F1B	14	21	ND			0000 2359	
516.00	103	HOL	DEN HELDER	HOL	004E45 52N55	500	CP	F1B	14	21	ND			0000 2359	
516.00	103	LBY	BENGHAZI	LBY	020E04 32N07	500	CP	A1A	19	26	ND			0000 2359	
516.00	103	MRC	DAKHLA	MRC	015W56 23N42	400	CP	A1A	35	42	ND			0000 2359	
516.00	103	POR	MONSANTO	POR	009W11 38N44	500	CO	A1A	19	26	ND			0000 2359	
516.00	103	URS	SEVASTOPOL	UKR	033E32 44N34	350	CO	F1B	7	14	ND			0000 2359	
516.00	103	URS	SEVASTOPOL	UKR	033E32 44N34	350	CO	F1B	7	14	ND			0000 2359	
516.00	103	YUG	BAR	YUG	019E06 42N01	300	CP	A1A	10	17	ND			0000 2359	
516.50	104	BHR	BAHRAIN	BHR	050E35 26N14	500	CO	A1A	39	46	ND			0000 2359	
516.50	104	CPV	PRAIA	CPV	023W30 14N55	100	CP	F1B	13	20	ND			1000 2000	
516.50	104	DNK	SKAGEN	DNK	010E34 57N44	350	CP	A1A	12	19	ND			0000 2359	
516.50	104	DNK	TORSHAVN	DNK	006W47 62N01	400	CP	F1B	10	17	ND			0000 2359	
516.50	104	E	CARTAGENA	E	000W58 37N36	500	CO	A1A	19	26	ND			0000 2359	
516.50	104	F	S DENIS	REU	055E36 20S54	500	CP	F1B	34	41	ND			0000 2359	
516.50	104	G	NORTH FORELAND RADIO	G	001E25 51N22	240	CP	F1B	2	9	ND			0000 2359	
516.50	104	GRC	ASPROPYRGOS	GRC	023E35 38N02	370	CO	A1A	13	20	ND			0000 2359	
516.50	104	I	GENOVA	I	008E56 44N25	50	CP	F1B	-13	-6	ND			0000 2359	
516.50	104	ISR	HAIFA NAVAL RADIO	ISR	035E03 32N49	500	CO	F1B	14	21	ND			0000 2359	
516.50	104	MRC	AGADIR-RADIO	MRC	009W33 30N22	400	CP	A1A	15	22	ND			0000 2359	
516.50	104	URS	NOVOROSSIISK	URS	037E42 44N42	350	CP	F1B	7	14	ND			0000 2359	
516.50	104	URS	NOVOROSSIISK	URS	037E42 44N42	350	CP	F1B	7	14	ND			0000 2359	
516.50	104	YUG	ZADAR	YUG	015E14 44N07	250	CP	F1B	2	9	ND			0000 2359	
517.00	105	CPV	PRAIA	CPV	023W30 14N55	500	CP	F1B	34	41	ND			1000 2000	
517.00	105	E	CARTAGENA	E	000W58 37N36	500	CO	F1B	14	21	ND			0000 2359	
517.00	105	F	LE CONQUET	F	004W44 48N20	500	CP	F1B	14	21	ND			0000 2359	
517.00	105	G	WICK RADIO	G	003W06 58N26	320	CP	A1A	11	18	ND			0000 2359	
517.00	105	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	F1B	8	15	ND			0000 2359	
517.00	105	I	LA SPEZIA	I	009E43 44N06	380	CO	F1B	9	16	ND			0000 2359	
517.00	105	I	MOLFETTA	I	016E36 41N12	80	CV	A1A	-4	3	ND			0800 1700	



1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
517.00	105	IRQ	BASRAH	IRQ	047E47 30N33	200	CR	F1B	0	7	ND			0000 2359	
517.00	105	ISL	REYKJAVIK RADIO	ISL	021W51 64N05	500	CP	F1B	14	21	ND			0000 2359	
517.00	105	LBY	TRIPOLI RADIO	LBY	013E11 32N54	250	CV	A1A	7	14	ND			0000 2359	
517.00	105	MDG	TOAMASINA	MDG	049E24 18S08	500	CP	F1B	34	41	ND			0000 2359	
517.00	105	TUN	C BLANC	TUN	009E50 37N20	100	CO	A1A	-2	5	ND			0000 2359	
517.00	105	URS	NIKOLAEV	UKR	032E00 46N57	100	CO	F1B	-7	0	ND			0000 2359	
517.00	105	URS	NIKOLAEV	UKR	032E00 46N57	100	CO	F1B	-7	0	ND			0000 2359	
517.00	105	URS	TARAN	URS	019E59 54N58	350	CO	F1B	7	14	ND			0000 2359	
517.00	105	URS	TARAN	URS	019E59 54N58	350	CO	A1A	12	19	ND			0000 2359	
517.00	105	URS	TEMRIUK	URS	037E24 45N17	200	CO	F1B	0	7	ND			0000 2359	
517.00	105	URS	TEMRIUK	URS	037E24 45N17	200	CO	F1B	0	7	ND			0000 2359	
519.00	106	ALG	ANNABA RADIO	ALG	007E45 36N54	500	CP	F1B	14	21	ND			0000 2359	
519.00	106	ARS	DAMMAMRADIO	ARS	050E06 26N26	500	CP	F1B	34	41	ND			0000 2359	
519.00	106	E	CADIZ	E	006W16 36N30	500	CP	F1B	14	21	ND			0000 2359	
519.00	106	E	LAS PALMAS	E	015W36 27N45	500	CP	F1B	34	41	ND			0000 2359	
519.00	106	GRC	ATHINAI	GRC	023E53 38N00	370	CP	F1B	8	15	ND			0000 2359	
519.00	106	MAU	MAURITIUS RADIO	MAU	057E30 20S20	100	CP	F1B	13	20	ND			0000 2359	
519.00	106	NOR	HARSTAD	NOR	018E57 69N39	370	CO	A1A	13	20	ND			0000 2359	
519.00	106	NOR	SVALBARD	NOR	013E38 78N04	370	CP	A1A	13	20	ND			0000 2359	
519.00	106	S	STOCKHOLM RADIO	S	018E43 59N17	500	CP	A1A	19	26	ND			0000 2359	
519.00	106	URS	OTCHAKOV	UKR	031E30 46N37	200	CP	F1B	0	7	ND			0000 2359	
519.00	106	URS	OTCHAKOV	UKR	031E30 46N37	200	CP	F1B	0	7	ND			0000 2359	
519.00	106	URS	ARKHANGHELSK	URS	040E37 64N36	500	CO	F1B	14	21	ND			0000 2359	
519.00	106	URS	ARKHANGHELSK	URS	040E37 64N36	500	CO	A1A	19	26	ND			0000 2359	
519.00	106	URS	TAGANROG	URS	038E53 47N13	200	CO	F1B	0	7	ND			0000 2359	
519.00	106	URS	TAGANROG	URS	038E53 47N13	200	CO	F1B	0	7	ND			0000 2359	
519.00	106	YUG	SPLIT	YUG	016E29 43N30	300	CP	F1B	5	12	ND			0000 2359	
519.50	107	ALB	VLORE PT RADIO	ALB	019E29 40N27	350	CP	F1B	7	14	ND			0000 2359	
519.50	107	BUL	VARNA RADIO	BUL	027E46 43N04	200	CO	F1B	0	7	ND			0000 2359	
519.50	107	D	KIEL RADIO	D	010E08 54N26	500	CP	F1B	14	21	ND			0000 2359	
519.50	107	E	TARIFA RADIO	E	005W33 36N03	500	CP	F1B	14	21	ND			0000 2359	
519.50	107	F	MARSEILLE	F	005E21 43N19	500	CP	F1B	14	21	ND			0000 2359	
519.50	107	G	PORTPATRICK RADIO	G	005W07 54N51	240	CP	F1B	2	9	ND			0000 2359	
519.50	107	MLT	XLOKK RADIO	MLT	014E32 35N49	100	CP	F1B	-7	0	ND			0000 2359	
519.50	107	POR	LAJES	AZR	027W06 38N46	500	CO	F1B	14	21	ND			0000 2359	
519.50	107	POR	MADEIRA	MDR	016W50 32N38	400	CP	F1B	10	17	ND			0000 2359	
519.50	107	URS	JDANOV	UKR	037E31 47N08	350	CP	F1B	7	14	ND			0000 2359	
519.50	107	URS	JDANOV	UKR	037E31 47N08	350	CP	F1B	7	14	ND			0000 2359	
519.50	107	URS	ASTRAKHAN	URS	047E42 46N55	200	CO	F1B	0	7	ND			0000 2359	
519.50	107	URS	LENINGRAD	URS	030E21 59N59	350	CP	F1B	7	14	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
519.50	107	URS	LENINGRAD	URS	030E21 59N59	350	CP	F1B	7	14	ND			0000 2359	
519.50	107	URS	MURMANSK	URS	033E10 68N58	350	CO	F1B	7	14	ND			0000 2359	
519.50	107	URS	NARIAN-MAR	URS	053E00 67N39	200	CP	F1B	0	7	ND			0000 2359	
520.00	108	ALB	DURRES PT RADIO	ALB	019E26 41N27	200	CP	F1B	0	7	ND			0000 2359	
520.00	108	ALG	ORAN RADIO	ALG	000W08 35N46	200	CP	F1B	0	7	ND			0000 2359	
520.00	108	D	NORDDEICH RADIO	D	007E12 53N38	200	CP	F1B	0	7	ND			0000 2359	
520.00	108	FNL	MARIEHAMN	FNL	019E57 60N07	500	CP	A1A	19	26	ND			0000 2359	
520.00	108	I	CAGLIARI	I	009E07 39N15	500	CP	F1B	14	21	ND			0000 2359	
520.00	108	I	TRIESTE	I	013E46 45N40	100	CP	F1B	-7	0	ND			0000 2359	
520.00	108	IRL	VALENTIA	IRL	010W21 51N56	500	CP	F1B	14	21	ND			0000 2359	
520.00	108	KWT	AHMADI	KWT	048E04 29N06	500	CV	A1A	39	46	ND			0400 1900	
520.00	108	POR	LISBOA	POR	009W14 38N44	400	CP	F1B	10	17	ND			0000 2359	
520.00	108	TUR	ISTANBUL	TUR	028E56 41N04	200	CP	F1B	0	7	ND			0000 2359	
520.00	108	URS	IALTA	UKR	034E10 44N39	200	CO	F1B	0	7	ND			0000 2359	
520.00	108	URS	IALTA	UKR	034E10 44N39	200	CO	F1B	0	7	ND			0000 2359	
520.00	108	URS	BELOMORSK	URS	034E41 64N36	200	OT	F1B	0	7	ND			0000 2359	
520.00	108	URS	BELOMORSK	URS	034E41 64N36	200	OT	A1A	5	12	ND			0000 2359	
520.50	109	ALG	TENES RADIO	ALG	001E18 36N32	500	CP	F1B	14	21	ND			0000 2359	
520.50	109	DDR	RUEGEN	DDR	013E37 54N35	500	CP	F1B	14	21	ND			0000 2359	
520.50	109	EGY	ISMAILIA	EGY	032E16 30N35	500	CV	A1A	19	26	ND			0000 2359	
520.50	109	F	LE CONQUET	F	004W44 48N20	500	CP	F1B	14	21	ND			0000 2359	
520.50	109	I	NAPOLI	I	014E14 40N50	500	CP	F1B	14	21	ND			0000 2359	
520.50	109	KWT	SHOWAIKH	KWT	047E59 29N23	500	CP	A1A	39	46	ND			0400 1900	
520.50	109	LBY	BENGHAZI PORT	LBY	020E04 32N03	300	CV	A1A	10	17	ND			0000 2359	
520.50	109	ROU	CONSTANTA	ROU	028E37 44N06	500	CP	F1B	14	21	ND			0000 2359	
521.00	110	ALB	VLORE PT RADIO	ALB	019E29 40N27	350	CP	F1B	7	14	ND			0000 2359	
521.00	110	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	500	CP	F1B	14	21	ND			0000 2359	
521.00	110	F	BOULOGNE	F	001E38 50N43	500	CP	F1B	14	21	ND			0000 2359	
521.00	110	I	TRIESTE	I	013E46 45N40	200	CP	F1B	0	7	ND			0000 2359	
521.00	110	POL	GDYNIA	POL	018E32 54N32	500	CP	F1B	14	21	ND			0000 2359	
521.00	110	TUN	BIZERTE RADIO	TUN	009E53 37N16	300	CP	F1B	5	12	ND			0600 1900	
521.00	110	URS	ODESSA	UKR	030E45 46N29	350	CP	F1B	7	14	ND			0000 2359	
521.00	110	URS	ODESSA	UKR	030E45 46N29	350	CP	F1B	7	14	ND			0000 2359	
521.00	110	URS	NARIAN-MAR	URS	053E00 67N39	200	CO	F1B	0	7	ND			0000 2359	
521.00	110	URS	NARIAN-MAR	URS	053E00 67N39	200	CO	A1A	5	12	ND			0000 2359	
521.00	110	URS	PERTOMINSK	URS	038E27 64N48	200	CO	A1A	5	12	ND			0000 2359	
521.00	110	URS	VYBORG	URS	028E46 60N42	200	CO	F1B	0	7	ND			0000 2359	
521.00	110	URS	VYBORG	URS	028E46 60N42	200	CO	F1B	0	7	ND			0000 2359	
521.50	111	ALG	ORAN RADIO	ALG	000W08 35N46	500	CP	F1B	14	21	ND			0000 2359	
521.50	111	BUL	BOURGAS RADIO	BUL	027E29 42N30	500	CO	F1B	14	21	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
521.50	111	EGY	ALEXANDRIA RADIO	EGY	029E51 31N11	500	CP	F1B	14	21	ND			0000 2359	
521.50	111	F	BREST	F	004W19 48N26	500	CO	F1B	14	21	ND			0000 2359	
521.50	111	I	ROMA	I	012E31 41N48	500	CP	F1B	14	21	ND			0000 2359	
521.50	111	NOR	BODOE	NOR	014E23 67N16	370	CP	F1B	8	15	ND			0000 2359	
521.50	111	OMA	MUSCAT	OMA	058E30 23N37	400	CP	F1B	30	37	ND			0000 2359	
521.50	111	S	GOETEBORG RADIO	S	011E56 57N28	500	CP	F1B	14	21	ND			0000 2359	
521.50	111	URS	JDANOV	UKR	037E31 47N08	200	CP	F1B	0	7	ND			0000 2359	
521.50	111	URS	JDANOV	UKR	037E31 47N08	200	CP	F1B	0	7	ND			0000 2359	
521.50	111	URS	MEZEN	URS	044E17 65N51	200	CO	F1B	0	7	ND			0000 2359	
521.50	111	URS	MEZEN	URS	044E17 65N51	200	CO	A1A	5	12	ND			0000 2359	
521.50	111	URS	MURMANSK	URS	033E10 68N58	100	OT	F1B	-7	0	ND			0000 2359	
521.50	111	URS	MURMANSK	URS	033E10 68N58	100	OT	F1B	-7	0	ND			0000 2359	
522.00	112	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	500	CP	F1B	14	21	ND			0000 2359	
522.00	112	ARS	RAS TANURA RADIO	ARS	050E07 26N18	500	CV	F1B	34	41	ND			0000 2359	
522.00	112	BUL	BOURGAS RADIO	BUL	027E29 42N30	500	CO	F1B	14	21	ND			0000 2359	
522.00	112	I	GENOVA	I	008E56 44N25	100	CP	F1B	-7	0	ND			0000 2359	
522.00	112	I	MAZARA VALLO	I	012E34 37N38	500	CP	F1B	14	21	ND			0000 2359	
522.00	112	IRL	HAULBOWLINE	IRL	008W18 51N50	500	CO	F1B	14	21	ND			0000 2359	
522.00	112	S	STOCKHOLM RADIO	S	014E19 55N29	500	CP	F1B	14	21	ND			0000 2359	
522.00	112	URS	MURMANSK	URS	033E10 68N58	500	CO	A1A	19	26	ND			0000 2359	
522.00	112	URS	MURMANSK	URS	033E10 68N58	500	CO	F1B	14	21	ND			0000 2359	
522.00	112	URS	NOVOROSSIISK	URS	037E42 44N42	100	CP	F1B	-7	0	ND			0000 2359	
522.00	112	URS	NOVOROSSIISK	URS	037E42 44N42	100	CP	F1B	-7	0	ND			0000 2359	
522.50	113	ALG	ALGER RADIO	ALG	003E18 36N40	500	CP	F1B	14	21	ND			0000 2359	
522.50	113	E	FERROL	E	008W16 43N28	500	CO	F1B	14	21	ND			0000 2359	
522.50	113	HOL	SCHEVENINGEN	HOL	004E15 52N06	500	CP	F1B	14	21	ND			0000 2359	
522.50	113	I	BARI	I	017E25 40N26	500	CP	F1B	14	21	ND			0000 2359	
522.50	113	LBY	TOBRUK	LBY	023E59 32N02	400	CV	F1B	10	17	ND			0000 2359	
522.50	113	S	TINGSTAEDE RADIO	S	018E36 57N44	400	CP	F1B	10	17	ND			0000 2359	
522.50	113	URS	IZMAIL	UKR	028E51 45N20	350	CO	F1B	7	14	ND			0000 2359	
522.50	113	URS	IZMAIL	UKR	028E51 45N20	350	CO	F1B	7	14	ND			0000 2359	
522.50	113	URS	JDANOV	UKR	037E31 47N08	100	CP	F1B	-7	0	ND			0000 2359	
522.50	113	URS	ARKHANGHELSK	URS	040E37 64N36	350	CP	F1B	7	14	ND			0000 2359	
522.50	113	URS	ARKHANGHELSK	URS	040E37 64N36	350	CP	F1B	7	14	ND			0000 2359	
523.00	114	ARS	DAMMAMRADIO	ARS	050E06 26N26	500	CP	F1B	34	41	ND			0000 2359	
523.00	114	D	NORDDEICH RADIO	D	007E12 53N38	500	CP	F1B	14	21	ND			0000 2359	
523.00	114	E	CABO DE LA NAO RADIO	E	000E11 38N43	500	CP	F1B	14	21	ND			0000 2359	
523.00	114	I	ANCONA	I	013E28 43N36	500	CP	F1B	14	21	ND			0000 2359	
523.00	114	POR	LISBOA	POR	009W14 38N44	100	CP	F1B	-7	0	ND			0000 2359	
523.00	114	ROU	AGIGEA	ROU	028E39 44N06	500	CP	F1B	14	21	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
523.00	114	S	HAERNOESAND RADIO	S	021E36 64N28	500	CP	F1B	14	21	ND			0000 2359	
523.00	114	TUN	SFAX RADIO	TUN	010E44 34N44	300	CP	F1B	5	12	ND			0600 2359	
523.00	114	TUR	MERSIN	TUR	034E36 36N49	250	CP	F1B	2	9	ND			0000 2359	
523.00	114	URS	ARKHANGHELSK	URS	040E37 64N36	200	CP	F1B	0	7	ND			0000 2359	
523.00	114	URS	BAKU	URS	049E45 40N20	100	CO	F1B	-7	0	ND			0000 2359	
523.00	114	URS	BAKU	URS	049E45 40N20	100	CO	F1B	-7	0	ND			0000 2359	
523.00	114	URS	BATUMI	URS	041E19 41N39	350	CP	F1B	7	14	ND			0000 2359	
523.00	114	URS	BATUMI	URS	041E19 41N39	350	CP	F1B	7	14	ND			0000 2359	
523.00	114	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CO	F1B	0	7	ND			0000 2359	
523.00	114	URS	FORT SHEVTCHENKO	URS	050E18 44N30	200	CO	F1B	0	7	ND			0000 2359	
523.00	114	URS	KLAIPEDA	URS	021E12 55N46	200	CP	F1B	0	7	ND			0000 2359	
523.00	114	URS	KLAIPEDA	URS	021E12 55N46	200	CP	F1B	0	7	ND			0000 2359	
523.50	115	ALG	TENES RADIO	ALG	001E18 36N32	500	CP	F1B	14	21	ND			0000 2359	
523.50	115	BUL	VARNA RADIO	BUL	027E46 43N04	500	CO	F1B	14	21	ND			0000 2359	
523.50	115	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	F1B	7	14	ND			0000 2359	
523.50	115	FNL	HELSINKI	FNL	025E54 60N29	500	CP	F1B	14	21	ND			0000 2359	
523.50	115	I	AUGUSTA	I	015E13 37N13	500	CP	F1B	14	21	ND			0000 2359	
523.50	115	I	TRIESTE	I	013E46 45N40	250	CP	F1B	2	9	ND			0000 2359	
523.50	115	IRL	VALENTIA	IRL	010W21 51N56	500	CP	F1B	14	21	ND			0000 2359	
523.50	115	IRQ	BASRAH	IRQ	047E47 30N33	100	CV	F1B	-7	0	ND			0000 2359	
523.50	115	ISR	HAIFA RADIO	ISR	035E00 32N48	500	CP	F1B	14	21	ND			0000 2359	
523.50	115	NOR	HARSTAD	NOR	018E57 69N39	370	CP	F1B	8	15	ND			0000 2359	
523.50	115	URS	ASTRAKNAN	URS	047E42 46N55	350	CP	F1B	7	14	ND			0000 2359	
523.50	115	URS	ASTRAKHAN	URS	047E42 46N55	350	CP	F1B	7	14	ND			0000 2359	
523.50	115	URS	BAKU	URS	049E45 40N20	200	CO	F1B	0	7	ND			0000 2359	
523.50	115	URS	BAKU	URS	049E45 40N20	200	CP	F1B	0	7	ND			0000 2359	
523.50	115	URS	TUAPSE	URS	039E05 44N01	200	CO	F1B	0	7	ND			0000 2359	
523.50	115	URS	TUAPSE	URS	039E05 44N01	200	CO	F1B	0	7	ND			0000 2359	
524.00	116	ALG	ALGER RADIO	ALG	003E18 36N40	500	CP	F1B	14	21	ND			0000 2359	
524.00	116	E	FINISTERRE RADIO	E	009W16 42N54	500	CP	F1B	14	21	ND			0000 2359	
524.00	116	EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	500	CP	F1B	14	21	ND			0000 2359	
524.00	116	I	GENOVA	I	008E56 44N25	250	CP	F1B	2	9	ND			0000 2359	
524.00	116	I	TARANTO	I	017E25 40N26	380	CO	F1B	9	16	ND			0000 2359	
524.00	116	NOR	KRISTIANSAND S	NOR	007E59 58N03	370	CO	F1B	8	15	ND			0000 2359	
524.00	116	TUR	ISTANBUL	TUR	028E56 41N04	400	CP	F1B	10	17	ND			0000 2359	
524.00	116	URS	BERDIANSK	UKR	036E43 46N47	200	CP	F1B	0	7	ND			0000 2359	
524.00	116	URS	BERDIANSK	UKR	036E48 46N47	200	CP	F1B	0	7	ND			0000 2359	
524.00	116	URS	RIGA	URS	024E05 56N57	350	CO	F1B	7	14	ND			0000 2359	
524.00	116	URS	RIGA	URS	024E05 56N57	350	CO	F1B	7	14	ND			0000 2359	
524.50	117	E	TARIFA RADIO	E	005W33 36N03	500	CP	F1B	14	21	ND			0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting coast station name
5	Symbol of the country or geographical area in which the station is located
6	Longitud and latitude of the transmitting station
7	Service range (km)
8	Nature of service
9	Class of emission
10A	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)
10B	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)
11A	Antenna characteristics: Azimuth of maximum radiation (degrees)
11B	Antenna characteristics: Maximum antenna gain (dB)
11C	Antenna characteristics: Angular width of the main lobe (degrees)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
524.50	117	FNL	VAASA	FNL	021E09 63N19	500	CP	F1B	14	21	ND			0000 2359	
524.50	117	GRC	HERAKLION	GRC	025E45 35N19	370	CP	F1B	8	15	ND			0000 2359	
524.50	117	I	TRIESTE	I	013E46 45N40	500	CP	F1B	14	21	ND			0000 2359	
524.50	117	KEN	MOMBASA RADIO	KEN	039E44 03S58	500	CP	A1A	39	46	ND			0000 2359	
524.50	117	KWT	HUBAN	KWT	047E41 29N31	500	CP	A1A	39	46	ND			0000 2359	
524.50	117	POL	WITOWO	POL	016E32 54N33	300	CP	F1B	5	12	ND			0000 2359	
524.50	117	POR	HORTA	AZR	028W38 38N32	500	CO	F1B	14	21	ND			0000 2359	
524.50	117	POR	MADEIRA	MDR	016W50 32N38	400	CP	F1B	10	17	ND			0000 2359	
524.50	117	ROU	SULINA	ROU	029E39 45N09	500	CP	F1B	14	21	ND			0000 2359	
524.50	117	TUN	KELIBIA RADIO	TUN	011E05 36N50	200	CP	F1B	0	7	ND			0600 1900	
525.00	118	D	NORDDEICH RADIO	D	007E12 53N38	500	CP	F1B	14	21	ND			0000 2359	
525.00	118	FNL	HELSINKI	FNL	025E54 60N29	500	CP	F1B	14	21	ND			0000 2359	
525.00	118	GRC	KERKYRA	GRC	019E54 39N37	370	CP	F1B	8	15	ND			0000 2359	
525.00	118	JOR	AQABA RADIO	JOR	034E59 29N33	500	CP	F1B	34	41	ND			0000 2359	
525.00	118	KEN	MOMBASA RADIO	KEN	039E44 03S58	100	CP	F1B	13	20	ND			0000 2359	
525.00	118	MOZ	PEMBA RADIONAVAL	MOZ	040E29 12S58	500	CO	A1A	39	46	ND			0000 2359	
525.00	118	NOR	HARSTAD	NOR	018E57 69N39	370	CO	F1B	8	15	ND			0000 2359	
525.00	118	POR	MONSANTO	POR	009W11 38N44	500	CO	F1B	14	21	ND			0000 2359	
525.00	118	TUN	TABARKA RADIO	TUN	008E45 36N57	400	CP	F1B	10	17	ND			0600 1900	
525.00	118	URS	IALTA	UKR	034E10 44N39	350	CP	F1B	7	14	ND			0000 2359	
525.00	118	URS	IALTA	UKR	034E10 44N39	350	CP	F1B	7	14	ND			0000 2359	
525.00	118	YUG	KOPER	YUG	013E44 45N33	250	CP	F1B	2	9	ND			0000 2359	
525.50	119	ALG	BEJAIA RADIO	ALG	005E05 36N45	100	CP	F1B	-7	0	ND			0000 2359	
525.50	119	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	100	CP	F1B	-7	0	ND			0000 2359	
525.50	119	ALG	TENES RADIO	ALG	001E18 36N32	100	CP	F1B	-7	0	ND			0000 2359	
525.50	119	DDR	RUEGEN	DDR	013E37 54N35	350	CP	F1B	7	14	ND			0000 2359	
525.50	119	F	S DENIS	REU	055E36 20S54	500	CP	F1B	34	41	ND			0000 2359	
525.50	119	KWT	RAS LA KHAFJI	KWT	048E56 28N28	500	CV	A1A	39	46	ND			0500 1600	
525.50	119	MDG	MAINTIRANO	MDG	044E01 18S03	350	CP	A1A	32	39	ND			0000 2359	
525.50	119	MLT	XLOKK RADIO	MLT	014E32 35N49	500	CP	F1B	14	21	ND			0000 2359	
525.50	119	TUR	IZMIR	TUR	027E10 38N24	250	CP	F1B	2	9	ND			0000 2359	
525.50	119	URS	IZMAIL	UKR	028E51 45N20	350	CP	F1B	7	14	ND			0000 2359	
525.50	119	URS	IZMAIL	UKR	028E51 45N20	350	CP	F1B	7	14	ND			0000 2359	
525.50	119	URS	NOVOROSSIISK	URS	037E42 44N42	100	CO	F1B	-7	0	ND			0000 2359	
525.50	119	URS	NOVOROSSIISK	URS	037E42 44N42	100	CO	F1B	-7	0	ND			0000 2359	
525.50	119	YUG	RIJEKA	YUG	014E33 45N07	300	CP	F1B	5	12	ND			0000 2359	
526.00	120	ALG	ALGER RADIO	ALG	003E18 36N40	100	CP	F1B	-7	0	ND			0000 2359	
526.00	120	ALG	ANNABA RADIO	ALG	007E45 36N54	100	CP	F1B	-7	0	ND			0000 2359	
526.00	120	DDR	RUEGEN	DDR	013E37 54N35	100	CP	F1B	-7	0	ND			0000 2359	
526.00	120	GRC	KERKYRA	GRC	019E54 39N37	220	CP	F1B	1	8	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
526.00	120	I	ROMA	I	012E31 41N48	250	CP	F1B	2	9	ND			0000 2359	
526.00	120	MLT	MALTA RADIO	MLT	014E24 35N52	200	CP	F1B	0	7	ND			0000 2359	
526.00	120	URS	IALTA	UKR	034E10 44N39	100	CO	F1B	-7	0	ND			0000 2359	
526.00	120	URS	IALTA	UKR	034E10 44N39	100	CO	A1A	-2	5	ND			0000 2359	
526.00	120	URS	ODESSA	UKR	030E45 46N29	100	OT	A1A	-2	5	ND			0000 2359	
526.00	120	URS	KALININGRAD	URS	020E30 54N45	100	CO	F1B	-7	0	ND			0000 2359	
526.00	120	URS	KALININGRAD	URS	020E30 54N45	100	CO	A1A	-2	5	ND			0000 2359	
1607.00	201	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	F1B	7	11	ND			0000 2359	
1607.00	201	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1607.00	201	COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	F1B	27	31	ND			0000 2359	
1607.00	201	DDR	RUEGEN	DDR	013E37 54N35	100	CP	F1B	-15	-11	ND			0000 2359	
1607.00	201	E	FINISTERRE RADIO	E	009W16 42N54	400	CP	F1B	7	11	ND			0000 2359	
1607.00	201	F	MARSEILLE	F	005E21 43N19	400	CP	F1B	7	11	ND			0000 2359	
1607.00	201	FNL	MARIEHAMN	FNL	019E57 60N07	400	CP	F1B	7	11	ND			0000 2359	
1607.00	201	G	ASCENSION	ASC	014W25 07S56	320	CP	F1B	21	25	ND			0000 2359	
1607.00	201	HOL	OUDDORP	HOL	003E53 51N48	400	CP	F1B	7	11	ND			0000 2359	
1607.00	201	I	CROTONE RADIO	I	017E08 39N03	400	CP	F1B	7	11	ND			0000 2359	
1607.00	201	NOR	VARDOE	NOR	031E05 70N22	370	CP	F1B	5	9	ND			0000 2359	
1607.00	201	URS	ARKHANGHELSK	URS	040E37 64N36	250	CP	F1B	-4	0	ND			0000 2359	
1607.50	202	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	F1B	20	24	ND			0000 2359	
1607.50	202	D	BAD BRAMSTEDT	D	009E56 53N56	320	CO	F1B	1	5	ND			0000 2359	
1607.50	202	FNL	MARIEHAMN	FNL	019E57 60N07	400	CP	F1B	7	11	ND			0000 2359	
1607.50	202	G	MILLTOWN	G	003W14 57N40	270	CO	F1B	-2	2	ND			0000 2359	
1607.50	202	G	ST EVAL	G	005W00 50N28	270	CO	F1B	-2	2	ND			0000 2359	
1607.50	202	I	CAGLIARI	I	009E07 39N15	400	CP	F1B	7	11	ND			0000 2359	
1607.50	202	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	F1B	7	11	ND			0000 2359	
1607.50	202	TUR	ANTALYA	TUR	030E42 36N53	250	CP	F1B	-4	0	ND			0000 2359	
1607.50	202	URS	JDANOV	UKR	037E31 47N08	400	CP	F1B	7	11	ND			0000 2359	
1607.50	202	YUG	BAR	YUG	019E06 42N01	300	CP	F1B	0	4	ND			0000 2359	
1608.00	203	ALB	DURRES PT RADIO	ALB	019E26 41N27	200	CP	F1B	-7	-3	ND			0000 2359	
1608.00	203	BHR	BAHRAIN	BHR	050E28 26N09	400	CP	F1B	27	31	ND			0000 2359	
1608.00	203	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	F1B	13	17	ND			0000 2359	
1608.00	203	F	DZAOUDZI	MYT	045E17 12S48	400	CP	F1B	27	31	ND			0000 2359	
1608.00	203	F	S DENIS	REU	055E36 20S53	400	CP	F1B	27	31	ND			0000 2359	
1608.00	203	HOL	SCHEVENINGEN	HOL	004E15 52N06	400	CP	F1B	7	11	ND			0000 2359	
1608.00	203	KEN	MOMBASA RADIO	KEN	039E34 03S58	400	CP	F1B	27	31	ND			0000 2359	
1608.00	203	OMA	SALALAH	OMA	054E06 17N01	400	CR	F1B	27	31	ND			0000 2359	
1608.00	203	TUN	TUNIS RADIO	TUN	010E11 36N53	400	CP	F1B	7	11	ND			0000 2359	
1608.00	203	TUR	SAMSUN	TUR	036E20 41N17	250	CP	F1B	-4	0	ND			0000 2359	
1608.00	203	URS	ASTRAKHAN	URS	047E42 46N55	400	CP	F1B	7	11	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1608.00	203	URS	RIGA	URS	024E05 56N57	400	CP	F1B	7	11	ND			0000 2359	
1608.00	203	YUG	KOPER	YUG	013E44 45N33	300	CP	F1B	0	4	ND			0000 2359	
1608.50	204	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	F1B	7	11	ND			0000 2359	
1608.50	204	COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	F1B	27	31	ND			0000 2359	
1608.50	204	G	MILLTOWN	G	003W14 57N40	270	CO	F1B	-2	2	ND			0000 2359	
1608.50	204	GRC	MOURNIES KRITIS	GRC	024E01 35N29	370	CO	F1B	5	9	ND			0000 2359	
1608.50	204	I	PALERMO RADIO	I	013E22 38N07	400	CP	F1B	7	11	ND			0000 2359	
1608.50	204	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	F1B	7	11	ND			0000 2359	
1608.50	204	OMA	MUSCAT	OMA	058E30 23N37	400	CR	F1B	27	31	ND			0000 2359	
1608.50	204	POL	SWARZEWO	POL	018E24 54N46	400	OT	F1B	7	11	ND			0000 2359	
1609.00	205	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1609.00	205	COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	F1B	27	31	ND			0000 2359	
1609.00	205	G	NORTH FORELAND RADIO	G	001E25 51N22	240	CP	F1B	-4	0	ND			0000 2359	
1609.00	205	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	F1B	5	9	ND			0000 2359	
1609.00	205	I	TRAPANI RADIO	I	012E30 38N01	400	CP	F1B	7	11	ND			0000 2359	
1609.00	205	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	F1B	-4	0	ND			0000 2359	
1609.00	205	TUR	ZONGULDAV	TUR	031E48 41N27	250	CP	F1B	-4	0	ND			0000 2359	
1609.00	205	URS	LIEPAIA	URS	021E00 56N32	400	CO	F1B	7	11	ND			0000 2359	
1609.50	206	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	F1B	7	11	ND			0000 2359	
1609.50	206	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	300	CP	F1B	0	4	ND			0000 2359	
1609.50	206	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	F1B	20	24	ND			0000 2359	
1609.50	206	G	PORTPATRICK RADIO	G	005W07 54N51	240	CP	F1B	-4	0	ND			0000 2359	
1609.50	206	I	TARANTO	I	017E25 40N26	400	CO	F1B	7	11	ND			0000 2359	
1609.50	206	NOR	ROGALAND	NOR	005E34 58N48	370	CP	F1B	5	9	ND			0000 2359	
1609.50	206	POL	SOBIESZEWO	POL	018E51 54N21	400	OT	F1B	7	11	ND			0000 2359	
1609.50	206	ROU	MANGALIA	ROU	028E35 43N48	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	F1B	13	17	ND			0000 2359	
1610.00	207	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	F1B	3	7	ND			0000 2359	
1610.00	207	E	TARIFA RADIO	E	005W33 36N03	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	FNL	VAASA	FNL	021E09 63N19	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	I	MESSINA RADIO	I	015E33 38N11	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	F1B	7	11	ND			0000 2359	
1610.00	207	ISR	HAIFA RADIO	ISR	035E00 32N48	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	S	STOCKHOLM RADIO	S	014E19 55N29	400	CP	F1B	7	11	ND			0000 2359	
1610.00	207	URS	ASTRAKHAN	URS	047E42 46N55	400	CO	F1B	7	11	ND			0000 2359	
1610.50	208	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	F1B	7	11	ND			0000 2359	
1610.50	208	F	MARSEILLE	F	005E21 43N19	400	CP	F1B	7	11	ND			0000 2359	
1610.50	208	HOL	DEN HELDER	HOL	004E45 52N55	400	CP	F1B	7	11	ND			0000 2359	
1610.50	208	I	BARI RADIO	I	016E59 41N05	400	CP	F1B	7	11	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1610.50	208	POL	SUCHACZ	POL	019E28 54N17	400	OT	F1B	7	11	ND			0000 2359	
1610.50	208	S	HAERNOESAND RADIO	S	018E08 62N43	400	CP	F1B	7	11	ND			0000 2359	
1610.50	208	TUR	IZMIR	TUR	027E10 38N24	250	CP	F1B	-4	0	ND			0000 2359	
1610.50	208	TUR	MERSIN	TUR	034E36 36N49	250	CP	F1B	-4	0	ND			0000 2359	
1610.50	208	TUR	TRABZON	TUR	039E43 41N00	250	CP	F1B	-4	0	ND			0000 2359	
1610.50	208	URS	MAKHATCHKALA	URS	047E30 42N59	200	CO	F1B	-7	-3	ND			0000 2359	
1611.00	209	D	WILHELMSHAVEN	D	007E37 53N41	400	CO	F1B	7	11	ND			0000 2359	
1611.00	209	F	QUIMPERLE	F	003W30 47N52	400	CP	F1B	7	11	ND			0000 2359	
1611.00	209	G	CLYDE (TOWARD)	G	004W59 55N52	270	CO	F1B	-2	2	ND			0000 2359	
1611.00	209	MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	F1B	7	11	ND			0000 2359	
1611.00	209	NOR	HAMMERFEST	NOR	023E41 70N41	370	CP	F1B	5	9	ND			0000 2359	
1611.00	209	NOR	OERLANDET	NOR	009E36 63N41	370	CP	F1B	5	9	ND			0000 2359	
1611.00	209	URS	VENTSPILS	URS	021E32 57N24	400	CP	F1B	7	11	ND			0000 2359	
1611.00	209	YUG	SPLIT	YUG	016E29 43N30	300	CP	F1B	0	4	ND			0000 2359	
1611.50	210	ALG	TENES RADIO	ALG	001E18 36N32	300	CP	F1B	0	4	ND			0000 2359	
1611.50	210	D	NORDDEICH RADIO	D	007E12 53N38	100	CP	F1B	-15	-11	ND			0000 2359	
1611.50	210	G	LANDS END RADIO	G	005W40 50N07	320	CP	F1B	1	5	ND			0000 2359	
1611.50	210	I	S BENEDETTO TRONTO	I	013E52 42N57	400	CP	F1B	7	11	ND			0000 2359	
1611.50	210	NOR	ROGALAND	NOR	005E34 58N48	370	CP	F1B	5	9	ND			0000 2359	
1611.50	210	POL	KRYNICA MORSKA	POL	019E26 54N23	400	OT	F1B	7	11	ND			0000 2359	
1611.50	210	POR	MONSANTO	POR	009W11 38N44	400	CO	F1B	7	11	ND			0000 2359	
1611.50	210	TUN	SFAX RADIO	TUN	010E44 34N44	400	CP	F1B	7	11	ND			0600 2359	
1611.50	210	TUR	IZMIR	TUR	027E10 38N24	250	CP	F1B	-4	0	ND			0000 2359	
1611.50	210	TUR	MERSIN	TUR	034E36 36N49	250	CP	F1B	-4	0	ND			0000 2359	
1611.50	210	URS	ODESSA	UKR	030E45 46N29	400	CP	F1B	7	11	ND			0000 2359	
1612.00	211	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	F1B	7	11	ND			0000 2359	
1612.00	211	DDR	RUEGEN	DDR	013E37 54N35	400	CP	F1B	7	11	ND			0000 2359	
1612.00	211	F	LE CONQUET	F	004W44 48N20	400	CP	F1B	7	11	ND			0000 2359	
1612.00	211	G	HEBRIDES RADIO	G	007W02 58N14	320	CP	F1B	1	5	ND			0000 2359	
1612.00	211	I	ROMA	I	012E22 41N59	400	CO	F1B	7	11	ND			0000 2359	
1612.00	211	KEN	MOMBASA RADIO	KEN	039E34 03S58	400	CP	F1B	27	31	ND			0000 2359	
1612.00	211	NOR	AALESUND	NOR	006E12 62N28	370	CP	F1B	5	9	ND			0000 2359	
1612.00	211	URS	LENINGRAD	URS	030E21 59N59	400	CO	F1B	7	11	ND			0000 2359	
1612.00	211	URS	NOVOROSSIISK	URS	037E42 44N42	400	CO	F1B	7	11	ND			0000 2359	
1612.50	212	BEL	OOSTENDE RADIO	BEL	002E48 51N11	300	CP	F1B	0	4	ND			0000 2359	
1612.50	212	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1612.50	212	DNK	SKAGEN	DNK	010E34 57N44	350	CP	F1B	3	7	ND			0000 2359	
1612.50	212	G	WICK RADIO	G	003W06 58N26	320	CP	F1B	1	5	ND			0000 2359	
1612.50	212	I	PORTO TORRES RADIO	I	008E23 40N50	400	CP	F1B	7	11	ND			0000 2359	
1612.50	212	I	TARANTO	I	017E25 40N26	200	CO	F1B	-7	-3	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
										Necessary transmitting power		Antenna characteristics			
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1612.50	212	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	F1B	-4	0	ND			0000 2359	
1612.50	212	URS	KALININGRAD	URS	020E30 54N45	200	CO	F1B	-7	-3	ND			0000 2359	
1612.50	212	URS	KLAIPEDA	URS	021E12 55N46	200	CP	F1B	-7	-3	ND			0000 2359	
1612.50	212	URS	NOVOROSSIISK	URS	037E42 44N42	400	CP	F1B	7	11	ND			0000 2359	
1613.00	213	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1613.00	213	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	F1B	3	7	ND			0000 2359	
1613.00	213	G	PORTPATRICK RADIO	G	005W07 54N51	240	CP	F1B	-4	0	ND			0000 2359	
1613.00	213	G	GIBRALTAR	GIB	005W21 36N07	320	CP	F1B	1	5	ND			0000 2359	
1613.00	213	G	ST HELENA	SHN	005W43 15S56	320	CP	F1B	21	25	ND			0000 2359	
1613.00	213	GRC	ASPROPYRGOS	GRC	023E35 38N02	370	CO	F1B	5	9	ND			0000 2359	
1613.00	213	I	MAZARA VALLO RADIO	I	012E34 37N38	400	CP	F1B	7	11	ND			0000 2359	
1613.00	213	MRC	LAAYOUNE RADIO	MRC	013W13 27N10	400	CP	F1B	27	31	ND			0000 2359	
1613.00	213	MRC	NADOR RADIO	MRC	002E56 35N10	300	CP	F1B	0	4	ND			0000 2359	
1613.00	213	ROU	SULINA	ROU	029E39 45N09	400	CP	F1B	7	11	ND			0000 2359	
1613.00	213	URS	TALLIN	URS	024E46 59N24	400	CP	F1B	7	11	ND			0000 2359	
1613.50	214	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	F1B	7	11	ND			0000 2359	
1613.50	214	BEL	BRUGGE	BEL	003E15 51N12	400	CO	F1B	7	11	ND			0000 2359	
1613.50	214	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1613.50	214	CTI	S. PEDRO PORT	CTI	006W37 04N44	200	CR	F1B	13	17	ND			0000 2359	
1613.50	214	E	FERROL	E	008W16 43N28	400	CO	F1B	7	11	ND			0000 2359	
1613.50	214	GRC	LIMNOS	GRC	025E11 39N54	370	CP	F1B	5	9	ND			0000 2359	
1613.50	214	I	ROMA RADIO	I	012E31 41N48	400	CP	F1B	7	11	ND			0000 2359	
1613.50	214	IRL	VALENTIA	IRL	010W21 51N56	400	CP	F1B	7	11	ND			0000 2359	
1613.50	214	S	AELVSBORG RADIO	S	011E30 58N30	400	CO	F1B	7	11	ND			0000 2359	
1613.50	214	S	HAARSFJAERDEN RADIO	S	018E40 58N59	400	CO	F1B	7	11	ND			0000 2359	
1613.50	214	S	KARLSKRONA RADIO	S	015E33 56N11	200	CO	F1B	-7	-3	ND			0000 2359	
1613.50	214	S	RUDA RADIO	S	016E18 57N12	200	CO	F1B	-7	-3	ND			0000 2359	
1613.50	214	S	TINGSTAEDE RADIO	S	018E36 57N44	300	CO	F1B	0	4	ND			0000 2359	
1613.50	214	URS	BATUMI	URS	041E19 41N39	400	CP	F1B	7	11	ND			0000 2359	
1614.00	215	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1614.00	215	D	FLENSBURG	D	009E41 54N48	400	CO	F1B	7	11	ND			0000 2359	
1614.00	215	EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	400	CP	F1B	7	11	ND			0000 2359	
1614.00	215	FNL	HELSINKI	FNL	022E57 59N50	400	CP	F1B	7	11	ND			0000 2359	
1614.00	215	G	NORWICK RADIO	G	000W45 60N29	320	CP	F1B	1	5	ND			0000 2359	
1614.00	215	G	ST EVAL	G	005W00 50N28	270	CO	F1B	-2	2	ND			0000 2359	
1614.00	215	GRC	PIRAEUS	GRC	023E40 37N58	370	CO	F1B	5	9	ND			0000 2359	
1614.00	215	TUN	BIZERTE RADIO	TUN	009E53 37N16	400	CP	F1B	7	11	ND			0600 1900	
1614.00	215	TUN	TUNIS RADIO	TUN	010E11 36N53	200	CP	F1B	-7	-3	ND			0000 2359	
1614.00	215	TUR	SAMSUN	TUR	036E20 41N17	250	CP	F1B	-4	0	ND			0000 2359	
1614.00	215	URS	MURMANSK	URS	033E10 68N58	400	CO	F1B	7	11	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1614.00	215	YUG	RIJEKA	YUG	014E33 45N07	300	CP	F1B	0	4	ND			0000 2359	
1614.50	216	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	F1B	7	11	ND			0000 2359	
1614.50	216	BEL	OOSTENDE	BEL	002E58 51N15	400	CO	F1B	7	11	ND			0000 2359	
1614.50	216	F	ARCACHON	F	001W10 44N39	200	CP	F1B	-7	-3	ND			0000 2359	
1614.50	216	G	WICK RADIO	G	003W06 58N26	320	CP	F1B	1	5	ND			0000 2359	
1614.50	216	GRC	KERKYRA	GRC	019E54 39N37	370	CP	F1B	5	9	ND			0000 2359	
1614.50	216	I	LA SPEZIA	I	009E43 44N06	400	CO	F1B	7	11	ND			0000 2359	
1614.50	216	POL	LAZY	POL	016E12 54N18	400	OT	F1B	7	11	ND			0000 2359	
1614.50	216	ROU	TULCEA	ROU	028E50 45N12	400	CP	F1B	7	11	ND			0000 2359	
1615.00	217	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	F1B	7	11	ND			0000 2359	
1615.00	217	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1615.00	217	DNK	LYNGBY	DNK	011E25 55N50	350	CP	F1B	3	7	ND			0000 2359	
1615.00	217	DNK	TORSHAVN	DNK	006W47 62N01	350	CP	F1B	3	7	ND			0000 2359	
1615.00	217	FNL	HELSINKI	FNL	025E02 60N09	400	CP	F1B	7	11	ND			0000 2359	
1615.00	217	G	CULLERCOATS RADIO	G	001W28 55N04	320	CP	F1B	1	5	ND			0000 2359	
1615.00	217	GRC	ATHINAI	GRC	023E53 38N00	370	CP	F1B	5	9	ND			0000 2359	
1615.00	217	I	CIVITAVECCHIA RADIO	I	011E49 42N01	400	CP	F1B	7	11	ND			0000 2359	
1615.00	217	ISR	ELAT RADIO	ISR	034E56 29N30	400	CP	F1B	27	31	ND			0000 2359	
1615.00	217	POR	HORTA	AZR	028W38 38N32	400	CO	F1B	7	11	ND			0000 2359	
1615.00	217	URS	IALTA	UKR	034E10 44N39	400	CP	F1B	7	11	ND			0000 2359	
1615.50	218	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	F1B	7	11	ND			0000 2359	
1615.50	218	E	CORUNA RADIO	E	008W27 43N22	400	CP	F1B	7	11	ND			0000 2359	
1615.50	218	FNL	HELSINKI	FNL	025E02 60N09	400	CP	F1B	7	11	ND			0000 2359	
1615.50	218	GRC	HERAKLION	GRC	025E45 35N19	370	CP	F1B	5	9	ND			0000 2359	
1615.50	218	HOL	SCHEVENINGEN	HOL	004E15 52N06	200	CP	F1B	-7	-3	ND			0000 2359	
1615.50	218	I	PALOMBARA	I	015E08 37N10	400	CO	F1B	7	11	ND			0000 2359	
1615.50	218	I	VENEZIA RADIO	I	012E21 45N26	400	CP	F1B	7	11	ND			0000 2359	
1615.50	218	IRL	HAULBOWLINE	IRL	008W18 51N50	400	CO	F1B	7	11	ND			0000 2359	
1615.50	218	NOR	BODOE	NOR	014E23 67N16	370	CP	F1B	5	9	ND			0000 2359	
1615.50	218	POL	SWINOUJSCIE	POL	014E15 53N52	400	OT	F1B	7	11	ND			0000 2359	
1615.50	218	ROU	CONSTANTA	ROU	028E37 44N06	400	CP	F1B	7	11	ND			0000 2359	
1615.50	218	URS	ARKHANGHELSK	URS	040E37 64N36	400	CO	F1B	7	11	ND			0000 2359	
1616.00	219	D	NORDDEICH RADIO	D	007E12 53N38	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	E	CABO DE LA NAO RADIO	E	000E11 38N43	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	F	S NAZAIRE	F	002W06 47N21	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	F1B	5	9	ND			0000 2359	
1616.00	219	I	ANCONA RADIO	I	013E28 43N36	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	I	LIVORNO RADIO	I	010E11 43N29	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	IRL	MALIN HEAD	IRL	007W21 55N22	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	F1B	7	11	ND			0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting coast station name
5	Symbol of the country or geographical area in which the station is located
6	Longitud and latitude of the transmitting station
7	Service range (km)
8	Nature of service
9	Class of emission
10A	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)
10B	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)
11A	Antenna characteristics: Azimuth of maximum radiation (degrees)
11B	Antenna characteristics: Maximum antenna gain (dB)
11C	Antenna characteristics: Angular width of the main lobe (degrees)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1616.00	219	ISR	HAIFA NAVAL RADIO	ISR	035E03 32N49	400	CO	F1B	7	11	ND			0000 2359	
1616.00	219	KEN	MOMBASA RADIO	KEN	039E34 03S58	400	CP	F1B	27	31	ND			0000 2359	
1616.00	219	S	STOCKHOLM RADIO	S	018E43 59N17	400	CP	F1B	7	11	ND			0000 2359	
1616.00	219	URS	BELOMORSK	URS	034E41 64N36	400	CO	F1B	7	11	ND			0000 2359	
1616.50	220	D	NEUSTADT	D	010E48 54N05	350	CO	F1B	3	7	ND			0000 2359	
1616.50	220	E	CARTAGENA	E	000W58 37N36	400	CO	F1B	7	11	ND			0000 2359	
1616.50	220	G	MILLTOWN	G	003W14 57N40	270	CO	F1B	-2	2	ND			0000 2359	
1616.50	220	G	ST EVAL	G	005W00 50N28	270	CO	F1B	-2	2	ND			0000 2359	
1616.50	220	I	LA MADDALENA	I	009E20 41N13	400	CO	F1B	7	11	ND			0000 2359	
1616.50	220	URS	TALLIN	URS	024E46 59N24	400	CO	F1B	7	11	ND			0000 2359	
1617.00	221	ALG	TENES RADIO	ALG	001E18 36N32	300	CP	F1B	0	4	ND			0000 2359	
1617.00	221	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1617.00	221	D	KIEL RADIO	D	010E08 54N26	400	CP	F1B	7	11	ND			0000 2359	
1617.00	221	E	CABO PENAS RADIO	E	005W51 43N39	400	CP	F1B	7	11	ND			0000 2359	
1617.00	221	F	GRASSE	F	006E55 43N40	400	CP	F1B	7	11	ND			0000 2359	
1617.00	221	G	PORTLAND	G	002W27 50N51	270	CO	F1B	-2	2	ND			0000 2359	
1617.00	221	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	F1B	-4	0	ND			0000 2359	
1617.00	221	I	LAMPEDUSA RADIO	I	012E36 35N30	400	CP	F1B	7	11	ND			0000 2359	
1617.00	221	MRC	CASABLANCA RADIO	MRC	007W34 33N34	400	CP	F1B	7	11	ND			0000 2359	
1617.00	221	MRC	DAKHLA RADIO	MRC	015W56 23N42	400	CP	F1B	27	31	ND			0000 2359	
1617.00	221	TUR	CANAKKALE	TUR	026E24 40N08	250	CP	F1B	-4	0	ND			0000 2359	
1617.00	221	URS	IZMAIL	UKR	028E51 45N20	200	CP	F1B	-7	-3	ND			0000 2359	
1617.00	221	URS	LENINGRAD	URS	030E21 59N59	400	CP	F1B	7	11	ND			0000 2359	
1617.00	221	URS	VENTSPILS	URS	021E32 57N24	100	CO	F1B	-15	-11	ND			0000 2359	
1617.00	221	YUG	DUBROVNIK	YUG	018E07 42N38	300	CP	F1B	0	4	ND			0000 2359	
1617.50	222	BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	F1B	7	11	ND			0000 2359	
1617.50	222	E	ARRECIFE RADIO	CNR	013W31 29N08	400	CP	F1B	27	31	ND			0000 2359	
1617.50	222	E	CABO DE GATA RADIO	E	002W12 36N43	400	CP	F1B	7	11	ND			0000 2359	
1617.50	222	I	NAPOLI RADIO	I	014E14 40N50	400	CP	F1B	7	11	ND			0000 2359	
1617.50	222	POL	SARBINOWO	POL	015E57 54N16	400	OT	F1B	7	11	ND			0000 2359	
1618.00	223	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	F1B	7	11	ND			0000 2359	
1618.00	223	E	LAS PALMAS RADIO	CNR	015W36 27N45	400	CP	F1B	27	31	ND			0000 2359	
1618.00	223	E	CADIZ	E	006W12 36N15	400	CO	F1B	7	11	ND			0000 2359	
1618.00	223	F	ARCACHON	F	001W10 44N39	200	CP	F1B	-7	-3	ND			0000 2359	
1618.00	223	GRC	RHODOS	GRC	028E12 36N26	370	CP	F1B	5	9	ND			0000 2359	
1618.00	223	I	ANCONA	I	013E31 43N37	400	CO	F1B	7	11	ND			0000 2359	
1618.00	223	S	HAERNOESAND RADIO	S	021E36 64N28	400	CP	F1B	7	11	ND			0000 2359	
1618.00	223	TUN	TUNIS RADIO	TUN	010E11 36N53	200	CP	F1B	-7	-3	ND			0000 2359	
1618.00	223	URS	KLAIPEDA	URS	021E12 55N46	400	CO	F1B	7	11	ND			0000 2359	
1618.50	224	BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	F1B	7	11	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1618.50	224	DNK	ROENNE	DNK	015E07 55N03	350	CP	F1B	3	7	ND			0000 2359	
1618.50	224	E	MACHICHACO RADIO	E	002W45 43N27	400	CP	F1B	7	11	ND			0000 2359	
1618.50	224	EGY	KOSSEIR RADIO	EGY	034E17 26N06	400	CP	F1B	27	31	ND			0000 2359	
1618.50	224	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	F1B	7	11	ND			0000 2359	
1618.50	224	NOR	HAMMERFEST	NOR	023E41 70N41	370	CP	F1B	5	9	ND			0000 2359	
1618.50	224	TUN	BIZERTE RADIO	TUN	009E53 37N16	400	CP	F1B	7	11	ND			0600 1900	
1618.50	224	TUN	SFAX RADIO	TUN	010E44 34N44	400	CP	F1B	7	11	ND			0600 2359	
1618.50	224	TUR	ISTANBUL	TUR	028E56 41N04	400	CP	F1B	7	11	ND			0000 2359	
1619.00	225	BEN	COTONOU	BEN	002E28 06N22	400	CP	F1B	27	31	ND			0000 2359	
1619.00	225	E	TENERIFE RADIO	CNR	016W20 28N25	400	CP	F1B	27	31	ND			0000 2359	
1619.00	225	E	BAGUR RADIO	E	003E13 41N58	400	CP	F1B	7	11	ND			0000 2359	
1619.00	225	E	CHIPIONA RADIO	E	006W25 36N42	400	CP	F1B	7	11	ND			0000 2359	
1619.00	225	F	BOULOGNE MER	F	001E38 50N43	400	CP	F1B	7	11	ND			0000 2359	
1619.00	225	GRC	CHIOS	GRC	026E08 38N19	370	CP	F1B	5	9	ND			0000 2359	
1619.00	225	I	AUGUSTA RADIO	I	015E13 37N13	400	CP	F1B	7	11	ND			0000 2359	
1619.00	225	I	TRIESTE RADIO	I	013E46 45N40	400	CP	F1B	7	11	ND			0000 2359	
1619.00	225	JOR	AQABA RADIO	JOR	034E59 29N33	400	CP	F1B	27	31	ND			0000 2359	
1619.00	225	NOR	VARDOE	NOR	031E05 70N22	370	CP	F1B	5	9	ND			0000 2359	
1619.00	225	POL	POBIEROWO	POL	014E54 54N04	400	OT	F1B	7	11	ND			0000 2359	
1619.00	225	URS	PETROZAVODSK	URS	034E19 61N48	400	CO	F1B	7	11	ND			0000 2359	
1619.50	226	E	LAS PALMAS	CNR	015W26 28N09	400	CO	F1B	27	31	ND			0000 2359	
1619.50	226	E	BARCELONA	E	001E55 41N17	400	CP	F1B	7	11	ND			0000 2359	
1619.50	226	F	LE CONQUET	F	004W44 48N20	400	CP	F1B	7	11	ND			0000 2359	
1619.50	226	FNL	VAASA	FNL	021E09 63N19	400	CP	F1B	7	11	ND			0000 2359	
1619.50	226	G	AKROTIRI	CYP	032E56 34N36	150	CO	F1B	-11	-7	ND			0000 2359	
1619.50	226	HOL	NES	HOL	006E04 53N24	400	CP	F1B	7	11	ND			0000 2359	
1619.50	226	I	NAPOLI	I	014E14 40N42	400	CO	F1B	7	11	ND			0000 2359	
1619.50	226	POR	MONSANTO	POR	009W11 38N44	400	CO	F1B	7	11	ND			0000 2359	
1619.50	226	TUR	ISTANBUL	TUR	028E56 41N04	400	CP	F1B	7	11	ND			0000 2359	
1619.50	226	URS	KALININGRAD	URS	020E30 54N45	400	CP	F1D	7	11	ND			0000 2359	
1620.00	227	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	F1B	7	11	ND			0000 2359	
1620.00	227	COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	F1B	27	31	ND			0000 2359	
1620.00	227	F	BOULOGNE MER	F	001E38 50N43	400	CP	F1B	7	11	ND			0000 2359	
1620.00	227	GRC	MOURNIES KRITIS	GRC	024E01 35N29	370	CO	F1B	5	9	ND			0000 2359	
1620.00	227	ISR	HAIFA RADIO	ISR	035E00 32N48	400	CP	F1B	7	11	ND			0000 2359	
1620.00	227	KEN	MOMBASA RADIO	KEN	039E34 03S58	400	CP	F1B	27	31	ND			0000 2359	
1620.00	227	KWT	RAS ALZOOR	KWT	048E56 28N28	400	CP	F1B	27	31	ND			0300 2100	
1620.00	227	POL	MIEDZYWODZIE	POL	014E42 54N01	400	OT	F1B	7	11	ND			0000 2359	
1620.00	227	ROU	AGIGEA	ROU	028E39 44N06	400	CP	F1B	7	11	ND			0000 2359	
1620.00	227	URS	BAKU	URS	049E45 40N20	400	CP	F1B	7	11	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1620.00	227	YUG	ZADAR	YUG	015E14 44N07	300	CP	F1B	0	4	ND			0000 2359	
1620.50	228	ALB	DURRES PT RADIO	ALB	019E26 41N27	200	CP	F1B	-7	-3	ND			0000 2359	
1620.50	228	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	F1B	7	11	ND			0000 2359	
1620.50	228	F	S MALO	F	002W02 48N38	400	CP	F1B	7	11	ND			0000 2359	
1620.50	228	I	GENOVA RADIO	I	008E56 44N25	400	CP	F1B	7	11	ND			0000 2359	
1620.50	228	MLT	XLOKK RADIO	MLT	014E32 35N49	400	CP	F1B	7	11	ND			0000 2359	
1620.50	228	S	GOETEBORG RADIO	S	011E56 57N28	400	CP	F1B	7	11	ND			0000 2359	
1620.50	228	URS	ODESSA	UKR	030E45 46N29	400	CO	F1B	7	11	ND			0000 2359	
1620.50	228	URS	MURMANSK	URS	033E10 68N58	400	CP	F1B	7	11	ND			0000 2359	
1620.50	228	URS	RIGA	URS	024E05 56N57	200	CO	F1B	-7	-3	ND			0000 2359	
1636.40	241	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	J3E	21	25	ND			0000 2359	
1636.40	241	ARS	DAMMAMRADIO	ARS	050E06 26N26	300	CP	J3E	34	38	ND			0000 2359	
1636.40	241	ARS	JEDDAHRADIO	ARS	039E10 21N23	300	CP	J3E	34	38	ND			0000 2359	
1636.40	241	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1636.40	241	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	J3E	17	21	ND			0000 2359	
1636.40	241	ETH	ASSAB	ETH	042E45 13N01	200	CP	J3E	27	31	ND			0000 2359	
1636.40	241	F	LE CONQUET	F	004W44 48N20	400	CP	J3E	21	25	ND			0000 2359	
1636.40	241	F	QUIMPERLE	F	003W30 47N52	400	CP	J3E	21	25	ND			0000 2359	
1636.40	241	F	S DENIS	REU	055E36 20S54	400	CP	J3E	41	45	ND			0000 2359	
1636.40	241	FNL	PORI	FNL	021E27 61N37	300	CP	J3E	14	18	ND			0000 2359	
1636.40	241	G	ASCENSION	ASC	014W25 07S56	200	CP	J3E	27	31	ND			0000 2359	
1636.40	241	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	J3E	19	23	ND			0000 2359	
1636.40	241	I	LAMPEDUSA RADIO	I	012E36 35N30	200	CP	J3E	7	11	ND			0000 2359	
1636.40	241	I	VENEZIA RADIO	I	012E21 45N26	400	CP	J3E	21	25	ND			0000 2359	
1636.40	241	MRC	TANTAN RADIO	MRC	011W07 28N35	200	CP	J3E	27	31	ND			0000 2359	
1636.40	241	NOR	HAMMERFEST	NOR	025E54 70N59	370	CP	J3E	19	23	ND			0800 1800	
1636.40	241	URS	ARKHANGHELSK	URS	040E37 64N36	400	CP	J3E	21	25	ND			0000 2359	
1639.40	242	AGL	SOYO	AGL	012E12 06S07	400	CP	J3E	41	45	ND			0000 2359	
1639.40	242	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	J3E	41	45	ND			0000 2359	
1639.40	242	CME	KRIBI	CME	009E43 02N53	400	CV	J3E	41	45	ND			0000 2359	
1639.40	242	E	LAREDO	E	003W21 43N25	370	CV	J3E	19	23	ND			0000 2359	
1639.40	242	EGY	KOSSEIR RADIO	EGY	034E17 27N06	400	CP	J3E	41	45	ND			0400 2200	
1639.40	242	ETH	MASSAWA	ETH	039E21 15N37	200	CP	J3E	27	31	ND			0000 2359	
1639.40	242	FNL	VAASA	FNL	021E09 63N19	300	CP	J3E	14	18	ND			0000 2359	
1639.40	242	G	HEBRIDES RADIO	G	007W02 58N14	320	CP	J3E	15	19	ND			0000 2359	
1639.40	242	G	NORTH FORELAND RADIO	G	001E25 51N22	120	CP	J3E	1	5	ND			0000 2359	
1639.40	242	GRC	CHIOS	GRC	026E08 38N19	370	CP	J3E	19	23	ND			0000 2359	
1639.40	242	I	PALERMO RADIO	I	013E22 38N07	400	CP	J3E	21	25	ND			0000 2359	
1639.40	242	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1639.40	242	MRC	CASABLANCA RADIO	MRC	007W34 33N34	400	CO	J3E	21	25	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1639.40	242	POL	KOLOBRZEG	POL	015E34 54N11	350	CV	J3E	17	21	ND			0000 2359	
1642.40	243	ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	J3E	21	25	ND			0000 2359	
1642.40	243	ARS	DAMMAMRADIO	ARS	050E06 26N26	300	CP	J3E	34	38	ND			0000 2359	
1642.40	243	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1642.40	243	BUL	BOURGAS RADIO	BUL	027E29 42N30	400	CO	J3E	21	25	ND			0000 2359	
1642.40	243	DNK	SKAGEN	DNK	010E34 57N44	350	CP	J3E	17	21	ND			0000 2359	
1642.40	243	DNK	TORSHAVN	DNK	006W47 62N01	350	CP	J3E	17	21	ND			0000 2359	
1642.40	243	ETH	MASSAWA	ETH	039E21 15N37	200	CP	J3E	27	31	ND			0000 2359	
1642.40	243	G	NITON RADIO	G	001W18 50N35	320	CP	J3E	15	19	ND			0000 2359	
1642.40	243	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1642.40	243	MRC	CASABLANCA RADIO	MRC	007W34 33N34	400	CP	J3E	21	25	ND			0000 2359	
1642.40	243	TUR	TRABZON	TUR	039E43 41N00	250	CP	J3E	10	14	ND			0000 2359	
1642.40	243	URS	PETROKREPOST	URS	031E00 59N54	400	CO	J3E	21	25	ND			0000 2359	
1642.40	243	URS	RIGA	URS	024E05 56N57	200	CP	J3E	7	11	ND			0000 2359	
1642.40	243	URS	SVETLVI	URS	020E06 54N40	90	CO	J3E	-2	2	ND			0000 2359	
1642.40	243	URS	TCHELEKEN	URS	053E24 39N24	400	CO	J3E	21	25	ND			0000 2359	
1642.40	243	YUG	KOPER	YUG	013E44 45N33	300	CP	J3E	14	18	ND			0000 2359	
1645.40	244	AGL	NAMIBE	AGL	012E09 15S11	400	CP	J3E	41	45	ND			0000 2359	
1645.40	244	CME	LIMBE	CME	009E22 04N02	400	CP	J3E	41	45	ND			0000 2359	
1645.40	244	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	J3E	34	38	ND			0000 2359	
1645.40	244	D	BORKUM	D	006E39 53N35	150	CO	J3E	3	7	ND			0000 2359	
1645.40	244	D	BREMERHAVEN	D	008E35 53N33	80	CO	J3E	-4	0	ND			0000 2359	
1645.40	244	D	BUESUM	D	008E50 54N10	90	CO	J3E	-2	2	ND			0000 2359	
1645.40	244	D	EMDEN	D	007E12 53N21	80	CO	J3E	-4	0	ND			0000 2359	
1645.40	244	D	HUSUM	D	009E03 54N28	100	CO	J3E	-1	3	ND			0000 2359	
1645.40	244	D	LEER	D	007E27 53N13	50	CO	J3E	-8	-4	ND			0000 2359	
1645.40	244	D	NORDERNEY	D	007E08 53N42	130	CO	J3E	1	5	ND			0000 2359	
1645.40	244	D	OLDENBURG	D	008E12 53N08	110	CO	J3E	0	4	ND			0000 2359	
1645.40	244	D	WILHELMSHAVEN	D	008E07 53N31	70	CO	J3E	-5	-1	ND			0000 2359	
1645.40	244	DJI	DJIBOUTI	DJI	043E08 11N36	400	CP	J3E	41	45	ND			0000 2359	
1645.40	244	E	ARRECIFE	CNR	013W31 29N08	370	CP	J3E	39	43	ND			0000 2359	
1645.40	244	E	CARTAGENA	E	000W58 37N36	400	CO	J3E	21	25	ND			0000 2359	
1645.40	244	FNL	MARIEHAMN RV	FNL	019E56 60N05	300	CO	J3E	14	18	ND			0000 2359	
1645.40	244	G	ST HELENA	SHN	005W43 15S56	300	CP	J3E	34	38	ND			0000 2359	
1645.40	244	GUI	KONAKRI	GUI	013W37 09N30	400	CR	J3E	41	45	ND			0000 2359	
1645.40	244	I	LIVORNO RADIO	I	010E11 43N29	200	CP	J3E	7	11	ND			0000 2359	
1645.40	244	I	PALOMBARA	I	015E08 37N10	220	CO	J3E	8	12	ND			0000 2359	
1645.40	244	IRL	MALIN HEAD	IRL	007W21 55N22	370	CP	J3E	19	23	ND			0000 2359	
1645.40	244	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1645.40	244	TUR	IZMIR	TUR	027E10 38N24	250	CP	J3E	10	14	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1645.40	244	TUR	SAMSUN	TUR	036E20 41N17	250	CP	J3E	10	14	ND			0000 2359	
1645.40	244	UAE	FUJAIRAH	UAE	056E20 25N09	400	CV	J3E	41	45	ND			0000 2359	
1645.40	244	URS	MURMANSK	URS	033E10 68N58	400	CO	J3E	21	25	ND			0000 2359	
1648.40	245	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	J3E	21	25	ND			0000 2359	
1648.40	245	BEL	OOSTENDE	BEL	002E58 51N15	400	CO	J3E	21	25	ND			0000 2359	
1648.40	245	BUL	PRIMORSKO RADIO	BUL	027E47 42N16	400	CO	J3E	21	25	ND			0000 2359	
1648.40	245	E	CORUNA RADIO	E	008W27 43N22	370	CP	J3E	19	23	ND			0000 2359	
1648.40	245	G	ASCENSION	ASC	014W25 07S56	200	CP	J3E	27	31	ND			0000 2359	
1648.40	245	G	PENTLAND COASTGUARD	G	002W57 58N59	180	OT	J3E	5	9	ND			0000 2359	
1648.40	245	I	TARANTO	I	017E25 40N26	220	CO	J3E	8	12	ND			0000 2359	
1648.40	245	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1648.40	245	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1648.40	245	MRC	MDIQ RADIO	MRC	005W20 35N40	100	CO	J3E	-1	3	ND			0000 2359	
1648.40	245	S	AELVSBORG RADIO	S	011E30 58N30	200	CO	J3E	7	11	ND			0000 2359	
1648.40	245	UAE	DUBAI	UAE	055E16 25N14	400	CV	J3E	41	45	ND			0000 2359	
1648.40	245	URS	PETROZAVODSK	URS	034E19 61N48	400	CO	J3E	21	25	ND			0000 2359	
1651.40	246	AGL	CABINDA	AGL	012E11 05S34	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	DDR	RUEGEN	DDR	013E37 54N35	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	E	CEUTA	E	005W16 35N53	370	CP	J3E	19	23	ND			0000 2359	
1651.40	246	F	BREST BALISAGE	F	004W29 48N23	370	OT	J3E	19	23	ND			0700 1630	
1651.40	246	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	J3E	10	14	ND			0000 2359	
1651.40	246	I	PALERMO RADIO	I	013E22 38N07	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1651.40	246	ISL	HORNAFJOERDUR RADIO	ISL	015W13 64N15	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	KEN	MOMBASA RADIO	KEN	039E44 03S58	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	LBY	TOBRUK	LBY	023E59 32N02	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1651.40	246	OMA	MUSSANDAM	OMA	056E21 26N22	400	CO	J3E	41	45	ND			0000 2359	
1651.40	246	ROU	MANGALIA	ROU	028E35 43N48	400	CP	J3E	21	25	ND			0000 2359	
1651.40	246	URS	NARVA-IESSU	URS	028E12 59N22	230	CO	J3E	9	13	ND			0000 2359	
1654.40	247	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	J3E	27	31	ND			0000 2359	
1654.40	247	E	BARCELONA RADIO	E	001E55 41N17	370	CP	J3E	19	23	ND			0000 2359	
1654.40	247	FNL	HELSINKI	FNL	025E02 60N09	300	CP	J3E	14	18	ND			0000 2359	
1654.40	247	G	FERRIS POINT LSTN	G	005W47 54N41	150	OT	J3E	3	7	ND			0000 2359	
1654.40	247	HOL	VLISSINGEN	HOL	003E37 51N27	180	CP	J3E	5	9	ND			0000 2359	
1654.40	247	I	BARI RADIO	I	016E59 41N05	400	CP	J3E	21	25	ND			0000 2359	
1654.40	247	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1654.40	247	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1654.40	247	NOR	BERGEN	NOR	005E22 60N25	370	CP	J3E	19	23	ND			0000 2359	
1654.40	247	NOR	HARSTAD	NOR	016E04 69N18	370	CP	J3E	19	23	ND			0800 1800	
1654.40	247	POR	FIGUEIRA DA FOZ	POR	008W50 40N08	200	CP	J3E	7	11	ND			0000 2359	
1654.40	247	POR	OLHAO	POR	007W50 37N02	200	CP	J3E	7	11	ND			0000 2359	
1654.40	247	TUN	MAHDIA RADIO 2 MDN	TUN	011E04 35N30	400	CO	J3E	21	25	ND			0600 1900	
1654.40	247	URS	BATUMI	URS	041E19 41N39	400	CP	J3E	21	25	ND			0000 2359	
1654.40	247	URS	MEZEN	URS	044E17 65N51	400	CO	J3E	21	25	ND			0000 2359	
1654.40	247	URS	NARIAN-MAR	URS	053E00 67N39	400	CO	J3E	21	25	ND			0000 2359	
1657.40	248	AGL	LOBITO	AGL	013E33 12S22	400	CP	J3E	41	45	ND			0000 2359	
1657.40	248	D	FLENSBURG	D	009E41 54N48	400	CO	J3E	21	25	ND			0000 2359	
1657.40	248	D	WILHELMSHAVEN	D	007E37 53N41	400	CO	J3E	21	25	ND			0000 2359	
1657.40	248	E	CHIPIONA RADIO	E	006W25 36N42	370	CP	J3E	19	23	ND			0000 2359	
1657.40	248	FNL	HELSINKI RV	FNL	024E50 60N13	300	CO	J3E	14	18	ND			0000 2359	
1657.40	248	G	BURRA FIRTH	G	000W53 60N48	150	OT	J3E	3	7	ND			0900 1700	
1657.40	248	G	RATHLIN EAST LSTN	G	006W10 55N18	150	OT	J3E	3	7	ND			0000 2359	
1657.40	248	GNE	BATA	GNE	009E44 01N49	400	CO	J3E	41	45	ND			0000 2359	
1657.40	248	GRC	LIMNOS	GRC	025E11 39N54	370	CP	J3E	19	23	ND			0000 2359	
1657.40	248	I	LAMPEDUSA RADIO	I	012E36 35N30	400	CP	J3E	21	25	ND			0000 2359	
1657.40	248	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1657.40	248	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1657.40	248	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	J3E	10	14	ND			0000 2359	
1657.40	248	URS	TEMRIUK	URS	037E24 45N17	90	OT	J3E	-2	2	ND			0000 2359	
1657.40	248	YUG	RIJEKA	YUG	014E33 45N07	300	CP	J3E	14	18	ND			0000 2359	
1660.40	249	E	BARBATE	E	005W55 36N11	370	CV	J3E	19	23	ND			0000 2359	
1660.40	249	G	JERSEY RADIO	G	002W12 49N14	150	CP	J3E	3	7	ND			0000 2359	
1660.40	249	G	NORWICK RADIO	G	000W45 60N29	320	CP	J3E	15	19	ND			0000 2359	
1660.40	249	GRC	CHIOS	GRC	026E08 38N19	370	CP	J3E	19	23	ND			0000 2359	
1660.40	249	HOL	IJMUIDEN	HOL	004E35 52N28	100	CP	J3E	-1	3	ND			0000 2359	
1660.40	249	I	GENOVA RADIO	I	008E56 44N25	400	CP	J3E	21	25	ND			0000 2359	
1660.40	249	ISL	REYKJAVIK RADIO	ISL	022W02 64N09	400	CP	J3E	21	25	ND			0000 2359	
1660.40	249	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	MOZ	NACALA RADIO	MOZ	040E39 14S34	400	CP	J3E	41	45	ND			0000 2359	
1660.40	249	NIG	BURUTU	NIG	005E30 05N21	50	CV	J3E	12	16	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1660.40	249	NOR	BODOE	NOR	014E23 67N16	370	CP	J3E	19	23	ND			0000 2359	
1660.40	249	POL	WLADYSLAWOWO	POL	018E25 54N45	400	CV	J3E	21	25	ND			0000 2359	
1660.40	249	TUN	GABES RADIO	TUN	010E07 33N45	300	CP	J3E	14	18	ND			0600 1900	
1660.40	249	UAE	ABUDHABI	UAE	054E17 24N23	200	CV	J3E	27	31	ND			0000 2359	
1663.40	250	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	J3E	41	45	ND			0000 2359	
1663.40	250	BUL	BOURGAS RADIO	BUL	027E29 42N30	400	CO	J3E	21	25	ND			0000 2359	
1663.40	250	E	LAS PALMAS RADIO	CNR	015W36 27N45	370	CP	J3E	39	43	ND			0000 2359	
1663.40	250	E	BAGUR RADIO	E	003E13 41N58	370	CP	J3E	19	23	ND			0000 2359	
1663.40	250	G	ALDERNEY	G	002W12 49N43	100	OT	J3E	-1	3	ND			0000 2359	
1663.40	250	G	BRIXHAM COASTGUARD	G	004W13 50N19	180	OT	J3E	5	9	ND			0000 2359	
1663.40	250	G	CASQUETS LSTN	G	002W22 49N43	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	DOWSING LSTN	G	000E50 53N34	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	DUDGEON LSTN	G	001E13 53N15	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	FALMOUTH COASTGUARD	G	005W03 50N09	180	OT	J3E	5	9	ND			0000 2359	
1663.40	250	G	GUERNSEY	G	002W32 49N27	100	OT	J3E	-1	3	ND			0000 2359	
1663.40	250	G	HAISBOROUGH	G	001E34 52N58	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	HANOIS LSTN	G	002W42 49N26	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	HUMBER LSTN	G	000E21 53N36	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	INNER DOWSING LSTN	G	000E33 53N19	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	IS OF JETHOU	G	002W27 49N27	100	OT	J3E	-1	3	ND			0000 2359	
1663.40	250	G	MAIDENS LSTN	G	005W44 54N56	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	MEW ISLAND LSTN	G	005W31 54N42	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	NEWARP LSTN	G	001E55 52N48	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	ROYAL SOVEREIGN LSTN	G	000E26 50N43	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	SHOREHAM COASTGUARD	G	000W15 50N49	180	OT	J3E	5	9	ND			0000 2359	
1663.40	250	G	SMITHS KNOLL LSTN	G	002E18 52N43	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	SOUTH ROCK LSTN	G	005W22 54N24	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	G	YARMOUTH COASTGUARD	G	001E19 52N56	180	OT	J3E	5	9	ND			0000 2359	
1663.40	250	I	AUGUSTA RADIO	I	015E13 37N13	400	CP	J3E	21	25	ND			0000 2359	
1663.40	250	I	S BENEDETTO TRONTO	I	013E52 42N57	200	CP	J3E	7	11	ND			0000 2359	
1663.40	250	IRL	BAILY LSTN	IRL	006W03 53N22	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	BALLYCOTTON LSTN	IRL	007W59 51N50	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	BLACKROCK MAYO LSTN	IRL	010W19 54N04	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	BLACKSOD LSTN	IRL	010W03 54N05	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	BULL ROCK LSTN	IRL	010W18 51N36	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	CASTLETOWN HELIBASE	IRL	009W54 51N39	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	CLIFDEN HELIBASE	IRL	009W09 53N29	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	CONINGBEG LSTN	IRL	006W39 52N02	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	DUN LAOGHAIRE DEPOT	IRL	006W08 53N17	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	EAGLE ISLAND LSTN	IRL	010W06 54N17	150	OT	J3E	3	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1663.40	250	IRL	EERAGH LSTN	IRL	009W51 53N08	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	FANAD HEAD LSTN	IRL	007W37 55N16	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	FASTNET LSTN	IRL	009W36 51N23	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	INISHEER LSTN	IRL	009W31 53N02	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	INISHTEARAGHT LSTN	IRL	010W39 52N04	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	INISHTRAHULL LSTN	IRL	007W14 55N25	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	KISH BANK LSTN	IRL	005W55 53N19	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	LOOPHEAD LSTN	IRL	009W56 52N34	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	MIZEN HEAD LSTN	IRL	009W49 51N27	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	RATHLIN O'BIRNE LSTN	IRL	008W50 54N40	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	ROANCARRIGMORE LSTN	IRL	009W45 51N39	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	ROCKABILL LSTN	IRL	006W00 53N36	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	ROSSLARE HELIBASE	IRL	006W21 52N16	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	SKELLIGS LSTN	IRL	010W33 51N46	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	SLYNE HEAD LSTN	IRL	010W14 53N24	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	TORY ISLAND LSTN	IRL	008W15 55N16	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	TUSKAR LSTN	IRL	006W12 52N12	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	IRL	WICKLOW HEAD LSTN	IRL	006W00 52N58	150	OT	J3E	3	7	ND			0000 2359	
1663.40	250	POL	SARBINOWO	POL	015E57 54N16	400	OT	J3E	21	25	ND			0000 2359	
1663.40	250	POR	VILA MOURA	POR	008W06 37N04	150	CV	J3E	3	7	ND			0000 2359	
1663.40	250	TGO	LOME RADIO	TGO	001E30 06N36	100	CP	J3E	19	23	ND			0000 2359	
1663.40	250	TUR	TRABZON	TUR	039E43 41N00	250	CP	J3E	10	14	ND			0000 2359	
1663.40	250	URS	LENINGRAD	URS	030E21 59N59	280	CO	J3E	13	17	ND			0000 2359	
1663.40	250	URS	LODEINOE	URS	033E34 60N43	400	CO	J3E	21	25	ND			0000 2359	
1663.40	250	URS	PRIOZERSK	URS	030E10 61N02	400	CO	J3E	21	25	ND			0000 2359	
1666.40	251	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	J3E	21	25	ND			0000 2359	
1666.40	251	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	J3E	41	45	ND			0000 2359	
1666.40	251	BUL	NESSEBAR RADIO	BUL	027E24 42N29	400	CO	J3E	21	25	ND			0000 2359	
1666.40	251	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	J3E	34	38	ND			0000 2359	
1666.40	251	G	ARDNAMURCHAN LTSN	G	006W13 56N44	150	OT	J3E	3	7	ND			0000 2359	
1666.40	251	I	CIVITAVECCHIA RADIO	I	011E49 42N01	400	CP	J3E	21	25	ND			0000 2359	
1666.40	251	ISR	HAIFA NAVAL RADIO	ISR	035E03 32N49	400	CO	J3E	21	25	ND			0000 2359	
1666.40	251	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1666.40	251	NOR	TJOEME	NOR	010E25 59N05	180	CP	J3E	5	9	ND			0000 2359	
1666.40	251	URS	KRASNOVODSK	URS	052E57 40N00	400	CP	J3E	21	25	ND			0000 2359	
1666.40	251	URS	NARIAN-MAR	URS	053E00 67N39	400	CP	J3E	21	25	ND			0000 2359	
1666.40	251	URS	VENTSPILS	URS	021E32 57N24	400	CP	J3E	21	25	ND			0000 2359	
1669.40	252	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	J3E	21	25	ND			0000 2359	
1669.40	252	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1669.40	252	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	J3E	41	45	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1669.40	252	E	FERROL	E	008W16 43N28	400	CO	J3E	21	25	ND			0000 2359	
1669.40	252	ETH	ASSAB	ETH	042E45 13N01	200	CP	J3E	27	31	ND			0000 2359	
1669.40	252	I	MESSINA RADIO	I	015E33 38N11	400	CP	J3E	21	25	ND			0000 2359	
1669.40	252	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1669.40	252	MRC	SAFI RADIO	MRC	009W14 32N18	400	CP	J3E	21	25	ND			0000 2359	
1669.40	252	POL	POBIEROWO	POL	014E54 54N04	400	OT	J3E	21	25	ND			0000 2359	
1669.40	252	TUR	IZMIR	TUR	027E10 38N24	250	CP	J3E	10	14	ND			0000 2359	
1669.40	252	TUR	SAMSUN	TUR	036E20 41N17	250	CP	J3E	10	14	ND			0000 2359	
1669.40	252	URS	BAKU	URS	049E45 40N20	400	CO	J3E	21	25	ND			0000 2359	
1672.40	253	COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	J3E	41	45	ND			0000 2359	
1672.40	253	CTI	ABIDJAN SANTE MARINE	CTI	004W01 05N18	200	CR	J3E	27	31	ND			0000 2359	
1672.40	253	ETH	ASSAB	ETH	042E45 13N01	200	CP	J3E	27	31	ND			0000 2359	
1672.40	253	F	LE CONQUET	F	004W44 48N20	400	CP	J3E	21	25	ND			0000 2359	
1672.40	253	F	MARSEILLE	F	005E21 43N14	400	CO	J3E	21	25	ND			0000 2359	
1672.40	253	F	QUIMPERLE	F	003W30 47N52	400	CP	J3E	21	25	ND			0000 2359	
1672.40	253	F	S MALO	F	002W02 48N38	400	CP	J3E	21	25	ND			0000 2359	
1672.40	253	FNL	KOTKA	FNL	026E54 60N29	300	CP	J3E	14	18	ND			0000 2359	
1672.40	253	GRC	MOURNIES KRITIS	GRC	024E01 35N29	370	CO	J3E	19	23	ND			0000 2359	
1672.40	253	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1672.40	253	MRC	NADOR	MRC	002W56 35N10	400	CP	J3E	21	25	ND			0000 2359	
1672.40	253	NOR	BODOE/HARSTAD	NOR	018E57 69N39	370	CO	J3E	19	23	ND			0000 2359	
1672.40	253	NOR	FARSUND	NOR	006E45 58N04	370	CP	J3E	19	23	ND			0000 2359	
1672.40	253	OMA	MUSCAT	OMA	058E36 23N37	400	CO	J3E	41	45	ND			0000 2359	
1672.40	253	TUN	SFAX RADIO	TUN	010E44 34N44	400	CP	J3E	21	25	ND			0600 2359	
1672.40	253	URS	KOLGUEV	URS	049E07 69N30	400	OT	J3E	21	25	ND			0000 2359	
1672.40	253	YUG	ZADAR	YUG	015E14 44N07	300	CP	J3E	14	18	ND			0000 2359	
1675.40	254	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	J3E	41	45	ND			0000 2359	
1675.40	254	E	CABO PENAS RADIO	E	005W51 43N39	370	CP	J3E	19	23	ND			0000 2359	
1675.40	254	G	FAIR ISLE S LTSN	G	001W39 59N31	150	OT	J3E	3	7	ND			0000 2359	
1675.40	254	GHA	TEMA	GHA	000W00 05N37	400	CP	J3E	41	45	ND			0000 2359	
1675.40	254	GNE	BATA	GNE	009E44 01N49	400	CO	J3E	41	45	ND			0000 2359	
1675.40	254	HOL	SCHEVENINGEN	HOL	004E15 52N06	400	CP	J3E	21	25	ND			0000 2359	
1675.40	254	I	CAGLIARI RADIO	I	009E07 39N15	400	CP	J3E	21	25	ND			0000 2359	
1675.40	254	MRC	DAKHLA	MRC	015W56 23N42	400	CP	J3E	41	45	ND			0000 2359	
1675.40	254	NOR	HARSTAD	NOR	018E57 69N39	370	CP	J3E	19	23	ND			0000 2359	
1675.40	254	ROU	CONSTANTA	ROU	028E37 44N06	300	OT	J3E	14	18	ND			0000 2359	
1675.40	254	S	STOCKHOLM RADIO	S	018E43 59N17	400	CP	J3E	21	25	ND			0000 2359	
1675.40	254	URS	MAKHATCHKALA	URS	047E30 42N59	400	CP	J3E	21	25	ND			0000 2359	
1678.40	255	ALB	SARANDE RADIO	ALB	020E00 39N52	200	CP	J3E	7	11	ND			0000 2359	
1678.40	255	BHR	BAHRAIN	BHR	050E35 26N14	400	CP	J3E	41	45	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1678.40	255	CTI	S. PEDRO PORT	CTI	006W37 04N44	200	CR	J3E	27	31	ND			0000 2359	
1678.40	255	D	BREMERHAVEN	D	008E30 53N31	220	OT	J3E	8	12	ND			0000 2359	
1678.40	255	D	CUXHAVEN	D	008E43 53N52	210	OT	J3E	8	12	ND			0000 2359	
1678.40	255	D	KIEL	D	010E08 54N26	100	OT	J3E	-1	3	ND			0000 2359	
1678.40	255	E	LAS PALMAS	CNR	015W26 28N09	400	CO	J3E	41	45	ND			0000 2359	
1678.40	255	E	CABO PENAS RADIO	E	005W51 43N39	370	CP	J3E	19	23	ND			0000 2359	
1678.40	255	FNL	MARIEHAMN	FNL	019E57 60N07	400	CP	J3E	21	25	ND			0000 2359	
1678.40	255	GUI	KONAKRY	GUI	013W37 09N30	200	CP	J3E	27	31	ND			0000 2359	
1678.40	255	I	PORTO TORRES RADIO	I	008E23 40N50	400	CP	J3E	21	25	ND			0000 2359	
1678.40	255	IRL	MALIN HEAD	IRL	007W21 55N22	370	CP	J3E	19	23	ND			0000 2359	
1678.40	255	LBY	BENGHAZI	LBY	020E04 32N07	300	CP	J3E	14	18	ND			0000 2359	
1678.40	255	MRC	EL HOCEIMA RADIO	MRC	003W58 35N10	200	CP	J3E	7	11	ND			0000 2359	
1678.40	255	URS	IZMAIL	UKR	028E51 45N20	90	CP	J3E	-2	2	ND			0000 2359	
1681.40	256	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	J3E	21	25	ND			0000 2359	
1681.40	256	BEL	BRUGGE	BEL	003E15 51N12	400	CO	J3E	21	25	ND			0000 2359	
1681.40	256	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1681.40	256	GUI	KAMSAR	GUI	015W36 11N40	200	CP	J3E	27	31	ND			0000 2359	
1681.40	256	I	TRIESTE RADIO	I	013E46 45N40	200	CP	J3E	7	11	ND			0000 2359	
1681.40	256	MRC	TANTAN RADIO	MRC	011W07 28N35	200	CP	J3E	27	31	ND			0000 2359	
1681.40	256	MTN	NOUADHIBOU RADIO	MTN	017W03 20N54	400	CP	J3E	41	45	ND			0800 1800	
1681.40	256	NOR	FLOROE	NOR	005E00 61N36	370	CP	J3E	19	23	ND			0800 1800	
1681.40	256	NOR	HARSTAD	NOR	019E01 69N43	370	CP	J3E	19	23	ND			0800 1800	
1681.40	256	POL	MIKOSZEWO	POL	019E58 54N21	400	OT	J3E	21	25	ND			0000 2359	
1681.40	256	POR	MATOSINHOS	POR	008W45 41N12	200	CP	J3E	7	11	ND			0000 2359	
1681.40	256	POR	SETUBAL	POR	008W55 38N32	200	OT	J3E	7	11	ND			0000 2359	
1681.40	256	TUR	ISTANBUL	TUR	028E56 41N04	400	CP	J3E	21	25	ND			0000 2359	
1681.40	256	UAE	ABUDHABI	UAE	054E17 24N23	200	CV	J3E	27	31	ND			0000 2359	
1681.40	256	URS	FORT SHEVTCHENKO	URS	050E18 44N30	400	CP	J3E	21	25	ND			0000 2359	
1681.40	256	URS	ONEGA	URS	038E10 63N57	190	CP	J3E	6	10	ND			0000 2359	
1684.40	257	BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	J3E	21	25	ND			0000 2359	
1684.40	257	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	J3E	34	38	ND			0000 2359	
1684.40	257	CYP	CYPRUS RADIO	CYP	033E17 35N03	300	CP	J3E	14	18	ND			0000 2359	
1684.40	257	E	ALICANTE	E	000W29 38N21	370	CP	J3E	19	23	ND			0000 2359	
1684.40	257	I	VENEZIA RADIO	I	012E21 45N26	200	CP	J3E	7	11	ND			0000 2359	
1684.40	257	MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	J3E	21	25	ND			0000 2359	
1684.40	257	NOR	KRISTIANSAND S	NOR	007E59 58N03	100	CO	J3E	-1	3	ND			0000 2359	
1684.40	257	UAE	ABUDHABI	UAE	054E17 24N23	180	CV	J3E	25	29	ND			0000 2359	
1684.40	257	URS	BATUMI	URS	041E19 41N39	400	CO	J3E	21	25	ND			0000 2359	
1684.40	257	URS	HAAPSALU	URS	023E21 58N34	400	CO	J3E	21	25	ND			0000 2359	
1684.40	257	URS	POTI	URS	041E49 42N08	400	CO	J3E	21	25	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
											Necessary transmitting power		Antenna characteristics		
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1684.40	257	URS	SUKHUMI	URS	040E42 43N00	400	CO	J3E	21	25	ND			0000 2359	
1684.40	257	URS	TALLIN	URS	024E46 59N24	400	CO	J3E	21	25	ND			0000 2359	
1687.40	258	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1687.40	258	BUL	VARNA RADIO	BUL	027E46 43N04	400	CO	J3E	21	25	ND			0000 2359	
1687.40	258	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	J3E	17	21	ND			0000 2359	
1687.40	258	F	S NAZAIRE	F	002W06 47N20	400	CP	J3E	21	25	ND			0000 2359	
1687.40	258	FNL	HANKO RV	FNL	023E01 59N49	300	CO	J3E	14	18	ND			0000 2359	
1687.40	258	G	MULL OF KINTYRE LTSN	G	005W45 55N19	150	OT	J3E	3	7	ND			0000 2359	
1687.40	258	MRC	EL HOCEIMA RADIO	MRC	003W58 35N10	200	CO	J3E	7	11	ND			0000 2359	
1687.40	258	POR	MADEIRA	MDR	016W50 32N38	250	CP	J3E	10	14	ND			0000 2359	
1687.40	258	TUN	BIZERTE RADIO	TUN	009E53 37N16	190	CP	J3E	6	10	ND			0600 1900	
1687.40	258	UAE	ABUDHABI	UAE	054E17 24N23	150	CV	J3E	23	27	ND			0000 2359	
1687.40	258	URS	ARKHANGHELSK	URS	040E37 64N36	400	CO	J3E	21	25	ND			0000 2359	
1687.40	258	YUG	SPLIT	YUG	016E29 43N30	300	CP	J3E	14	18	ND			0000 2359	
1690.40	259	BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	J3E	21	25	ND			0000 2359	
1690.40	259	BUL	BALTCHIK RADIO	BUL	028E06 43N17	400	CO	J3E	21	25	ND			0000 2359	
1690.40	259	E	LAS PALMAS RADIO	CNR	015W36 27N45	370	CP	J3E	39	43	ND			0000 2359	
1690.40	259	G	BRESSAY LTSN	G	001W07 60N07	150	OT	J3E	3	7	ND			0000 2359	
1690.40	259	GHA	TAKORADI	GHA	001W45 04N54	400	CP	J3E	41	45	ND			0600 1800	
1690.40	259	I	TRAPANI RADIO	I	012E30 38N01	400	CP	J3E	21	25	ND			0000 2359	
1690.40	259	POL	SUCHACZ	POL	019E28 54N17	400	OT	J3E	21	25	ND			0000 2359	
1690.40	259	POR	PENICHE	POR	009W25 39N20	200	CP	J3E	7	11	ND			0000 2359	
1690.40	259	POR	VILA REAL S ANTONIO	POR	007W28 37N12	200	CP	J3E	7	11	ND			0000 2359	
1690.40	259	UAE	ABUDHABI	UAE	054E17 24N23	180	CV	J3E	25	29	ND			0000 2359	
1690.40	259	URS	BAKU	URS	049E45 40N20	400	CP	J3E	21	25	ND			0000 2359	
1693.40	260	ALG	EL KALA RADIO	ALG	008E27 36N53	100	CO	J3E	-1	3	ND			0000 2359	
1693.40	260	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1693.40	260	E	VALENCIA	E	000W18 39N27	370	CP	J3E	19	23	ND			0000 2359	
1693.40	260	F	BOULOGNE MER	F	001E38 50N43	400	CP	J3E	21	25	ND			0000 2359	
1693.40	260	I	BARI RADIO	I	016E59 41N05	400	CP	J3E	21	25	ND			0000 2359	
1693.40	260	MRC	EL JADIDA RADIO	MRC	008W40 33N07	300	CP	J3E	14	18	ND			0000 2359	
1693.40	260	NOR	ROGALAND	NOR	005E34 58N48	180	CP	J3E	5	9	ND			0000 2359	
1693.40	260	POL	GDYNIA	POL	018E32 54N32	400	CR	J3E	21	25	ND			0000 2359	
1693.40	260	UAE	SHARJAH	UAE	055E17 25N22	200	CV	J3E	27	31	ND			0000 2359	
1693.40	260	URS	GENITCHESK	UKR	034E48 46N12	400	CO	J3E	21	25	ND			0000 2359	
1693.40	260	URS	KHERSON	UKR	032E34 46N39	230	CO	J3E	9	13	ND			0000 2359	
1693.40	260	URS	NIKOPOL	UKR	034E25 47N36	400	CO	J3E	21	25	ND			0000 2359	
1693.40	260	URS	OTCHAKOV	UKR	031E30 46N37	190	CO	J3E	6	10	ND			0000 2359	
1693.40	260	URS	LODEINOE	URS	033E34 60N43	230	CO	J3E	9	13	ND			0000 2359	
1693.40	260	URS	MURMANSK	URS	033E10 68N58	400	CO	J3E	21	25	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1696.40	261	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	J3E	21	25	ND			0000 2359	
1696.40	261	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	J3E	17	21	ND			0000 2359	
1696.40	261	F	MARSEILLE BALISAGE	F	005E21 43N17	180	OT	J3E	5	9	ND			0700 1630	
1696.40	261	FNL	PORI RV	FNL	021E31 61N34	300	CO	J3E	14	18	ND			0000 2359	
1696.40	261	G	LANDS END RADIO	G	005W40 50N07	320	CP	J3E	15	19	ND			0000 2359	
1696.40	261	GRC	ATHINAI	GRC	023E53 38N00	370	CP	J3E	19	23	ND			0000 2359	
1696.40	261	I	TRIESTE RADIO	I	013E46 45N40	400	CP	J3E	21	25	ND			0000 2359	
1696.40	261	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1696.40	261	NOR	VARDOE	NOR	027E51 71N02	370	CP	J3E	19	23	ND			0800 1800	
1696.40	261	TUN	MAHDIA RADIO	TUN	011E04 35N30	400	CP	J3E	21	25	ND			0600 1900	
1699.40	262	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	J3E	21	25	ND			0000 2359	
1699.40	262	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1699.40	262	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	J3E	17	21	ND			0000 2359	
1699.40	262	E	LAS PALMAS RADIO	CNR	015W36 27N45	370	CP	J3E	39	43	ND			0000 2359	
1699.40	262	E	CORUNA RADIO	E	008W27 43N22	370	CP	J3E	19	23	ND			0000 2359	
1699.40	262	G	CORSEWALL LTSN	G	005W10 55N01	150	OT	J3E	3	7	ND			0000 2359	
1699.40	262	GRC	PIRAEUS	GRC	023E40 37N58	370	CO	J3E	19	23	ND			0000 2359	
1699.40	262	I	TRIESTE RADIO	I	013E46 45N40	400	CP	J3E	21	25	ND			0000 2359	
1699.40	262	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1699.40	262	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1699.40	262	OMA	RAYSUT	OMA	054E00 16N57	400	CO	J3E	41	45	ND			0000 2359	
1699.40	262	TUN	SFAX RADIO 2 MDN	TUN	010E44 34N44	400	CO	J3E	21	25	ND			0600 2359	
1699.40	262	TUR	MERSIN	TUR	034E36 36N49	250	CP	J3E	10	14	ND			0000 2359	
1699.40	262	URS	BERDIANSK	UKR	036E48 46N47	400	CO	J3E	21	25	ND			0000 2359	
1699.40	262	URS	JDANOV	UKR	037E31 47N08	400	CO	J3E	21	25	ND			0000 2359	
1699.40	262	URS	LENINGRAD	URS	030E21 59N59	400	CO	J3E	21	25	ND			0000 2359	
1699.40	262	URS	LIEPAIA	URS	021E02 56N43	400	CO	J3E	21	25	ND			0000 2359	
1699.40	262	URS	PIARNU	URS	024E33 58N23	110	CO	J3E	0	4	ND			0000 2359	
1702.40	263	AFS	LUDERITZ	NMB	015E04 26S38	400	CP	J3E	41	45	ND			0000 2359	
1702.40	263	ALG	SKIKDA RADIO	ALG	006E54 36N53	100	CO	J3E	-1	3	ND			0000 2359	
1702.40	263	G	MILLTOWN	G	003W14 57N40	270	CO	J3E	12	16	ND			0000 2359	
1702.40	263	GRC	RHODOS	GRC	028E12 36N26	370	CP	J3E	19	23	ND			0000 2359	
1702.40	263	HOL	OUDDORP	HOL	003E53 51N48	180	CP	J3E	5	9	ND			0000 2359	
1702.40	263	I	ROMA	I	012E22 41N59	220	CO	J3E	8	12	ND			0000 2359	
1702.40	263	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1702.40	263	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1702.40	263	POL	MECHELINKI	POL	018E31 54N36	400	OT	J3E	21	25	ND			0000 2359	
1702.40	263	POR	PORTIMAO	POR	008W38 37N10	200	OT	J3E	7	11	ND			0000 2359	
1702.40	263	ROU	SULINA	ROU	029E39 45N09	250	OT	J3E	10	14	ND			0000 2359	
1705.40	264	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	J3E	21	25	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1705.40	264	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1705.40	264	DNK	LYNGBY	DNK	011E25 55N50	350	CP	J3E	17	21	ND			0000 2359	
1705.40	264	E	TARIFA RADIO	E	005W33 36N03	370	CP	J3E	19	23	ND			0000 2359	
1705.40	264	F	LORIENT	F	003W27 47N44	400	CO	J3E	21	25	ND			0000 2359	
1705.40	264	G	INCHKEITH LSTN	G	003W08 56N02	150	OT	J3E	3	7	ND			0000 2359	
1705.40	264	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1705.40	264	ROU	CONSTANTA	ROU	028E37 44N06	200	OT	J3E	7	11	ND			0000 2359	
1705.40	264	URS	FORT SHEVTCHENKO	URS	050E18 44N30	400	CP	J3E	21	25	ND			0000 2359	
1705.40	264	URS	KANDALAKCHA	URS	032E29 67N10	400	CP	J3E	21	25	ND			0000 2359	
1705.40	264	YUG	DUBROVNIK	YUG	018E07 42N38	300	CP	J3E	14	18	ND			0000 2359	
1708.40	265	ALG	ANNABA RADIO	ALG	007E45 36N54	400	CP	J3E	21	25	ND			0000 2359	
1708.40	265	DNK	LYNGBY	DNK	011E25 55N50	350	CP	J3E	17	21	ND			0000 2359	
1708.40	265	E	MACHICHACO RADIO	E	002W45 43N27	370	CP	J3E	19	23	ND			0000 2359	
1708.40	265	F	DZAOUDZI	MYT	045E17 12S48	400	CP	J3E	41	45	ND			0000 2359	
1708.40	265	F	S DENIS	REU	055E36 20S54	400	CP	J3E	41	45	ND			0000 2359	
1708.40	265	FNL	VAASA	FNL	021E09 63N19	300	CP	J3E	14	18	ND			0000 2359	
1708.40	265	G	CLYDE COASTGUARD	G	004W48 55N49	180	OT	J3E	5	9	ND			0000 2359	
1708.40	265	G	NORTH FORELAND RADIO	G	001E25 51N22	120	CP	J3E	1	5	ND			0000 2359	
1708.40	265	GRC	SPATA ATTIKIS	GRC	023E55 37N58	370	CO	J3E	19	23	ND			0000 2359	
1708.40	265	I	VENEZIA RADIO	I	012E21 45N26	400	CP	J3E	21	25	ND			0000 2359	
1708.40	265	KEN	MOMBASA RADIO	KEN	039E44 03S58	400	CP	J3E	41	45	ND			0000 2359	
1708.40	265	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1708.40	265	QAT	DOHA	QAT	051E35 25N45	400	CP	J3E	41	45	ND			0000 2359	
1711.40	266	AFS	LUDERITZ	NMB	015E04 26S38	400	CP	J3E	41	45	ND			0000 2359	
1711.40	266	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1711.40	266	CYP	CYPRUS RADIO	CYP	033E17 35N03	300	CP	J3E	14	18	ND			0000 2359	
1711.40	266	F	ARCACHON	F	001W10 44N39	400	CP	J3E	21	25	ND			0000 2359	
1711.40	266	G	PORTPATRICK RADIO	G	005W07 54N51	240	CP	J3E	10	14	ND			0000 2359	
1711.40	266	HOL	VLISSINGEN	HOL	003E37 51N27	100	CP	J3E	-1	3	ND			0000 2359	
1711.40	266	I	TRAPANI RADIO	I	012E30 38N01	400	CP	J3E	21	25	ND			0000 2359	
1711.40	266	LBY	TOBRUK RADIO	LBY	023E59 32N02	200	CV	J3E	7	11	ND			0000 2359	
1711.40	266	MOZ	BEIRA RADIO	MOZ	034E54 19S51	400	CP	J3E	41	45	ND			0000 2359	
1711.40	266	MRC	LAAYOUNE	MRC	013W13 27N10	400	CP	J3E	41	45	ND			0000 2359	
1711.40	266	NOR	BODOE	NOR	012E37 66N01	180	CP	J3E	5	9	ND			0800 1800	
1711.40	266	POR	LISBOA	POR	009W13 38N43	150	CV	J3E	3	7	ND			0000 2359	
1711.40	266	S	GOETEBORG RADIO	S	011E56 57N28	400	CP	J3E	21	25	ND			0000 2359	
1711.40	266	URS	IALTA	UKR	034E10 44N39	400	CO	J3E	21	25	ND			0000 2359	
1711.40	266	URS	KERTCH	UKR	036E28 45N22	280	CO	J3E	13	17	ND			0000 2359	
1711.40	266	URS	SEVASTOPOL	UKR	033E32 44N34	230	CO	J3E	9	13	ND			0000 2359	
1711.40	266	URS	MURMANSK	URS	033E10 68N58	400	CO	J3E	21	25	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1714.40	267	AOE	EL AAIUN	AOE	013W18 27N10	100	CV	J3E	19	23	ND			0000 2359	
1714.40	267	E	CHIPIONA RADIO	E	006W25 36N42	370	CP	J3E	19	23	ND			0000 2359	
1714.40	267	G	RUBHA REIDH LTSN	G	005W49 57N51	150	OT	J3E	3	7	ND			0000 2359	
1714.40	267	G	ST EVAL	G	005W00 50N28	270	CO	J3E	12	16	ND			0000 2359	
1714.40	267	HOL	NES	HOL	006E04 53N24	400	CP	J3E	21	25	ND			0000 2359	
1714.40	267	I	GENOVA RADIO	I	008E56 44N25	400	CP	J3E	21	25	ND			0000 2359	
1714.40	267	ISL	SIGLUFJORDUR RADIO	ISL	015W56 66N27	400	CP	J3E	21	25	ND			0000 2359	
1714.40	267	ISL	VESTMANNAEYJAR RADIO	ISL	020W16 23N26	400	CP	J3E	41	45	ND			0000 2359	
1714.40	267	LBY	BENGHAZI RADIO	LBY	020E04 32N07	400	CP	J3E	21	25	ND			0000 2359	
1714.40	267	MOZ	MAPUTO RADIO	MOZ	032E37 26S05	400	CP	J3E	41	45	ND			0000 2359	
1714.40	267	POL	SWARZEWO	POL	018E24 54N46	400	OT	J3E	21	25	ND			0000 2359	
1714.40	267	QAT	DOHA	QAT	051E35 25N45	400	CP	J3E	41	45	ND			0000 2359	
1714.40	267	TUN	GABES RADIO	TUN	010E07 33N45	300	CP	J3E	14	18	ND			0600 1900	
1714.40	267	URS	BAKU	URS	049E45 40N20	400	CP	J3E	21	25	ND			0000 2359	
1717.40	268	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1717.40	268	E	CABO PENAS	E	005W50 43N39	400	CP	J3E	21	25	ND			0000 2359	
1717.40	268	HOL	SCHEVENINGEN	HOL	004E15 52N06	400	CP	J3E	21	25	ND			0000 2359	
1717.40	268	I	CAGLIARI RADIO	I	009E07 39N15	400	CP	J3E	21	25	ND			0000 2359	
1717.40	268	I	TRIESTE RADIO	I	013E46 45N40	400	CP	J3E	21	25	ND			0000 2359	
1717.40	268	NOR	HORTEN	NOR	010E29 59N25	100	CO	J3E	-1	3	ND			0000 2359	
1717.40	268	QAT	DOHA	QAT	051E35 25N45	400	CP	J3E	41	45	ND			0000 2359	
1717.40	268	URS	ILITCHEVSK	UKR	030E41 46N19	400	CO	J3E	21	25	ND			0000 2359	
1717.40	268	URS	IZMAIL	UKR	028E51 45N20	280	CO	J3E	13	17	ND			0000 2359	
1717.40	268	URS	ODESSA	UKR	030E45 46N29	280	CO	J3E	13	17	ND			0000 2359	
1717.40	268	URS	KALININGRAD	URS	020E30 54N45	400	CO	J3E	21	25	ND			0000 2359	
1717.40	268	URS	KLAIPEDA	URS	021E12 55N46	400	CP	J3E	21	25	ND			0000 2359	
1717.40	268	URS	VILKOVO	URS	029E36 45N25	400	CO	J3E	21	25	ND			0000 2359	
1720.40	269	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	J3E	21	25	ND			0000 2359	
1720.40	269	BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	J3E	21	25	ND			0000 2359	
1720.40	269	DDR	RUEGEN	DDR	013E37 54N35	400	CP	J3E	21	25	ND			0000 2359	
1720.40	269	E	TENERIFE RADIO	CNR	016W20 28N25	370	CP	J3E	39	43	ND			0000 2359	
1720.40	269	FNL	HAILUOTO	FNL	024E35 65N02	300	CP	J3E	14	18	ND			0000 2359	
1720.40	269	NOR	FLOROE	NOR	005E00 61N36	370	CP	J3E	19	23	ND			0800 1800	
1720.40	269	TUN	C BLANC	TUN	009E50 37N20	50	CO	J3E	-8	-4	ND			0000 2359	
1720.40	269	URS	ASTRAKHAN	URS	047E42 46N55	400	CO	J3E	21	25	ND			0000 2359	
1720.40	269	YUG	BAR	YUG	019E06 42N01	300	CP	J3E	14	18	ND			0000 2359	
1723.40	270	ALG	TENES RADIO	ALG	001E18 36N32	400	CP	J3E	21	25	ND			0000 2359	
1723.40	270	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1723.40	270	DDR	RUEGEN	DDR	013E37 54N35	400	CP	J3E	21	25	ND			0000 2359	
1723.40	270	F	S NAZAIRE	F	002W06 47N20	400	CP	J3E	21	25	ND			0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting coast station name
5	Symbol of the country or geographical area in which the station is located
6	Longitud and latitude of the transmitting station
7	Service range (km)
8	Nature of service
9	Class of emission
10A	Necessary transmitting power: Effective monopole radiated power (e.m.r.p.) (dBW)
10B	Necessary transmitting power: Power supplied to the antenna transmission line (dBW)
11A	Antenna characteristics: Azimuth of maximum radiation (degrees)
11B	Antenna characteristics: Maximum antenna gain (dB)
11C	Antenna characteristics: Angular width of the main lobe (degrees)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1723.40	270	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	J3E	10	14	ND			0000 2359	
1723.40	270	I	LA SPEZIA	I	009E43 44N06	220	CO	J3E	8	12	ND			0000 2359	
1723.40	270	JOR	AQABA RADIO	JOR	034E59 29N33	400	CP	J3E	41	45	ND			0000 2359	
1723.40	270	KWT	RAS ALZOOR	KWT	048E56 28N28	400	CP	J3E	41	45	ND			0300 2100	
1723.40	270	MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	J3E	21	25	ND			0000 2359	
1723.40	270	MRC	ESSAOUIRA	MRC	009W46 31N38	400	CP	J3E	21	25	ND			0000 2359	
1723.40	270	NOR	BJOERNOEYA	NOR	019E01 74N31	370	CP	J3E	19	23	ND			0000 2359	
1723.40	270	OMA	SALALAH	OMA	054E06 17N01	400	CO	J3E	41	45	ND			0000 2359	
1723.40	270	URS	GELENDJIK	URS	038E06 44N35	400	OT	J3E	21	25	ND			0000 2359	
1723.40	270	URS	TALLIN	URS	024E46 59N24	400	CP	J3E	21	25	ND			0000 2359	
1726.40	271	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	J3E	21	25	ND			0000 2359	
1726.40	271	BEL	OOSTENDE RADIO	BEL	002E48 51N11	400	CP	J3E	21	25	ND			0000 2359	
1726.40	271	E	TENERIFE RADIO	CNR	016W20 28N25	370	CP	J3E	39	43	ND			0000 2359	
1726.40	271	G	STORNOWAY COASTGUARD	G	006W21 58N13	180	OT	J3E	5	9	ND			0000 2359	
1726.40	271	GRC	HERAKLION	GRC	025E45 35N19	370	CP	J3E	19	23	ND			0000 2359	
1726.40	271	I	NAPOLI RADIO	I	014E14 40N50	400	CP	J3E	21	25	ND			0000 2359	
1726.40	271	KWT	RAS ALZOOR	KWT	047E56 28N28	400	CP	J3E	41	45	ND			0300 2100	
1726.40	271	NOR	ROERVIK	NOR	011E12 64N50	180	CP	J3E	5	9	ND			0000 2359	
1726.40	271	NOR	ROGALAND	NOR	005E05 59N26	180	CP	J3E	5	9	ND			0800 1800	
1726.40	271	POR	S MIGUEL	AZR	025W39 37N45	250	CP	J3E	10	14	ND			0000 2359	
1726.40	271	URS	EISK	URS	038E15 46N41	400	CO	J3E	21	25	ND			0000 2359	
1726.40	271	URS	KRASNODAR	URS	039E01 45N03	400	CO	J3E	21	25	ND			0000 2359	
1726.40	271	URS	RIGA	URS	024E05 56N57	200	CO	J3E	7	11	ND			0000 2359	
1726.40	271	URS	SALACGRIVA	URS	024E21 57N45	190	CO	J3E	6	10	ND			0000 2359	
1726.40	271	URS	SOTCHI	URS	039E45 43N36	400	CO	J3E	21	25	ND			0000 2359	
1726.40	271	URS	TEMRIUK	URS	037E24 45N17	400	CO	J3E	21	25	ND			0000 2359	
1729.40	272	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	J3E	21	25	ND			0000 2359	
1729.40	272	E	TARIFA RADIO	E	005W33 36N03	370	CP	J3E	19	23	ND			0000 2359	
1729.40	272	EGY	KOSSEIR RADIO	EGY	034E17 26N06	300	CP	J3E	34	38	ND			0400 2200	
1729.40	272	ETH	MASSAWA	ETH	039E21 15N37	200	CP	J3E	27	31	ND			0000 2359	
1729.40	272	FNL	HANKO	FNL	022E57 59N50	400	CP	J3E	21	25	ND			0000 2359	
1729.40	272	I	PORTO TORRES RADIO	I	008E23 40N50	400	CP	J3E	21	25	ND			0000 2359	
1729.40	272	KWT	RAS ALZOOR	KWT	048E56 28N28	400	CP	J3E	41	45	ND			0300 2100	
1729.40	272	MRC	DAKHLA	MRC	015W56 23N42	400	CP	J3E	41	45	ND			0000 2359	
1729.40	272	NOR	BERGEN	NOR	005E22 60N25	100	CO	J3E	-1	3	ND			0000 2359	
1729.40	272	NOR	HAMMERFEST	NOR	023E41 70N41	370	CP	J3E	19	23	ND			0000 2359	
1729.40	272	TUR	ANTALYA	TUR	030E42 36N53	250	CP	J3E	10	14	ND			0000 2359	
1729.40	272	URS	TCHERNOMORSKOE	UKR	032E43 45N30	190	CO	J3E	6	10	ND			0000 2359	
1732.40	273	E	CABO DE LA NAO RADIO	E	000E11 38N43	370	CP	J3E	19	23	ND			0000 2359	
1732.40	273	G	CULLERCOATS RADIO	G	001W28 55N04	320	CP	J3E	15	19	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1732.40	273	I	NAPOLI	I	014E14 40N42	220	CO	J3E	8	12	ND			0000 2359	
1732.40	273	LBY	TRIPOLI	LBY	013E11 32N54	300	CP	J3E	14	18	ND			0000 2359	
1732.40	273	NOR	BODOE	NOR	015E58 68N24	180	CP	J3E	5	9	ND			0800 1800	
1732.40	273	NOR	SVALBARD	NOR	013E38 78N04	370	CP	J3E	19	23	ND			0800 1800	
1732.40	273	POL	LEBA	POL	017E32 54N44	350	CV	J3E	17	21	ND			0000 2359	
1732.40	273	TUR	ISTANBUL	TUR	028E56 41N04	400	CP	J3E	21	25	ND			0000 2359	
1732.40	273	UAE	DUBAI	UAE	055E16 25N14	100	CV	J3E	19	23	ND			0000 2359	
1732.40	273	URS	KRASNOVODSK	URS	052E57 40N00	400	CP	J3E	21	25	ND			0000 2359	
1735.40	274	ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	J3E	21	25	ND			0000 2359	
1735.40	274	COG	POINTE NOIRE RADIO	COG	011E51 04S44	400	CP	J3E	41	45	ND			0000 2359	
1735.40	274	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	J3E	17	21	ND			0000 2359	
1735.40	274	F	BREST	F	004W14 48N26	350	CO	J3E	17	21	ND			0000 2359	
1735.40	274	GRC	ASPROPYRGOS	GRC	023E35 38N02	370	CO	J3E	19	23	ND			0000 2359	
1735.40	274	I	ANCONA RADIO	I	013E28 43N36	200	CP	J3E	7	11	ND			0000 2359	
1735.40	274	KWT	RAS ALZOOR	KWT	048E56 28N28	400	CP	J3E	41	45	ND			0300 2100	
1735.40	274	TUR	MERSIN	TUR	034E36 36N49	250	CP	J3E	10	14	ND			0000 2359	
1735.40	274	URS	LENINGRAD	URS	030E21 59N59	400	CP	J3E	21	25	ND			0000 2359	
1735.40	274	URS	TALLIN	URS	024E46 59N24	400	CO	J3E	21	25	ND			0000 2359	
1738.40	275	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	J3E	21	25	ND			0000 2359	
1738.40	275	BUL	AHTOPOL RADIO	BUL	027E12 42N05	400	CO	J3E	21	25	ND			0000 2359	
1738.40	275	E	TENERIFE RADIO	CNR	016W20 28N25	370	CP	J3E	39	43	ND			0000 2359	
1738.40	275	EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	400	CP	J3E	21	25	ND			0000 2359	
1738.40	275	F	DUNKERQUE	F	002E20 51N03	150	CO	J3E	3	7	ND			0000 2359	
1738.40	275	I	GENOVA RADIO	I	008E56 44N25	200	CP	J3E	7	11	ND			0000 2359	
1738.40	275	MLT	MALTA RADIO	MLT	014E24 35N52	400	CP	J3E	21	25	ND			0000 2359	
1738.40	275	NOR	AALESUND	NOR	007E42 63N07	370	CP	J3E	19	23	ND			0800 1800	
1738.40	275	NOR	NY-AALESUND	NOR	011E55 78N55	370	CP	J3E	19	23	ND			0000 2359	
1738.40	275	NOR	STAVANGER	NOR	005E34 58N04	370	CO	J3E	19	23	ND			0000 2359	
1738.40	275	NOR	VARDOE	NOR	031E05 70N22	370	CP	J3E	19	23	ND			0000 2359	
1738.40	275	OMA	SUR	OMA	059E28 22N32	400	CO	J3E	41	45	ND			0000 2359	
1738.40	275	POL	HEL	POL	018E48 54N36	350	CV	J3E	17	21	ND			0000 2359	
1738.40	275	UAE	RASALKHAIMA	UAE	055E52 25N38	150	CV	J3E	23	27	ND			0000 2359	
1738.40	275	URS	TEMRIUK	URS	037E24 45N17	90	OT	J3E	-2	2	ND			0000 2359	
1741.40	276	ALB	DURRES PT RADIO	ALB	019E26 41N27	150	CP	J3E	3	7	ND			0000 2359	
1741.40	276	ALG	TENES RADIO	ALG	001E18 36N32	400	CP	J3E	21	25	ND			0000 2359	
1741.40	276	G	ILFRACOMBE RADIO	G	004W07 51N11	160	CP	J3E	4	8	ND			0000 2359	
1741.40	276	GRC	HERAKLION	GRC	025E45 35N19	370	CP	J3E	19	23	ND			0000 2359	
1741.40	276	HOL	HOEK VAN HOLLAND	HOL	004E07 52N00	100	CP	J3E	-1	3	ND			0000 2359	
1741.40	276	MRC	ESSAOUIRA	MRC	009W46 31N38	400	CP	J3E	21	25	ND			0000 2359	
1741.40	276	NOR	SVALBARD	NOR	013E38 78N04	370	CP	J3E	19	23	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1741.40	276	POL	USTKA	POL	016E52 54N34	350	CV	J3E	17	21	ND			0000 2359	
1741.40	276	POR	AVEIRO	POR	008W45 40N40	200	OT	J3E	7	11	ND			0000 2359	
1741.40	276	TUN	KELIBIA RADIO	TUN	011E05 36N50	190	CP	J3E	6	10	ND			0600 1900	
1741.40	276	URS	ODESSA	UKR	030E45 46N29	400	OT	J3E	21	25	ND			0000 2359	
1741.40	276	URS	GURIEV	URS	051E55 47N03	400	CP	J3E	21	25	ND			0000 2359	
1741.40	276	URS	MURMANSK	URS	033E10 68N58	400	CP	J3E	21	25	ND			0000 2359	
1744.40	277	CVA	CITE DU VATICAN	CVA	012E27 41N55	400	OT	J3E	21	25	ND			0000 2359	
1744.40	277	G	HEBRIDES RADIO	G	007W02 58N14	320	CP	J3E	15	19	ND			0000 2359	
1744.40	277	G	GIBRALTAR	GIB	005W21 36N07	200	CP	J3E	7	11	ND			0000 2359	
1744.40	277	G	ST HELENA	SHN	005W43 15S56	300	CP	J3E	34	38	ND			0000 2359	
1744.40	277	GRC	MOURNIES KRITIS	GRC	024E01 35N29	370	CO	J3E	19	23	ND			0000 2359	
1744.40	277	HOL	DEN HELDER	HOL	004E45 52N55	180	CP	J3E	5	9	ND			0000 2359	
1744.40	277	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1744.40	277	NOR	HAMMERFEST	NOR	021E00 70N02	370	CP	J3E	19	23	ND			0800 1800	
1744.40	277	NOR	JAN MAYEN	NOR	008W40 70N57	370	CP	J3E	19	23	ND			0000 2359	
1744.40	277	POL	GDANSK	POL	018E40 54N22	400	CO	J3E	21	25	ND			0000 2359	
1744.40	277	TUN	SFAX	TUN	010E46 34N44	100	CR	J3E	-1	3	ND			0000 2359	
1744.40	277	URS	ARKHANGHELSK	URS	040E37 64N36	370	CO	J3E	19	23	ND			0000 2359	
1744.40	277	URS	ROSTOV-NA-DONU	URS	039E40 47N16	400	CO	J3E	21	25	ND			0000 2359	
1744.40	277	URS	TAGANROG	URS	038E53 47N13	400	CO	J3E	21	25	ND			0000 2359	
1747.40	278	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	J3E	21	25	ND			0000 2359	
1747.40	278	F	GRASSE	F	006E55 43N40	400	CP	J3E	21	25	ND			0000 2359	
1747.40	278	FNL	HELSINKI	FNL	025E02 60N09	300	CP	J3E	14	18	ND			0000 2359	
1747.40	278	GRC	KERKYRA	GRC	019E54 39N37	370	CP	J3E	19	23	ND			0000 2359	
1747.40	278	HOL	TERSCHELLING LSTN	HOL	005E13 53N22	300	CP	J3E	14	18	ND			0000 2359	
1747.40	278	IRL	VALENTIA	IRL	010W21 51N56	370	CP	J3E	19	23	ND			0000 2359	
1747.40	278	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1747.40	278	NOR	AALESUND	NOR	006E12 62N28	370	CP	J3E	19	23	ND			0000 2359	
1747.40	278	TUR	ZONGULDAV	TUR	031E48 41N27	250	CP	J3E	10	14	ND			0000 2359	
1747.40	278	URS	MEZEN	URS	044E17 65N51	400	CP	J3E	21	25	ND			0000 2359	
1750.40	279	AFS	LUDERITZ	NMB	015E04 26S38	400	CP	J3E	41	45	ND			0000 2359	
1750.40	279	G	AILSA CRAIG LTSN	G	005W06 55N15	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	BARDSEY LSTN	G	000E24 51N39	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	BASS RCK LSTN	G	002W38 56N05	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	BELL RCK LSTN	G	002W23 56N26	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	BUTT OF LEWIS LTSN	G	006W16 58N31	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	CALF OF MAN LTSN	G	004W50 54N03	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	COPINSAY LTSN	G	002W40 58N54	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	DUNCANSBY HD LSTN	G	003W01 58N39	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	EAST GOODWIN LSTN	G	001E36 51N13	150	OT	J3E	3	7	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1750.40	279	G	HYSKEIR LTSN	G	006W41 56N58	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	I OF MAY LSTN	G	002W33 56N11	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	MUCKLE FLUGGA LTSN	G	000W53 60N51	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	N RONALDSAY LTSN	G	002W23 59N23	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	NORTH GOODWIN LSTN	G	001E34 51N20	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	OBAN DEPOT	G	005W29 56N25	150	OT	J3E	3	7	ND			0900 1700	
1750.40	279	G	PENTLAND SKERRIES	G	002W55 58N41	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	PLADDA LTSN	G	005W07 55N26	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	RINNS OF ISLAY LTSN	G	006W31 55N40	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	S ABBS LSTN	G	002W08 55N55	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SANDA LTSN	G	005W35 55N17	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SKERRIES LSTN	G	004W36 53N25	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SKERRYVORE LTSN	G	007W07 56N19	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SKOKHOLM LSTN	G	005W17 51N41	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SMALLS LSTN	G	005W40 51N43	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SOUTH BISHOP LSTN	G	005W24 51N51	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	SOUTH GOODWIN LSTN	G	001E28 51N07	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	STROMA LTSN	G	003W07 58N42	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	STROMNESS	G	003W18 58N58	150	OT	J3E	3	7	ND			0900 1700	
1750.40	279	G	TONGUE LSTN	G	001E23 51N30	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	G	TURNBERRY	G	004W50 55N19	150	OT	J3E	3	7	ND			0900 1700	
1750.40	279	G	VARNE LSTN	G	001E24 51N01	150	OT	J3E	3	7	ND			0000 2359	
1750.40	279	GRC	LIMNOS	GRC	025E11 39N54	370	CP	J3E	19	23	ND			0000 2359	
1750.40	279	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1750.40	279	MCO	MONACO RADIO	MCO	007E25 43N43	400	CP	J3E	21	25	ND			0000 2359	
1750.40	279	MRC	NADOR	MRC	002W56 35N10	400	CP	J3E	21	25	ND			0000 2359	
1750.40	279	POL	DZIWNOW	POL	014E44 54N01	400	CV	J3E	21	25	ND			0000 2359	
1750.40	279	TUN	TUNIS RADIO 2 MDN	TUN	010E11 36N53	400	CO	J3E	21	25	ND			0000 2359	
1750.40	279	TUR	ISKENDERUN	TUR	036E07 36N37	250	CP	J3E	10	14	ND			0000 2359	
1750.40	279	URS	BAKU	URS	049E45 40N20	400	CO	J3E	21	25	ND			0000 2359	
1753.40	280	D	NORDDEICH RADIO	D	007E12 53N38	400	CP	J3E	21	25	ND			0000 2359	
1753.40	280	E	MACHICHACO RADIO	E	002W45 43N27	370	CP	J3E	19	23	ND			0000 2359	
1753.40	280	EGY	ALEXANDRIA RADIO	EGY	029E52 31N12	400	CP	J3E	21	25	ND			0000 2359	
1753.40	280	FNL	HANKO	FNL	022E57 59N50	400	CP	J3E	21	25	ND			0000 2359	
1753.40	280	I	ANCONA	I	013E31 43N37	380	CO	J3E	20	24	ND			0000 2359	
1753.40	280	IRL	VALENTIA	IRL	010W21 51N56	370	CP	J3E	19	23	ND			0000 2359	
1753.40	280	IRQ	BASRAH	IRQ	047E47 30N33	400	CR	J3E	21	25	ND			0000 2359	
1753.40	280	LBY	TRIPOLI RADIO	LBY	013E11 32N54	400	CP	J3E	21	25	ND			0000 2359	
1753.40	280	TUR	CANAKKALE	TUR	026E24 40N08	250	CP	J3E	10	14	ND			0000 2359	
1756.40	281	CME	LIMBE	CME	009E22 04N02	400	CP	J3E	41	45	ND			0700 1900	

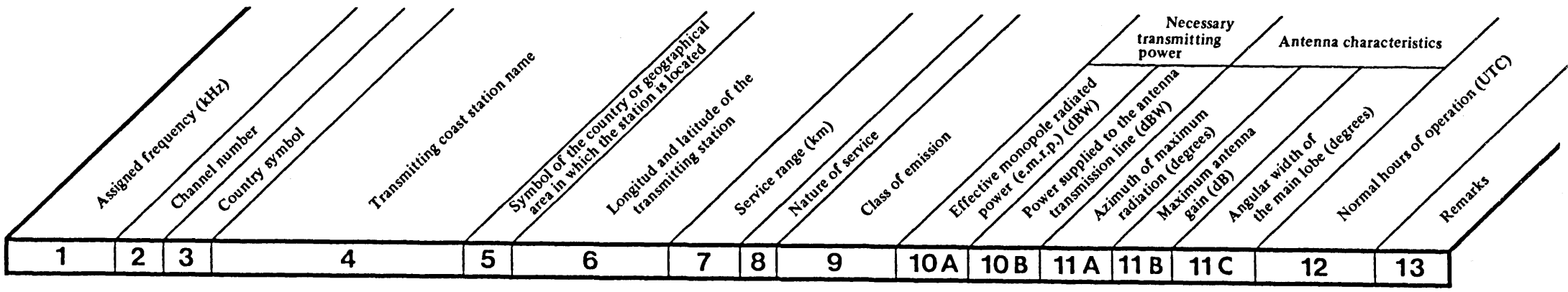
1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
									Necessary transmitting power		Antenna characteristics				
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1756.40	281	E	PALMA DE MALLORCA	E	002W43 39N32	370	CP	J3E	19	23	ND			0000 2359	
1756.40	281	G	HUMBER RADIO	G	000E17 53N20	160	CP	J3E	4	8	ND			0000 2359	
1756.40	281	G	PORTPATRICK RADIO	G	005W07 54N51	240	CP	J3E	10	14	ND			0000 2359	
1756.40	281	G	STONEHAVEN RADIO	G	002W13 56N57	240	CP	J3E	10	14	ND			0000 2359	
1756.40	281	G	WICK RADIO	G	003W06 58N26	320	CP	J3E	15	19	ND			0000 2359	
1756.40	281	I	TRAPANI RADIO	I	012E30 38N01	400	CP	J3E	21	25	ND			0000 2359	
1756.40	281	ISL	SIGLUFJORDUR RADIO	ISL	018W57 66N11	400	CP	J3E	21	25	ND			0000 2359	
1756.40	281	MRC	AGADIR RADIO	MRC	009W33 30N22	400	CP	J3E	21	25	ND			0000 2359	
1756.40	281	POL	MIEDZYWODZIE	POL	014E42 54N01	400	OT	J3E	21	25	ND			0000 2359	
1756.40	281	UAE	BADA HAMAMA	UAE	052E45 24N15	280	CV	J3E	33	37	ND			0000 2359	
1756.40	281	URS	ARKHANGHELSK	URS	040E37 64N36	400	OT	J3E	21	25	ND			0000 2359	
1756.40	281	YEM	ALAHMADI	YEM	042E54 14N55	400	CP	J3E	41	45	ND			0000 2359	
1759.40	282	ALB	SHENGJIN RADIO	ALB	019E35 41N49	200	CP	J3E	7	11	ND			0000 2359	
1759.40	282	ALB	VLORA PT RADIO	ALB	019E29 40N27	150	CP	J3E	3	7	ND			0000 2359	
1759.40	282	ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	J3E	21	25	ND			0000 2359	
1759.40	282	DNK	SKAGEN	DNK	010E34 57N44	350	CP	J3E	17	21	ND			0000 2359	
1759.40	282	DNK	TORSHAVN	DNK	006W47 62N01	350	CP	J3E	17	21	ND			0000 2359	
1759.40	282	E	FINISTERRE RADIO	E	009W16 42N54	370	CP	J3E	19	23	ND			0000 2359	
1759.40	282	FNL	VAASA RV	FNL	021E43 63N05	300	CO	J3E	14	18	ND			0000 2359	
1759.40	282	G	NITON RADIO	G	001W18 50N35	320	CP	J3E	15	19	ND			0000 2359	
1759.40	282	ROU	CONSTANTA	ROU	028E37 44N06	250	OT	J3E	10	14	ND			0000 2359	
1759.40	282	UAE	SHARJAH	UAE	055E17 25N22	200	CV	J3E	27	31	ND			0700 2000	
1759.40	282	URS	MAKHATCHKALA	URS	047E30 42N59	400	CO	J3E	21	25	ND			0000 2359	
1759.40	282	URS	NOVOROSSIISK	URS	037E42 44N42	90	CO	J3E	-2	2	ND			0000 2359	
1762.40	283	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	J3E	21	25	ND			0000 2359	
1762.40	283	CME	DOUALA	CME	009E43 04N01	400	CV	J3E	41	45	ND			0000 2359	
1762.40	283	E	ARRECIFE RADIO	CNR	013W31 29N08	370	CP	J3E	39	43	ND			0000 2359	
1762.40	283	E	CORUNA RADIO	E	008W27 43N22	370	CP	J3E	19	23	ND			0000 2359	
1762.40	283	G	HUMBER RADIO	G	000E17 53N20	160	CP	J3E	4	8	ND			0000 2359	
1762.40	283	I	CROTONE RADIO	I	017E08 39N03	400	CP	J3E	21	25	ND			0000 2359	
1762.40	283	I	LIVORNO RADIO	I	010E11 43N29	200	CP	J3E	7	11	ND			0000 2359	
1762.40	283	ISL	NESKAUPSSTADUR RADIO	ISL	013W42 65N09	400	CP	J3E	21	25	ND			0000 2359	
1762.40	283	MTN	NOUAKCHOTT RADIO	MTN	015W58 18N06	400	CP	J3E	41	45	ND			0000 2359	
1762.40	283	POL	SWINOUJSCIE	POL	014E15 53N52	400	OT	J3E	21	25	ND			0000 2359	
1762.40	283	UAE	SHARJAH	UAE	055E17 25N22	150	CV	J3E	23	27	ND			0000 2359	
1762.40	283	URS	ROSTOV-NA-DONU	URS	039E40 47N16	400	CO	J3E	21	25	ND			0000 2359	
1765.40	284	AFS	LUDERITZ	NMB	015E04 26S38	400	CP	J3E	41	45	ND			0000 2359	
1765.40	284	ALG	ALGER RADIO	ALG	003E18 36N40	400	CP	J3E	21	25	ND			0000 2359	
1765.40	284	DNK	ROENNE	DNK	015E07 55N03	350	CP	J3E	17	21	ND			0000 2359	
1765.40	284	E	FINISTERRE RADIO	E	009W16 42N54	370	CP	J3E	19	23	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1765.40	284	G	GUERNSEY RADIO	G	002W31 49N27	150	CP	J3E	3	7	ND			0000 2359	
1765.40	284	G	WICK RADIO	G	003W06 58N26	320	CP	J3E	15	19	ND			0000 2359	
1765.40	284	GHA	TAKORADI	GHA	001W45 04N54	400	CP	J3E	41	45	ND			0000 2359	
1765.40	284	I	CROTONE RADIO	I	017E08 39N03	400	CP	J3E	21	25	ND			0000 2359	
1765.40	284	MRC	EL JADIDA RADIO	MRC	008W40 33N07	300	CP	J3E	14	18	ND			0000 2359	
1765.40	284	ROU	SULINA	ROU	029E39 45N09	400	CP	J3E	21	25	ND			0000 2359	
1765.40	284	UAE	DUBAI	UAE	055E16 25N14	160	CV	J3E	24	28	ND			0000 2359	
1765.40	284	URS	ASTRAKHAN	URS	047E42 46N55	400	CP	J3E	21	25	ND			0000 2359	
1768.40	285	CME	CAMPO	CME	009E51 02N22	400	CP	J3E	41	45	ND			0000 2359	
1768.40	285	DNK	BLAAVAND	DNK	008E07 55N33	350	CP	J3E	17	21	ND			0000 2359	
1768.40	285	E	CABO DE GATA RADIO	E	002W12 36N43	370	CP	J3E	19	23	ND			0000 2359	
1768.40	285	G	LANDS END RADIO	G	005W40 50N07	320	CP	J3E	15	19	ND			0000 2359	
1768.40	285	GRC	ATHINAI	GRC	023E53 38N00	370	CP	J3E	19	23	ND			0000 2359	
1768.40	285	I	TRIESTE RADIO	I	013E46 45N40	400	CP	J3E	21	25	ND			0000 2359	
1768.40	285	MRC	LAAYOUNE	MRC	013W13 27N10	400	CP	J3E	41	45	ND			0000 2359	
1768.40	285	OMA	MUSCAT	OMA	058E30 23N37	400	CO	J3E	41	45	ND			0000 2359	
1768.40	285	S	HAARSFJAERDEN RADIO	S	018E40 58N59	200	CO	J3E	7	11	ND			0000 2359	
1768.40	285	TUN	TUNIS RADIO	TUN	010E11 36N53	400	CP	J3E	21	25	ND			0000 2359	
1768.40	285	UAE	JEBEL DHANNA	UAE	052E38 24N10	200	CV	J3E	27	31	ND			0000 2359	
1768.40	285	URS	BAKU	URS	049E45 40N20	400	OT	J3E	21	25	ND			0000 2359	
1771.40	286	ALG	GHAZAOUET RADIO	ALG	001W52 35N06	400	CP	J3E	21	25	ND			0000 2359	
1771.40	286	CME	CAMPO	CME	009E51 02N22	400	CV	J3E	41	45	ND			0000 2359	
1771.40	286	CTI	ABIDJAN	CTI	003W58 05N21	300	CP	J3E	34	38	ND			0000 2359	
1771.40	286	F	BOULOGNE MER	F	001E38 50N43	400	CP	J3E	21	25	ND			0000 2359	
1771.40	286	G	NORWICK RADIO	G	000W45 60N29	320	CP	J3E	15	19	ND			0000 2359	
1771.40	286	I	MESSINA RADIO	I	015E33 38N11	400	CP	J3E	21	25	ND			0000 2359	
1771.40	286	ISL	REYKJAVIK RADIO	ISL	022W02 64N09	400	CP	J3E	21	25	ND			0000 2359	
1771.40	286	NOR	BODOE	NOR	014E23 67N16	370	CP	J3E	19	23	ND			0000 2359	
1771.40	286	S	KARLSKRONA RADIO	S	015E33 56N11	200	CO	J3E	7	11	ND			0000 2359	
1771.40	286	URS	IALTA	UKR	034E10 44N39	280	CP	J3E	13	17	ND			0000 2359	
1774.40	287	BEL	ANTWERPEN RADIO	BEL	004E19 51N16	400	CP	J3E	21	25	ND			0000 2359	
1774.40	287	BUL	MITCHOURIN RADIO	BUL	027E08 42N09	400	CO	J3E	21	25	ND			0000 2359	
1774.40	287	I	CIVITAVECCHIA RADIO	I	011E49 42N01	400	CP	J3E	21	25	ND			0000 2359	
1774.40	287	KWT	HUBAN	KWT	047E41 29N31	160	CP	J3E	24	28	ND			0000 2359	
1774.40	287	LBY	TOBRUK	LBY	023E59 32N02	400	CP	J3E	21	25	ND			0000 2359	
1774.40	287	MRC	NADOR	MRC	002W56 35N10	400	CP	J3E	21	25	ND			0000 2359	
1774.40	287	NOR	TRONDHEIM	NOR	010E25 63N26	100	CO	J3E	-1	3	ND			0000 2359	
1774.40	287	S	TINGSTAEDE RADIO	S	018E36 57N44	300	CO	J3E	14	18	ND			0000 2359	
1774.40	287	TGO	LOME RADIO	TGO	001E36 06N15	200	CP	J3E	27	31	ND			0715 1930	
1777.40	288	CME	GRAND BATANGA	CME	009E52 02N43	400	CP	J3E	41	45	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
											Necessary transmitting power		Antenna characteristics		
Assigned frequency (kHz)	Channel number	Country symbol	Transmitting coast station name	Symbol of the country or geographical area in which the station is located	Longitud and latitude of the transmitting station	Service range (km)	Nature of service	Class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Power supplied to the antenna transmission line (dBW)	Azimuth of maximum radiation (degrees)	Maximum antenna gain (dB)	Angular width of the main lobe (degrees)	Normal hours of operation (UTC)	Remarks
1777.40	288	CTI	ABIDJAN RADIO	CTI	003W58 05N21	300	CP	J3E	34	38	ND			0000 2359	
1777.40	288	F	BAYONNE	F	001W24 43N16	400	CO	J3E	21	25	ND			0000 2359	
1777.40	288	GRC	RHODOS	GRC	028E12 36N26	370	CP	J3E	19	23	ND			0000 2359	
1777.40	288	HOL	DEN HELDER	HOL	004E45 52N55	360	CP	J3E	18	22	ND			0000 2359	
1777.40	288	I	AUGUSTA RADIO	I	015E13 37N13	400	CP	J3E	21	25	ND			0000 2359	
1777.40	288	POL	MIEDZYZDROJE	POL	014E28 53N56	400	OT	J3E	21	25	ND			0000 2359	
1777.40	288	URS	ASTRAKHAN	URS	047E42 46N55	400	CO	J3E	21	25	ND			0000 2359	
1777.40	288	URS	ASTRAKHAN	URS	047E42 46N55	400	CO	J3E	21	25	ND			0000 2359	
1777.40	288	URS	LENINGRAD	URS	030E21 59N59	400	CO	J3E	21	25	ND			0000 2359	
1777.40	288	URS	MUMRA	URS	047E41 45N45	400	CO	J3E	21	25	ND			0000 2359	
1780.40	289	CME	DOUALA	CME	009E43 04N01	400	CP	J3E	41	45	ND			0000 2359	
1780.40	289	E	CHIPIONA RADIO	E	006W25 36N42	370	CP	J3E	19	23	ND			0000 2359	
1780.40	289	G	CULLERCOATS RADIO	G	001W28 55N04	320	CP	J3E	15	19	ND			0000 2359	
1780.40	289	GRC	KERKYRA	GRC	019E54 39N37	370	CP	J3E	19	23	ND			0000 2359	
1780.40	289	OMA	WUDHAM	OMA	057E33 23N49	400	CO	J3E	41	45	ND			0000 2359	
1780.40	289	POL	DARLOWO	POL	016E25 54N24	400	CV	J3E	21	25	ND			0000 2359	
1780.40	289	S	HAERNOESAND RADIO	S	021E36 64N28	400	CP	J3E	21	25	ND			0000 2359	
1780.40	289	TUN	TABARKA RADIO	TUN	008E45 36N57	300	CP	J3E	14	18	ND			0600 1900	
1780.40	289	URS	NOVOROSSIISK	URS	037E42 44N42	400	CP	J3E	21	25	ND			0000 2359	
1783.40	290	D	CUXHAVEN	D	008E43 53N32	230	CO	J3E	9	13	ND			0000 2359	
1783.40	290	G	ANGLESEY RADIO	G	004W18 53N24	160	CP	J3E	4	8	ND			0000 2359	
1783.40	290	I	LA SPEZIA	I	009E43 44N06	220	CO	J3E	8	12	ND			0000 2359	
1783.40	290	I	MAZARA VALLO RADIO	I	012E34 37N38	400	CP	J3E	21	25	ND			0000 2359	
1783.40	290	KWT	HUBAN	KWT	047E41 29N31	160	CP	J3E	24	28	ND			0000 2359	
1783.40	290	MRC	TANGER RADIO	MRC	005W51 35N44	400	CP	J3E	21	25	ND			0000 2359	
1783.40	290	NOR	OERLANDET	NOR	009E36 63N41	370	CP	J3E	19	23	ND			0000 2359	
1783.40	290	NOR	VARDOE	NOR	029E04 70N52	370	CP	J3E	19	23	ND			0800 1800	
1783.40	290	ROU	TULCEA	ROU	028E50 45N12	400	CP	J3E	21	25	ND			0000 2359	
1783.40	290	URS	KLAIPEDA	URS	021E12 55N46	400	CO	J3E	21	25	ND			0000 2359	
1783.40	290	URS	MAKHATCHKALA	URS	047E30 42N59	400	CO	J3E	21	25	ND			0000 2359	
1786.40	291	CME	KRIBI	CME	009E43 02N53	400	CP	J3E	41	45	ND			0700 1900	
1786.40	291	CYP	CYPRUS RADIO	CYP	033E17 35N03	300	CP	J3E	14	18	ND			0000 2359	
1786.40	291	E	CADIZ	E	006W12 36N15	400	CO	J3E	21	25	ND			0000 2359	
1786.40	291	F	LA PALLICE	F	000W59 45N56	400	CO	J3E	21	25	ND			0000 2359	
1786.40	291	FNL	KOTKA RV	FNL	026E46 60N28	300	CO	J3E	14	18	ND			0000 2359	
1786.40	291	GHA	TAKORADI	GHA	001W45 04N54	400	CP	J3E	41	45	ND			0000 2359	
1786.40	291	I	NAPOLI RADIO	I	014E14 40N50	400	CP	J3E	21	25	ND			0000 2359	
1786.40	291	NOR	FARSUND	NOR	006E45 58N04	370	CP	J3E	19	23	ND			0800 1800	
1789.40	292	D	KIEL RADIO	D	010E08 54N26	400	CP	J3E	21	25	ND			0000 2359	
1789.40	292	F	SETE	F	003E41 43N24	190	CO	J3E	6	10	ND			0000 2359	

1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1789.40	292	G	CLYDE (TOWARD)	G	004W59 55N52	270	CO	J3E	12	16	ND			0000 2359	
1789.40	292	G	PORTLAND	G	002W27 50N31	270	CO	J3E	12	16	ND			0000 2359	
1789.40	292	I	MAZARA VALLO RADIO	I	012E34 37N38	400	CP	J3E	21	25	ND			0000 2359	
1789.40	292	KWT	HUBAN	KWT	047E41 29N31	400	CP	J3E	41	45	ND			0300 2100	
1789.40	292	MRC	TANGER RADIO	MRC	005W51 35N44	400	CP	J3E	21	25	ND			0000 2359	
1789.40	292	URS	JDANOV	UKR	037E31 47N08	400	CP	J3E	21	25	ND			0000 2359	
1789.40	292	URS	BELOMORSK	URS	034E41 64N36	400	CO	J3E	21	25	ND			0000 2359	
1789.40	292	URS	KINGISEPP	URS	022E33 58N15	90	CO	J3E	-2	2	ND			0000 2359	
1792.40	293	ALG	BEJAIA RADIO	ALG	005E05 36N45	400	CP	J3E	21	25	ND			0000 2359	
1792.40	293	CTI	S. PEDRO PORT	CTI	006W37 04N44	200	CR	J3E	27	31	ND			0000 2359	
1792.40	293	DDR	RUEGEN	DDR	013E37 54N35	400	CP	J3E	21	25	ND			0000 2359	
1792.40	293	F	CHERBOURG	F	001W37 49N35	350	CO	J3E	17	21	ND			0000 2359	
1792.40	293	FNL	HAILUOTO RV	FNL	024E39 64N58	300	CO	J3E	14	18	ND			0000 2359	
1792.40	293	G	MORAY COASTGUARD	G	001W46 57N30	180	OT	J3E	5	9	ND			0000 2359	
1792.40	293	GAB	LIBREVILLE	GAB	009E26 00N25	250	CR	J3E	30	34	ND			0600 1800	
1792.40	293	HOL	AMSTERDAM	HOL	004E51 52N22	180	CP	J3E	5	9	ND			0000 2359	
1792.40	293	I	ANCONA RADIO	I	013E28 43N36	200	CP	J3E	7	11	ND			0000 2359	
1792.40	293	POR	ALCANTARA	POR	009W13 38N43	200	CO	J3E	7	11	ND			0000 2359	
1792.40	293	ROU	AGIGEA	ROU	028E39 44N06	400	CP	J3E	21	25	ND			0000 2359	
1795.40	294	ALG	ORAN RADIO	ALG	000W08 35N46	400	CP	J3E	21	25	ND			0000 2359	
1795.40	294	BUL	VARNA RADIO	BUL	027E46 43N04	400	CO	J3E	21	25	ND			0000 2359	
1795.40	294	GAB	LIBREVILLE	GAB	009E26 00N25	250	CR	J3E	30	34	ND			0000 2359	
1795.40	294	GUI	CONAKRY	GUI	013W43 09N31	400	CR	J3E	41	45	ND			0000 2359	
1795.40	294	I	GENOVA RADIO	I	008E56 44N25	200	CP	J3E	7	11	ND			0000 2359	
1795.40	294	IRL	HAULBOWLINE	IRL	008W18 51N50	370	CO	J3E	19	23	ND			0000 2359	
1795.40	294	MLT	XLOKK RADIO	MLT	014E32 35N49	400	CP	J3E	21	25	ND			0000 2359	
1795.40	294	MRC	LAAYOUNE	MRC	013W13 27N10	400	CP	J3E	41	45	ND			0000 2359	
1795.40	294	POL	SZCZECIN	POL	014E35 53N28	400	CP	J3E	21	25	ND			0000 2359	
1795.40	294	URS	FORT SHEVTCHENKO	URS	050E18 44N30	400	CO	J3E	21	25	ND			0000 2359	
1795.40	294	URS	GURIEV	URS	051E55 47N03	400	CO	J3E	21	25	ND			0000 2359	
1795.40	294	URS	TEMRIUK	URS	037E24 45N17	90	CO	J3E	-2	2	ND			0000 2359	
1798.40	295	ALG	TENES RADIO	ALG	001E18 36N32	400	CP	J3E	21	25	ND			0000 2359	
1798.40	295	BEN	COTONOU	BEN	002E28 06N22	400	CP	J3E	41	45	ND			0000 2359	
1798.40	295	F	LE HAVRE	F	000E06 49N29	350	CO	J3E	17	21	ND			0000 2359	
1798.40	295	G	WICK RADIO	G	003W06 58N26	320	CP	J3E	15	19	ND			0000 2359	
1798.40	295	MLT	XLOKK RADIO	MLT	014E32 35N49	400	CP	J3E	21	25	ND			0000 2359	
1798.40	295	MRC	DAKHLA	MRC	015W56 23N42	350	CP	J3E	37	41	ND			0000 2359	
1798.40	295	MRC	SAFI RADIO	MRC	009W14 32N18	200	CP	J3E	7	11	ND			0000 2359	
1798.40	295	POR	DOCA PESCA	POR	009W13 38N43	200	OT	J3E	7	11	ND			0000 2359	
1798.40	295	ROU	CONSTANTA	ROU	028E37 44N06	400	CP	J3E	21	25	ND			0000 2359	



1	2	3	4	5	6	7	8	9	10A	10B	11A	11B	11C	12	13
1798.40	295	S	STOCKHOLM RADIO	S	014E19 55N29	400	CP	J3E	21	25	ND			0000 2359	
1798.40	295	URS	ASTRAKHAN	URS	047E42 46N55	400	CP	J3E	21	25	ND			0000 2359	
1798.40	295	URS	MURMANSK	URS	033E10 68N58	400	CP	J3E	21	25	ND			0000 2359	

ANNEX 2

Frequency Assignment Plan (Region 1) for Stations of the Aeronautical Radionavigation Service (Radiobeacons) in the Bands 415 - 435 kHz and 510 - 526.5 kHz

Column	*Plan column headings*
1.	*Assigned frequency (kHz)*
2.	*Channel number*
3.	*Country symbol*
4.	*Transmitting station name*
5.	*Symbol of the country or geographical area in which the station is located* (see Table 1 in the Preface to the International Frequency List)
6.	*Longitude and latitude* (in degrees and minutes) *of the transmitting station*
7.	*Radius (km) of the circular service area*
8.	*Nature of service*
9.	*Necessary bandwidth and class of emission*
10.	*Effective monopole radiated power (e.m.r.p.) (dBW)*[1] (value calculated on the basis of the minimum field strength to be protected and the service range for ground-wave propagation conditions)
11.	*Antenna characteristics (ND)*
12.	*Normal hours of operation (UTC)* of frequency assignment
13.	*Remarks*

TEXT FOR THE SYMBOL IN REMARKS COLUMN OF THE PLAN

1. For the necessary bandwidth, see footnote **** in Table 4 of Annex 3 of the Agreement (page 96).

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

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
416.00	1	ALG	ALGER	ALG	003E13 36N42	300	RC	100HA1A	17	ND	0000 2359	
416.00	1	ALG	INSALAH	ALG	002E31 27N15	300	RC	100HA1A	22	ND	0000 2359	
416.00	1	ARS	RAGHBA	ARS	044E35 23N55	130	RC	850HA2A	8	ND	0000 2359	
416.00	1	BDI	BULINGA	BDI	029E19 03S14	40	RC	100HA1A	-7	ND	0000 2359	
416.00	1	BUL	IAMBOL	BUL	026E30 42N28	30	RC	100HA1A	-16	ND	0000 2359	
416.00	1	CME	TOUBORO	CME	015E40 07N40	180	RC	100HA1A	13	ND	0000 2359	
416.00	1	CPV	FOGO	CPV	024W29 14N53	90	RC	2K00A2A	3	ND	0000 2359	
416.00	1	DDR	LEIPZIG-MOCKAU	DDR	012E17 51N26	20	RC	2K00A2A	-19	ND	0000 2359	
416.00	1	E	SANTANDER	E	003W51 43N26	90	RC	2K00A2A	-2	ND	0000 2359	
416.00	1	F	BORDEAUX SOUGE	F	000W48 44N51	40	RC	100HA1A	-12	ND	0000 2359	
416.00	1	F	CAMBRAI NIERGNIES	F	003E16 50N08	90	RC	100HA1A	-2	ND	0000 2359	
416.00	1	F	DIEUZE	F	006E45 48N47	40	RC	100HA1A	-12	ND	0000 2359	
416.00	1	F	LA VERDIERE	F	006E00 43N40	90	RC	100HA1A	-2	ND	0000 2359	
416.00	1	F	USSEL THALAMY	F	002E26 45N31	40	RC	100HA1A	-12	ND	0000 2359	
416.00	1	FNL	RAYSKALA	FNL	024E07 60N45	90	RC	100HA1A	-2	ND	0000 2359	
416.00	1	FNL	ROVANIEMI	FNL	025E58 66N38	90	RC	100HA1A	-2	ND	0000 2359	
416.00	1	G	NEWCASTLE	G	001W48 55N00	50	RC	850HA2A	-8	ND	0000 2359	
416.00	1	GRC	KASTELORIZO	GRC	029E34 36N08	50	RC	850HA2A	-8	ND	0000 2359	
416.00	1	GRC	SKYROS	GRC	024E29 38N58	60	RC	850HA2A	-6	ND	0000 2359	
416.00	1	HNG	BEKESCSABA	HNG	021E08 46N41	50	RC	850HA2A	-8	ND	0500 1900	
416.00	1	HNG	PUSZTAEGRES	HNG	018E31 46N52	50	RC	850HA2A	-8	ND	0000 2359	
416.00	1	HOL	LELYSTAD	HOL	005E32 52N27	30	RC	2K00A2A	-16	ND	0000 2359	
416.00	1	IRL	PLATFORM 1	IRL	011W00 53N00	40	RC	2K00A2A	-12	ND	0000 2359	
416.00	1	LBY	TAZERBO	LBY	021E06 25N40	300	RC	2K00A2A	22	ND	0000 2359	
416.00	1	MLT	LUCA	MLT	014E32 35N49	300	RC	850HA2A	17	ND	0000 2359	
416.00	1	MRC	BENI MELLAL	MRC	006W20 32N55	300	RC	2K00A2A	17	ND	0000 2359	
416.00	1	MRC	HADUZA	MRC	011W10 27N15	200	RC	2K00A2A	15	ND	0000 2359	
416.00	1	POL	POZNAN	POL	017E02 52N56	70	RC	2K00A2A	-5	ND	0000 2359	
416.00	1	POR	LAJES	AZR	027W06 38N46	180	RC	100HA1A	8	ND	0000 2359	
416.00	1	POR	PORTO SANTO	MDR	016W21 33N04	180	RC	100HA1A	8	ND	0000 2359	
416.00	1	POR	TANCOS	POR	008W21 39N28	180	RC	100HA1A	8	ND	0000 2359	
416.00	1	QAT	DOHA	QAT	051E34 25N16	200	RC	2K00A2A	15	ND	0000 2359	
416.00	1	QAT	DOHA	QAT	051E34 25N16	200	RC	2K00A2A	15	ND	0000 2359	
416.00	1	ROU	CONSTANTA	ROU	028E31 44N25	30	RC	2K00A2A	-16	ND	0000 2359	
416.00	1	S	BACCHUS	S	017E03 62N34	50	RC	100HA1A	-8	ND	0000 2359	
416.00	1	S	BERGA	S	018E13 59N04	50	RC	850HA2A	-8	ND	0000 2359	
416.00	1	SUI	BERN	SUI	007E31 46N54	40	RC	2K00A2A	-12	ND	0000 2359	
416.00	1	TCH	KUNOVICE	TCH	017E30 49N07	40	RC	2K00A2A	-12	ND	0000 2359	
416.00	1	TCH	VODOCHODY	TCH	014E26 50N13	40	RC	2K00A2A	-12	ND	0000 2359	
416.00	1	TGO	NIAMTOUGO	TGO	001E03 09N42	400	RC	2K00A2A	29	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
416.00	1	URS	BAKU	URS	049E45 40N20	50	RC	2K00A2A	-8	ND	0000 2359	
416.00	1	URS	KICHINEV	URS	028E52 47N00	50	RC	2K00A2A	-8	ND	0000 2359	
416.00	1	URS	MAKHATCHKALA	URS	047E31 42N59	50	RC	2K00A2A	-8	ND	0000 2359	
416.00	1	URS	YEREVAN	URS	044E36 40N14	150	RC	2K00A2A	5	ND	0000 2359	
416.00	1	YUG	POZAREVAC	YUG	021E09 44N37	30	RC	2K00A2A	-16	ND	0000 2359	
416.00	1	YUG	UZICE	YUG	019E52 43N46	20	RC	2K00A2A	-19	ND	0000 2359	
416.50		D	LECK	D	009E04 54N46	50	RC	2K14A2A	-8	ND	0000 2359	
417.00	2	ARS	SIBLI INTERSECTION	ARS	046E23 26N57	130	RC	850HA2A	8	ND	0000 2359	
417.00	2	BUL	SOFIA	BUL	023E24 42N41	30	RC	100HA1A	-16	ND	0000 2359	
417.00	2	CME	DJOUM	CME	012E38 02N40	180	RC	100HA1A	13	ND	0000 2359	
417.00	2	CTI	ODIENNE	CTI	007W34 09N30	200	RC	2K14A2A	15	ND	0000 2359	
417.00	2	D	EINBECK	D	009E50 51N50	50	RC	2K14A2A	-8	ND	0000 2359	
417.00	2	D	HEIDELBERG	D	008E36 49N23	50	RC	2K14A2A	-8	ND	0000 2359	
417.00	2	DDR	GROSS KREUTZ	DDR	012E46 52N24	20	RC	2K14A2A	-19	ND	0000 2359	
417.00	2	E	ALCOBENDAS	E	003W41 40N35	60	RC	2K14A2A	-6	ND	0000 2359	
417.00	2	E	SANTIAGO	E	008W26 42N54	70	RC	2K14A2A	-5	ND	0000 2359	
417.00	2	ETH	MASSAWA	ETH	039E21 15N37	200	RC	2K14A2A	15	ND	0000 2359	
417.00	2	F	AUXERRE BASSOU	F	003E30 47N55	40	RC	100HA1A	-12	ND	0000 2359	
417.00	2	F	TARBES OSSUN	F	000W01 43N12	40	RC	100HA1A	-12	ND	0000 2359	
417.00	2	FNL	RAUTAVAARA	FNL	028E08 63N25	90	RC	100HA1A	-2	ND	0000 2359	
417.00	2	G	BOURNEMOUTH	G	001W50 50N47	90	RC	850HA2A	-2	ND	0000 2359	
417.00	2	G	FINNINGLEY	G	001W00 53N29	50	RC	850HA2A	-8	ND	0000 2359	
417.00	2	G	LEUCHARS	G	002W52 56N22	60	RC	850HA2A	-6	ND	0000 2359	
417.00	2	G	OIL PLT INDE J	G	002E38 53N22	40	RC	850HA2A	-12	ND	0000 2359	
417.00	2	GRC	PAROS	GRC	025E08 37N01	60	RC	850HA2A	-6	ND	0000 2359	
417.00	2	HOL	EINDHOVEN	HOL	005E27 51N27	30	RC	2K14A2A	-16	ND	0000 2359	
417.00	2	I	PERETOLA	I	011E12 43N48	90	RC	2K14A2A	-2	ND	0000 2359	
417.00	2	IRL	PLATFORM 2	IRL	011W00 53N00	40	RC	2K14A2A	-12	ND	0000 2359	
417.00	2	MAU	RAPHAEL ISLAND	MAU	059E33 16S26	200	RC	850HA2A	15	ND	0400 1100	
417.00	2	MDG	BESALAMPY	MDG	044E29 16S45	90	RC	100HA1A	3	ND	0300 1500	
417.00	2	POL	WROCLAW	POL	017E00 51N13	40	RC	2K14A2A	-12	ND	0000 2359	
417.00	2	ROU	CRAIOVA	ROU	023E59 44N19	40	RC	2K14A2A	-12	ND	0000 2359	
417.00	2	S	AENGELHOLM	S	012E54 56N16	30	RC	850HA2A	-16	ND	0000 2359	
417.00	2	S	GAEVLE/SANDVIKEN	S	016E57 60N37	30	RC	850HA2A	-16	ND	0000 2359	
417.00	2	SUI	LUGANO	SUI	008E55 46N00	40	RC	2K14A2A	-12	ND	0000 2359	
417.00	2	TUR	ETIMESGUT I	TUR	032E42 39N57	140	RC	2K14A2A	4	ND	0000 2359	
417.00	2	URS	BREST	BLR	023E39 52N07	150	RC	2K14A2A	5	ND	0000 2359	
417.00	2	URS	TCHERNOVTSY	UKR	025E55 48N20	40	RC	2K14A2A	-12	ND	0000 2359	
417.00	2	URS	ZAPOROJIE	UKR	034E19 48N31	50	RC	2K14A2A	-8	ND	0000 2359	
417.00	2	URS	GROZNYI	URS	045E40 43N20	50	RC	2K14A2A	-8	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
417.00	2	URS	MURMANSK	URS	032E46 68N58	150	RC	2K14A2A	5	ND	0000 2359	
417.00	2	URS	ROSTOV NA DONU	URS	039E24 47N13	90	RC	2K14A2A	-2	ND	0000 2359	
417.00	2	URS	SUKHUMI	URS	041E00 43N00	80	RC	2K14A2A	-3	ND	0000 2359	
417.00	2	YUG	LUCKO	YUG	016E04 45N45	20	RC	2K14A2A	-19	ND	0000 2359	
417.00	2	YUG	OHRID	YUG	020E49 41N20	40	RC	2K14A2A	-12	ND	0000 2359	
417.00	2	YUG	OSIJEK	YUG	018E51 45N27	20	RC	2K14A2A	-19	ND	0000 2359	
418.00	3	AFS	JAN SMUTS	AFS	028E13 26S14	100	RC	2K14A2A	5	ND	0000 2359	
418.00	3	ALG	ANNABA	ALG	007E45 36N54	100	RC	100HA1A	0	ND	0000 2359	
418.00	3	ALG	DJANET	ALG	009E26 24N16	300	RC	100HA1A	22	ND	0000 2359	
418.00	3	ALG	EL GOLEA	ALG	002E52 30N35	100	RC	100HA1A	0	ND	0000 2359	
418.00	3	ALG	TLEMCEN	ALG	001W21 35N02	100	RC	100HA1A	0	ND	0000 2359	
418.00	3	ALG	TOUGGOURT	ALG	006E05 33N03	100	RC	100HA1A	0	ND	0000 2359	
418.00	3	ARS	BIR DURB	ARS	041E49 24N20	130	RC	850HA2A	8	ND	0000 2359	
418.00	3	AUT	ZELTWEG	AUT	014E45 47N12	70	RC	2K14A2A	-5	ND	0000 2359	
418.00	3	CME	BAIKWA	CME	014E25 09N10	50	RC	100HA1A	-3	ND	0000 2359	
418.00	3	CME	BETARE OYA	CME	014E07 05N36	50	RC	100HA1A	-3	ND	0000 2359	
418.00	3	CME	MAMFE	CME	009E20 05N43	90	RC	100HA1A	3	ND	0000 2359	
418.00	3	CME	NGAOUNDERE	CME	013E34 07N22	50	RC	100HA1A	-3	ND	0000 2359	
418.00	3	CTI	GRAND BEREBY	CTI	006W55 04N38	200	RC	2K14A2A	15	ND	0000 2359	
418.00	3	CYP	NICOSIA	CYP	033E22 35N09	250	RC	2K14A2A	13	ND	0000 2359	
418.00	3	DDR	KLIX	DDR	014E30 51N16	50	RC	2K14A2A	-8	ND	0000 2359	
418.00	3	E	BAILEN	E	003W38 38N09	100	RC	2K14A2A	0	ND	0000 2359	
418.00	3	E	POLLENSA	E	003E06 39N55	70	RC	2K14A2A	-5	ND	0000 2359	
418.00	3	F	CALAIS OYE	F	002E03 51N00	30	RC	100HA1A	-16	ND	0000 2359	
418.00	3	F	ETAIN	F	005E40 49N13	40	RC	100HA1A	-12	ND	0000 2359	
418.00	3	F	VALDAHON	F	006E20 47N13	40	RC	100HA1A	-12	ND	0000 2359	
418.00	3	F	VILLEFRANCHE TARARE	F	004E38 45N55	40	RC	100HA1A	-12	ND	0000 2359	
418.00	3	FNL	PIIKAJARVI	FNL	022E12 61N15	20	RC	850HA2A	-19	ND	0000 2359	
418.00	3	FNL	SELANPAA	FNL	026E48 61N04	30	RC	850HA2A	-16	ND	0000 2359	
418.00	3	G	PLATFORM DP5	G	003W31 53N59	30	RC	850HA2A	-16	ND	0000 2359	
418.00	3	GAB	MOUILA	GAB	010E52 01S49	140	RC	100HA1A	9	ND	0000 2359	
418.00	3	GRC	ATHINAI/ELEFSIS	GRC	023E33 38N04	40	RC	850HA2A	-12	ND	0000 2359	
418.00	3	IRL	ABBEYSHRULE	IRL	007W39 53N35	40	RC	2K14A2A	-12	ND	0000 2359	
418.00	3	KEN	NAROK	KEN	035E51 01S06	360	RC	2K14A2A	26	ND	0000 2359	
418.00	3	LBY	AL ZAWARA	LBY	012E10 31N10	90	RC	2K14A2A	-2	ND	0000 2359	
418.00	3	MRC	ESSAOUIRA	MRC	009W46 31N38	100	RC	100HA1A	0	ND	0000 2359	
418.00	3	POL	GRUDZIADZ	POL	018E45 53N28	50	RC	850HA2A	-8	ND	0000 2359	
418.00	3	ROU	FOCSANI	ROU	027E12 45N41	150	RC	2K14A2A	5	ND	0000 2359	
418.00	3	S	BODEN	S	021E43 65N50	50	RC	850HA2A	-8	ND	0000 2359	
418.00	3	S	GREBBESTAD	S	011E15 58N42	90	RC	100HA1A	-2	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
418.00	3	TCH	TATRY	TCH	020E05 49N05	90	RC	2K14A2A	-2	ND	0000 2359	
418.00	3	TGO	NIAMTOUGOU	TGO	001E03 09N42	400	RC	2K14A2A	29	ND	0000 2359	
418.00	3	TUN	SFAX EL MAOU	TUN	010E41 34N43	60	RC	100HA1A	-6	ND	0000 2359	
418.00	3	TUR	BIGA	TUR	027E22 40N17	140	RC	2K14A2A	4	ND	0000 2359	
418.00	3	URS	GOMEL	BLR	031E01 52N25	50	RC	2K14A2A	-8	ND	0000 2359	
418.00	3	URS	KURSK	URS	036E12 51N46	50	RC	2K14A2A	-8	ND	0000 2359	
418.00	3	URS	TALLIN	URS	024E47 59N27	50	RC	2K14A2A	-8	ND	0000 2359	
418.00	3	URS	VELIKIE LUKI	URS	030E12 56N22	150	RC	2K14A2A	5	ND	0000 2359	
418.00	3	YUG	DRVENIK	YUG	016E09 43N27	50	RC	2K14A2A	-8	ND	0000 2359	
418.00	3	YUG	KRUSEVAC	YUG	021E20 43N36	90	RC	2K14A2A	-2	ND	0000 2359	
418.00	3	ZAI	KANIAMAIKAS	ZAI	024E03 07S42	90	RC	2K14A2A	3	ND	0000 2359	
418.00	3	ZAI	KWILU-NGONGO	ZAI	014E42 05S30	90	RC	2K14A2A	3	ND	0500 1600	
418.00	3	ZAI	LIKASI	ZAI	026E45 10S50	90	RC	2K14A2A	3	ND	0500 1600	
418.00	3	ZAI	MONKOTO	ZAI	020E39 01S36	90	RC	2K14A2A	3	ND	0500 1600	
418.00	3	ZAI	PWETO	ZAI	028E53 08S28	90	RC	2K14A2A	3	ND	0500 1600	
419.00	4	AFS	LOUIS TRICHARDT	AFS	029E52 23S03	150	RC	2K14A2A	10	ND	0000 2359	
419.00	4	ARS	FARZAN ISLAND	ARS	042E50 16N45	130	RC	850HA2A	8	ND	0000 2359	
419.00	4	CME	KOURCUI	CME	014E07 11N05	50	RC	100HA1A	-3	ND	0000 2359	
419.00	4	CME	LOLO	CME	014E55 04N17	50	RC	100HA1A	-3	ND	0000 2359	
419.00	4	D	BORKUM	D	006E43 53N36	50	RC	2K14A2A	-8	ND	0000 2359	
419.00	4	D	WUNSTORF	D	009E27 52N28	50	RC	2K14A2A	-8	ND	0000 2359	
419.00	4	DNK	HERNING	DNK	009E08 56N10	50	RC	850HA2A	-8	ND	0000 2359	
419.00	4	F	BOURGES	F	002E23 47N04	40	RC	100HA1A	-12	ND	0000 2359	
419.00	4	F	MIRECOURT	F	006E04 48N19	50	RC	100HA1A	-8	ND	0000 2359	
419.00	4	FNL	HAAPAVESI	FNL	025E30 64N05	90	RC	100HA1A	-2	ND	0000 2359	
419.00	4	FNL	VUOTSO	FNL	027E07 68N05	90	RC	100HA1A	-2	ND	0000 2359	
419.00	4	G	WITTERING	G	000W28 52N37	60	RC	850HA2A	-6	ND	0000 2359	
419.00	4	GRC	LEROS	GRC	026E48 37N11	60	RC	850HA2A	-6	ND	0000 2359	
419.00	4	HOL	MIDDELBURG	HOL	003E44 51N31	30	RC	2K14A2A	-16	ND	0000 2359	
419.00	4	IRL	PLATFORM 3	IRL	011W00 53N00	40	RC	2K14A2A	-12	ND	0000 2359	
419.00	4	KWT	KUWAIT INTL AEROPORT	KWT	047E59 29N23	210	RC	2K14A2A	16	ND	0000 2359	
419.00	4	LBY	WARE HOUSE 59A	LBY	019E56 28N18	100	RC	2K14A2A	5	ND	0000 2359	
419.00	4	MRC	BOUARFA	MRC	001W45 32N30	100	RC	2K14A2A	0	ND	0000 2359	
419.00	4	OMA	AYDIM	OMA	053E22 16N59	150	RC	850HA2A	10	ND	0000 2359	
419.00	4	POL	CHRCYNNO	POL	020E50 52N30	40	RC	2K14A2A	-12	ND	0000 2359	
419.00	4	POL	MOSTKOWO	POL	015E03 53N00	70	RC	850HA2A	-5	ND	0000 2359	
419.00	4	POR	SINES	POR	008W48 37N06	50	RC	2K14A2A	-8	ND	0000 2359	
419.00	4	S	ANDERSTORP	S	013E38 57N17	30	RC	850HA2A	-16	ND	0000 2359	
419.00	4	S	VAESTERAAS/HAESSLOE	S	016E36 59N31	30	RC	850HA2A	-16	ND	0000 2359	
419.00	4	TUN	GAFSA	TUN	008E48 34N25	30	RC	850HA2A	-16	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
419.00	4	TUN	TUNIS CARTHAGE AEROP	TUN	010E19 36N49	20	RC	850HA2A	-19	ND	0000 2359	
419.00	4	UAE	MUBARRAZ ISL	UAE	053E13 24N17	100	RC	2K14A2A	5	ND	0000 2359	
419.00	4	URS	JITOMIR	UKR	028E20 50N16	150	RC	2K14A2A	5	ND	0000 2359	
419.00	4	URS	MELITOPOL	UKR	035E22 46N50	150	RC	2K14A2A	5	ND	0000 2359	
419.00	4	URS	KALININGRAD	URS	020E30 54N42	40	RC	2K14A2A	-12	ND	0000 2359	
419.00	4	URS	LENINAKAN	URS	043E51 40N49	150	RC	2K14A2A	5	ND	0000 2359	
419.00	4	YUG	SKOPJE	YUG	021E42 41N44	30	RC	2K14A2A	-16	ND	0000 2359	
420.00	5	AFS	JAN SMUTS	AFS	028E13 26S14	100	RC	2K14A2A	5	ND	0000 2359	
420.00	5	AFS	JAN SMUTS	AFS	028E13 26S14	100	RC	2K14A2A	5	ND	0000 2359	
420.00	5	ALG	BISKRA	ALG	005E44 34N48	100	RC	100HA1A	0	ND	0000 2359	
420.00	5	ALG	TLEMCEN	ALG	001W21 35N02	100	RC	100HA1A	0	ND	0000 2359	
420.00	5	ARS	AL JOUF AIRPORT	ARS	040E05 29N47	130	RC	850HA2A	8	ND	0000 2359	
420.00	5	ARS	HOFUF	ARS	049E29 25N24	130	RC	850HA2A	8	ND	0000 2359	
420.00	5	AUT	INNSBRUCK	AUT	011E24 47N14	70	RC	2K14A2A	-5	ND	0000 2359	
420.00	5	BUL	PLOVDIV	BUL	024E41 42N04	30	RC	100HA1A	-16	ND	0000 2359	
420.00	5	BUL	SILISTRA	BUL	027E16 44N07	50	RC	100HA1A	-8	ND	0000 2359	
420.00	5	CME	EDEA	CME	010E08 03N47	100	RC	100HA1A	5	ND	0000 2359	
420.00	5	CME	MAKARI	CME	014E27 12N33	50	RC	100HA1A	-3	ND	0000 2359	
420.00	5	CME	YOKO	CME	012E20 05N31	90	RC	100HA1A	3	ND	0000 2359	
420.00	5	CTI	BOUAKE	CTI	004W58 07N42	200	RC	2K14A2A	15	ND	0000 2359	
420.00	5	D	BAYREUTH	D	011E34 49N58	50	RC	2K14A2A	-8	ND	0000 2359	
420.00	5	D	BUECHEL	D	007E08 50N16	90	RC	2K14A2A	-2	ND	0000 2359	
420.00	5	D	ST MICHAELISDONN	D	009E09 53N59	50	RC	2K14A2A	-8	ND	0000 2359	
420.00	5	DDR	LEIPZIG	DDR	012E07 51N26	20	RC	2K14A2A	-19	ND	0000 2359	
420.00	5	E	TENERIFE	CNR	016W22 28N29	40	RC	2K14A2A	-7	ND	0000 2359	
420.00	5	E	SEVILLA	E	005W48 37N25	70	RC	2K14A2A	-5	ND	0000 2359	
420.00	5	F	AUCH	F	000E37 43N38	40	RC	100HA1A	-12	ND	0000 2359	
420.00	5	F	AUTUN	F	004E16 46N48	40	RC	100HA1A	-12	ND	0000 2359	
420.00	5	F	BELFORT FONTAINE	F	007E01 47N39	40	RC	100HA1A	-12	ND	0000 2359	
420.00	5	FNL	NUMMELA	FNL	024E18 60N20	30	RC	850HA2A	-16	ND	0000 2359	
420.00	5	FNL	TERVOLA	FNL	024E51 66N06	30	RC	850HA2A	-16	ND	0000 2359	
420.00	5	G	BELFAST HARBOUR	G	005W53 54N37	30	RC	850HA2A	-16	ND	0000 2359	
420.00	5	G	BLACKPOOL	G	002W59 53N46	30	RC	850HA2A	-16	ND	0000 2359	
420.00	5	G	OIL PLT AMOCO 49/27D	G	002E20 53N01	40	RC	850HA2A	-12	ND	0000 2359	
420.00	5	GAB	LASTOURVILLE	GAB	012E43 00S50	140	RC	100HA1A	9	ND	0000 2359	
420.00	5	GRC	STEFANOVIKION	GRC	022E45 39N28	50	RC	850HA2A	-8	ND	0000 2359	
420.00	5	HNG	BUDAPEST FERIHEGY	HNG	019E18 47N24	40	RC	2K14A2A	-12	ND	0000 2359	
420.00	5	I	ALBENGA	I	008E13 44N03	90	RC	2K14A2A	-2	ND	0000 2359	
420.00	5	KEN	MARSABIT	KEN	037E59 02N21	100	RC	2K14A2A	5	ND	0000 2359	
420.00	5	LBY	ZUARA	LBY	012E07 32N56	140	RC	2K14A2A	4	ND	0000 2359	

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2	Channel number
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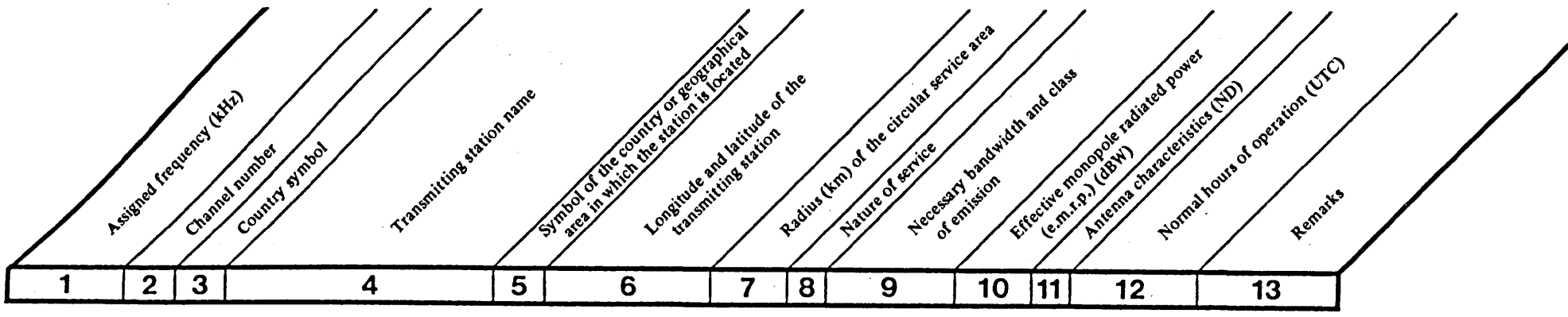
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
420.00	5	MRC	BEN SLIMANE	MRC	007W07 34N00	100	RC	2K14A2A	0	ND	0000 2359	
420.00	5	OMA	IBRI	OMA	056E30 23N14	150	RC	850HA2A	10	ND	0000 2359	
420.00	5	POR	PICO	AZR	028W27 38N33	50	RC	2K14A2A	-8	ND	0000 2359	
420.00	5	POR	ALVERCA	POR	009W02 38N54	70	RC	100HA1A	-5	ND	0000 2359	
420.00	5	ROU	SUCEAVA	ROU	026E22 47N42	40	RC	2K14A2A	-12	ND	0000 2359	
420.00	5	S	KARLSKOGA	S	014E29 59N19	30	RC	850HA2A	-16	ND	0000 2359	
420.00	5	S	MALMOE/STURUP	S	013E24 55N28	30	RC	850HA2A	-16	ND	0000 2359	
420.00	5	TCH	KUNOVICE	TCH	017E27 49N03	40	RC	2K14A2A	-12	ND	0000 2359	
420.00	5	TUR	ESKISEHIR	TUR	030E45 39N47	140	RC	2K14A2A	4	ND	0000 2359	
420.00	5	URS	SEMENOVKA	UKR	032E33 52N12	50	RC	2K14A2A	-8	ND	0000 2359	
420.00	5	URS	BAKU	URS	049E45 40N20	150	RC	2K14A2A	5	ND	0000 2359	
420.00	5	URS	GROZNYI	URS	045E40 43N20	40	RC	2K14A2A	-12	ND	0000 2359	
420.00	5	URS	KRASNODAR	URS	038E39 45N02	150	RC	2K14A2A	5	ND	0000 2359	
420.00	5	URS	VILNIUS	URS	025E18 54N40	150	RC	2K14A2A	5	ND	0000 2359	
420.00	5	URS	YEREVAN	URS	044E36 40N14	50	RC	2K14A2A	-8	ND	0000 2359	
420.00	5	YUG	KARLOVCI	YUG	019E57 45N12	50	RC	2K14A2A	-8	ND	0000 2359	
420.00	5	YUG	PRISTINA	YUG	021E02 42N36	20	RC	2K14A2A	-19	ND	0000 2359	
420.00	5	YUG	PULA	YUG	013E52 44N54	20	RC	2K14A2A	-19	ND	0000 2359	
420.00	5	ZAI	MOBA	ZAI	029E44 07S06	90	RC	2K14A2A	3	ND	0500 1600	
421.00	6	ARS	HALAIFA	ARS	039E16 26N26	130	RC	850HA2A	8	ND	0000 2359	
421.00	6	CME	BOURRAH	CME	013E28 10N11	50	RC	100HA1A	-3	ND	0000 2359	
421.00	6	D	OSNABR ATTERHEIDE	D	007E58 52N17	50	RC	2K14A2A	-8	ND	0000 2359	
421.00	6	DDR	KOENIGSBERG	DDR	012E27 53N05	80	RC	2K14A2A	-3	ND	0000 2359	
421.00	6	E	MADRID/GETAFE	E	003W51 40N12	60	RC	2K14A2A	-6	ND	0000 2359	
421.00	6	F	VALENCE	F	004E58 44N55	90	RC	100HA1A	-2	ND	0000 2359	
421.00	6	FNL	ALAVUS	FNL	023E35 62N33	90	RC	100HA1A	-2	ND	0000 2359	
421.00	6	FNL	SUOMUSSALMI	FNL	028E43 64N49	90	RC	100HA1A	-2	ND	0000 2359	
421.00	6	FNL	WREDEBY	FNL	026E45 60N40	30	RC	850HA2A	-16	ND	0000 2359	
421.00	6	G	HENTON	G	000W47 51N46	60	RC	850HA2A	-6	ND	0000 2359	
421.00	6	HNG	NAGYKORPAD	HNG	017E28 46N25	50	RC	850HA2A	-8	ND	0000 2359	
421.00	6	HOL	HOEVEN	HOL	004E33 51N33	30	RC	2K14A2A	-16	ND	0000 2359	
421.00	6	I	ROMA FIUMICINO	I	012E21 41N50	40	RC	2K14A2A	-12	ND	0000 2359	
421.00	6	IRL	GALWAY	IRL	009W04 53N15	40	RC	2K14A2A	-12	ND	0000 2359	
421.00	6	KEN	MOMBASA	KEN	039E36 04S02	360	RC	2K14A2A	26	ND	0000 2359	
421.00	6	MRC	DAKHLA	MRC	015W56 23N42	100	RC	2K14A2A	5	ND	0000 2359	
421.00	6	MRC	LAAYOUNE	MRC	013W13 27N10	100	RC	2K14A2A	5	ND	0000 2359	
421.00	6	POL	SLUPSK	POL	017E05 54N28	80	RC	2K14A2A	-3	ND	0000 2359	
421.00	6	POR	VISEU	POR	007W53 40N43	50	RC	2K14A2A	-8	ND	0000 2359	
421.00	6	S	BORLAENGE	S	015E25 60N28	30	RC	850HA2A	-16	ND	0000 2359	
421.00	6	S	HALMSTAD	S	012E49 56N40	30	RC	850HA2A	-16	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
421.00	6	S	LINKOEPING/SAAB	S	015E44 58N24	30	RC	850HA2A	-16	ND	0000 2359	
421.00	6	S	TRUNDOEN	S	021E47 65N23	30	RC	850HA2A	-16	ND	0000 2359	
421.00	6	TCH	HOSIN	TCH	014E29 49N02	40	RC	2K14A2A	-12	ND	0000 2359	
421.00	6	TUR	ERHAC	TUR	038E08 38N30	140	RC	2K14A2A	4	ND	0000 2359	
421.00	6	URS	LVOV	UKR	024E00 49N50	150	RC	2K14A2A	5	ND	0000 2359	
421.00	6	URS	POLTAVA	UKR	034E36 49N36	150	RC	2K14A2A	5	ND	0000 2359	
421.00	6	URS	SMOLENSK	URS	031E43 54N48	150	RC	2K14A2A	5	ND	0000 2359	
421.00	6	YUG	SALI	YUG	015E10 43N56	60	RC	2K14A2A	-6	ND	0000 2359	
421.00	6	YUG	VRSAC	YUG	021E35 45N15	20	RC	2K14A2A	-19	ND	0000 2359	
422.00	7	ALG	BEJAIA	ALG	005E02 36N43	100	RC	100HA1A	0	ND	0000 2359	
422.00	7	ARS	KAMIS MUSHAYT	ARS	042E25 18N18	130	RC	850HA2A	8	ND	0000 2359	
422.00	7	ARS	MAGALA	ARS	047E16 26N52	130	RC	850HA2A	8	ND	0000 2359	
422.00	7	BEN	PARAKOU AEROPORT	BEN	002E38 09N20	50	RC	100HA1A	-3	ND	0000 2359	
422.00	7	BUL	SLIVEN	BUL	026E12 42N35	50	RC	100HA1A	-8	ND	0000 2359	
422.00	7	CME	AMBAM	CME	011E16 02N22	100	RC	100HA1A	5	ND	0000 2359	
422.00	7	CME	BERTOUA	CME	013E44 04N32	50	RC	2K14A2A	-3	ND	0000 2359	
422.00	7	CME	NKAMBE	CME	010E40 06N12	100	RC	100HA1A	5	ND	0000 2359	
422.00	7	CPV	S. ANTAO	CPV	025W06 17N22	90	RC	2K14A2A	3	ND	0000 2359	
422.00	7	CTI	ODIENNE	CTI	007W34 09N30	200	RC	2K14A2A	15	ND	0000 2359	
422.00	7	D	TANGO	D	009E16 48N37	90	RC	2K14A2A	-2	ND	0000 2359	
422.00	7	ETH	ASSAB	ETH	042E45 13N01	200	RC	2K14A2A	15	ND	0000 2359	
422.00	7	F	COETQUIDAN	F	002W08 47N58	40	RC	100HA1A	-12	ND	0000 2359	
422.00	7	F	CREIL	F	002E32 49N15	140	RC	100HA1A	4	ND	0000 2359	
422.00	7	G	KNIGHTON	G	003W14 52N31	60	RC	850HA2A	-6	ND	0000 2359	
422.00	7	GHA	KUMASI	GHA	001W37 06N43	250	RC	2K14A2A	18	ND	0000 2359	
422.00	7	GRC	ASTIPALEA	GRC	026E21 36N32	60	RC	850HA2A	-6	ND	0000 2359	
422.00	7	GRC	ATHINAI	GRC	023E46 37N49	40	RC	850HA2A	-12	ND	0000 2359	
422.00	7	HNG	SZOLNOK	HNG	020E11 47N08	50	RC	850HA2A	-8	ND	0000 2359	
422.00	7	HOL	OILRIG	HOL	004E20 53N25	50	RC	2K14A2A	-8	ND	0000 2359	
422.00	7	LBY	SABHA 74	LBY	018E07 28N13	150	RC	2K14A2A	10	ND	0000 2359	
422.00	7	MDG	MANDABE	MDG	044E57 21S02	90	RC	100HA1A	3	ND	0300 1500	
422.00	7	MDG	TAMBOHORANO	MDG	043E58 17S29	110	RC	100HA1A	6	ND	0300 1500	
422.00	7	MRC	HOCEIMA	MRC	003W58 35N10	100	RC	100HA1A	0	ND	0000 2359	
422.00	7	MRC	TATA	MRC	007W50 29N30	300	RC	2K14A2A	22	ND	0000 2359	
422.00	7	QAT	DOHA	QAT	051E34 25N16	100	RC	2K14A2A	5	ND	0000 2359	
422.00	7	QAT	DOHA	QAT	051E34 25N16	100	RC	2K14A2A	5	ND	0000 2359	
422.00	7	ROU	BACAU	ROU	026E54 46N31	40	RC	2K14A2A	-12	ND	0000 2359	
422.00	7	ROU	TULCEA	ROU	028E43 45N04	30	RC	2K14A2A	-16	ND	0000 2359	
422.00	7	SUI	SION	SUI	007E20 46N13	40	RC	2K14A2A	-12	ND	0000 2359	
422.00	7	TCH	JAROMER	TCH	015E56 50N19	90	RC	2K14A2A	-2	ND	0000 2359	



1	2	3	4	5	6	7	8	9	10	11	12	13
422.00	7	TUN	PLATE FORME ASTHART	TUN	011E17 36N17	170	RC	850HA2A	7	ND	0000 2359	
422.00	7	TUR	CANAKKALE	TUR	026E25 40N10	50	RC	2K14A2A	-8	ND	0000 2359	
422.00	7	URS	ARKHANGHELSK	URS	040E12 64N33	150	RC	2K14A2A	5	ND	0000 2359	
422.00	7	URS	KUTAISI	URS	042E42 42N16	150	RC	2K14A2A	5	ND	0000 2359	
422.00	7	URS	MONTCHEGORSK	URS	032E57 67N59	150	RC	2K14A2A	5	ND	0000 2359	
422.00	7	URS	PSKOV	URS	028E00 57N43	150	RC	2K14A2A	5	ND	0000 2359	
422.00	7	YUG	OSIJEK	YUG	018E59 45N25	50	RC	2K14A2A	-8	ND	0000 2359	
422.00	7	YUG	SLOVENJGRADEC	YUG	015E05 46N30	20	RC	2K14A2A	-19	ND	0000 2359	
423.00	8	AGL	DONDO	AGL	014E28 09S41	90	RC	2K14A2A	3	ND	0000 2359	
423.00	8	ALG	ADRAR	ALG	000W14 27N46	100	RC	100HA1A	5	ND	0000 2359	
423.00	8	ALG	BECHAR	ALG	002W14 31N38	100	RC	100HA1A	0	ND	0000 2359	
423.00	8	ALG	MASCARA	ALG	000E11 35N13	100	RC	100HA1A	0	ND	0000 2359	
423.00	8	ALG	OUARGLA	ALG	005E25 31N56	300	RC	100HA1A	17	ND	0000 2359	
423.00	8	BUL	VARNA	BUL	027E52 43N13	50	RC	100HA1A	-8	ND	0000 2359	
423.00	8	D	BRILON	D	008E35 51N25	50	RC	2K14A2A	-8	ND	0000 2359	
423.00	8	D	EMDEN	D	007E14 53N24	50	RC	2K14A2A	-8	ND	0000 2359	
423.00	8	DDR	COTTBUS	DDR	013E32 52N22	50	RC	2K14A2A	-8	ND	0000 2359	
423.00	8	DDR	ZWICKAU	DDR	012E30 50N43	40	RC	2K14A2A	-12	ND	0000 2359	
423.00	8	DNK	ODENSE	DNK	010E13 55N26	50	RC	850HA2A	-8	ND	0000 2359	
423.00	8	E	SALAMANCA	E	005W38 40N56	70	RC	2K14A2A	-5	ND	0000 2359	
423.00	8	E	SEVILLA	E	006W19 36N39	70	RC	2K14A2A	-5	ND	0000 2359	
423.00	8	F	BOURG	F	005E18 46N12	40	RC	100HA1A	-12	ND	0000 2359	
423.00	8	F	S MANDRIER	F	005E57 43N04	90	RC	100HA1A	-2	ND	0000 2359	
423.00	8	F	TOULOUSE MERVILLA	F	001E29 43N30	40	RC	850HA2A	-12	ND	0000 2359	
423.00	8	FNL	EURA	FNL	022E12 61N07	90	RC	100HA1A	-2	ND	0000 2359	
423.00	8	FNL	YLIVIESKA	FNL	024E44 64N03	90	RC	100HA1A	-2	ND	0000 2359	
423.00	8	G	COTTESMORE	G	000W59 52N44	40	RC	850HA2A	-12	ND	0000 2359	
423.00	8	G	HETHEL	G	001E11 52N34	20	RC	850HA2A	-19	ND	0000 2359	
423.00	8	G	WALNEY ISLAND	G	003W16 54N08	30	RC	850HA2A	-16	ND	0000 2359	
423.00	8	I	FORLI	I	011E55 44N15	40	RC	2K14A2A	-12	ND	0000 2359	
423.00	8	KEN	NAIROBI	KEN	036E54 01S20	100	RC	2K14A2A	5	ND	0000 2359	
423.00	8	LBY	GHAT	LBY	010E01 25N11	250	RC	2K14A2A	18	ND	0000 2359	
423.00	8	POL	ELBLAG	POL	019E25 54N08	80	RC	2K14A2A	-3	ND	0000 2359	
423.00	8	POL	KRAKOW	POL	020E12 50N05	70	RC	2K14A2A	-5	ND	0000 2359	
423.00	8	POR	TANCOS	POR	008W16 39N29	70	RC	2K14A2A	-5	ND	0000 2359	
423.00	8	ROU	BUCURESTI/OTOPENI	ROU	025E59 44N33	40	RC	2K14A2A	-12	ND	0000 2359	
423.00	8	SUI	SAMEDAN	SUI	009E53 46N32	40	RC	2K14A2A	-12	ND	0000 2359	
423.00	8	URS	VITEBSK	BLR	030E11 55N13	50	RC	2K14A2A	-8	ND	0000 2359	
423.00	8	URS	PERVOMAISK	UKR	030E13 50N27	150	RC	2K14A2A	5	ND	0000 2359	
423.00	8	URS	TCHISTIAKOVO	UKR	038E16 48N03	150	RC	2K14A2A	5	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
423.00	8	YUG	ZITORADJE	YUG	021E44 43N11	50	RC	2K14A2A	-8	ND	0000 2359	
424.00	9	AGL	GAGO COUTINHO	AGL	021E26 14S06	10	RC	2K14A2A	-18	ND	0000 2359	
424.00	9	AGL	JAMBA	AGL	016E02 14S42	90	RC	2K14A2A	3	ND	0000 2359	
424.00	9	BEL	BRUXELLES-GRINBERGEN	BEL	004E23 50N57	40	RC	2K14A2A	-12	ND	0000 2359	
424.00	9	BEN	COTONOU AEROPORT	BEN	002E25 06N23	100	RC	100HA1A	5	ND	0000 2359	
424.00	9	BEN	NATITINGOU AEROPORT	BEN	001E35 09N47	100	RC	100HA1A	5	ND	0000 2359	
424.00	9	CME	ABONG MBANG	CME	013E12 04N00	50	RC	100HA1A	-3	ND	0000 2359	
424.00	9	CTI	BOUAKE	CTI	004W58 07N42	200	RC	2K14A2A	15	ND	0000 2359	
424.00	9	D	BONAMES	D	008E40 50N11	30	RC	2K14A2A	-16	ND	0000 2359	
424.00	9	E	REUS	E	001E09 41N09	90	RC	2K14A2A	-2	ND	0000 2359	
424.00	9	F	PHALSBOURG	F	007E12 48N46	40	RC	100HA1A	-12	ND	0000 2359	
424.00	9	F	S FLOUR	F	003E00 45N05	40	RC	100HA1A	-12	ND	0000 2359	
424.00	9	FNL	PELLO	FNL	023E58 66N46	90	RC	100HA1A	-2	ND	0000 2359	
424.00	9	FNL	RANTASALMI	FNL	028E22 62N04	90	RC	100HA1A	-2	ND	0000 2359	
424.00	9	GRC	AGRINION	GRC	021E21 38N36	150	RC	850HA2A	5	ND	0000 2359	
424.00	9	HNG	GYOR	HNG	017E44 47N40	100	RC	2K14A2A	0	ND	0000 2359	
424.00	9	I	RONCHI LEGIONARI	I	013E22 45N50	40	RC	2K14A2A	-12	ND	0000 2359	
424.00	9	IRL	PLATFORM 4	IRL	011W00 53N00	40	RC	2K14A2A	-12	ND	0000 2359	
424.00	9	LBY	AL SARIR	LBY	022E30 27N39	300	RC	2K14A2A	22	ND	0000 2359	
424.00	9	LBY	TRIPOLI	LBY	013E07 32N00	100	RC	2K14A2A	0	ND	0000 2359	
424.00	9	MRC	KHOURIBGA	MRC	006W52 32N45	100	RC	2K14A2A	0	ND	0000 2359	
424.00	9	OMA	SALIYA	OMA	053E25 17N53	150	RC	850HA2A	10	ND	0000 2359	
424.00	9	POR	CORVO	AZR	031W07 39N40	50	RC	2K14A2A	-8	ND	0000 2359	
424.00	9	POR	S JORGE	AZR	028W10 38N40	50	RC	2K14A2A	-8	ND	0000 2359	
424.00	9	SUI	LES EPLATURES	SUI	006E48 47N05	40	RC	2K14A2A	-12	ND	0000 2359	
424.00	9	TCH	PRAHA/NORTH	TCH	014E18 50N07	30	RC	2K14A2A	-16	ND	0000 2359	
424.00	9	URS	ODESSA	UKR	030E44 46N28	150	RC	2K14A2A	5	ND	0000 2359	
424.00	9	URS	LENINAKAN	URS	043E51 40N49	50	RC	2K14A2A	-8	ND	0000 2359	
424.00	9	URS	TUAPSE	URS	039E05 44N06	150	RC	2K14A2A	5	ND	0000 2359	
424.00	9	YUG	VRLIKA	YUG	016E26 43N56	50	RC	2K14A2A	-8	ND	0000 2359	
424.00	9	YUG	ZAGREB	YUG	015E51 45N36	20	RC	2K14A2A	-19	ND	0000 2359	
424.00	9	ZAI	DILOLO	ZAI	022E21 10S43	90	RC	2K14A2A	3	ND	0500 1600	
424.00	9	ZAI	YUKI	ZAI	019E25 04S50	90	RC	2K14A2A	3	ND	0500 1600	
425.00	10	AFS	LOUIS TRICHARDT	AFS	029E52 23S03	150	RC	2K14A2A	10	ND	0000 2359	
425.00	10	AFS	VEREENIGING	AFS	027E57 26S32	50	RC	2K14A2A	-3	ND	0000 2359	
425.00	10	ALB	RINAS	ALB	019E43 41N25	80	RC	2K14A2A	-3	ND	0000 2359	
425.00	10	ALG	BATNA	ALG	006E09 35N32	100	RC	100HA1A	0	ND	0000 2359	
425.00	10	BUL	BOURGAS	BUL	027E30 42N33	30	RC	100HA1A	-16	ND	0000 2359	
425.00	10	BUL	PLEVEN	BUL	024E35 43N24	30	RC	100HA1A	-16	ND	0000 2359	
425.00	10	CME	BAGANTE	CME	010E33 05N07	50	RC	100HA1A	-3	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
425.00	10	CME	MADINGRIN	CME	014E55 08N25	180	RC	100HA1A	13	ND	0000 2359	
425.00	10	D	IGELSBACH	D	010E52 49N09	30	RC	2K14A2A	-16	ND	0000 2359	
425.00	10	D	MUENSTER TELGTE	D	007E46 51N57	50	RC	2K14A2A	-8	ND	0000 2359	
425.00	10	DDR	LEIPZIG	DDR	012E16 51N25	20	RC	2K14A2A	-19	ND	0000 2359	
425.00	10	DDR	LEIPZIG	DDR	012E12 51N25	20	RC	2K14A2A	-19	ND	0000 2359	
425.00	10	E	TENERIFE NORTE	CNR	016W15 28N27	40	RC	2K14A2A	-7	ND	0000 2359	
425.00	10	F	SUIPPES	F	004E38 49N13	40	RC	100HA1A	-12	ND	0000 2359	
425.00	10	FNL	ORITKARI	FNL	025E28 64N59	30	RC	850HA2A	-16	ND	0000 2359	
425.00	10	G	FAIR OAKS	G	000W33 51N21	20	RC	850HA2A	-19	ND	0000 2359	
425.00	10	G	OIL PLT AMOCO 49/27A	G	002E19 53N02	40	RC	850HA2A	-12	ND	0000 2359	
425.00	10	GHA	ADA	GHA	000E32 05N52	20	RC	2K14A2A	-14	ND	0000 2359	
425.00	10	HOL	HILVERSUM	HOL	005E09 52N12	30	RC	2K14A2A	-16	ND	0000 2359	
425.00	10	I	PIACENZA	I	009E43 44N55	90	RC	2K14A2A	-2	ND	0000 2359	
425.00	10	IRL	KNOCK	IRL	008W27 53N57	40	RC	2K14A2A	-12	ND	0000 2359	
425.00	10	KEN	LODWAR	KEN	035E37 03N07	360	RC	2K14A2A	26	ND	0000 2359	
425.00	10	LBY	SABHA	LBY	014E28 27N01	300	RC	2K14A2A	22	ND	0000 2359	
425.00	10	MRC	TAN TAN	MRC	011W07 28N35	100	RC	2K14A2A	5	ND	0000 2359	
425.00	10	POL	CZERWIENSK	POL	015E25 52N02	60	RC	850HA2A	-6	ND	0000 2359	
425.00	10	POL	RADOM	POL	021E06 51N30	50	RC	850HA2A	-8	ND	0000 2359	
425.00	10	POR	BRAGA	POR	008W27 41N35	50	RC	2K14A2A	-8	ND	0000 2359	
425.00	10	POR	EVORA	POR	007W53 38N31	50	RC	2K14A2A	-8	ND	0000 2359	
425.00	10	S	ORUST	S	011E34 58N13	60	RC	850HA2A	-6	ND	0000 2359	
425.00	10	S	UMEAA	S	020E11 63N51	30	RC	850HA2A	-16	ND	0000 2359	
425.00	10	TCH	KOSICE	TCH	021E13 48N36	90	RC	2K14A2A	-2	ND	0000 2359	
425.00	10	TUN	GABES AEROPHARE	TUN	010E06 33N53	60	RC	100HA1A	-6	ND	0000 2359	
425.00	10	TUR	ANKARA/CUBUK	TUR	033E06 40N14	140	RC	2K14A2A	4	ND	0000 2359	
425.00	10	URS	PII	UKR	031E08 49N52	150	RC	2K14A2A	5	ND	0000 2359	
425.00	10	URS	SIMFEROPOL	UKR	034E06 44N56	50	RC	2K14A2A	-8	ND	0000 2359	
425.00	10	URS	ASTRAKHAN	URS	048E00 46N22	150	RC	2K14A2A	5	ND	0000 2359	
425.00	10	URS	KAUNAS	URS	024E00 54N55	150	RC	2K14A2A	5	ND	0000 2359	
425.00	10	URS	TALLIN	URS	024E47 59N27	150	RC	2K14A2A	5	ND	0000 2359	
425.00	10	URS	VELIKIE LUKI	URS	030E12 56N22	50	RC	2K14A2A	-8	ND	0000 2359	
425.00	10	YUG	CACAK	YUG	020E10 43N53	50	RC	2K14A2A	-8	ND	0000 2359	
425.00	10	ZAI	BENI	ZAI	029E28 00N35	90	RC	2K14A2A	3	ND	0500 1600	
425.00	10	ZAI	LUENA	ZAI	025E45 09S28	90	RC	2K14A2A	3	ND	0500 1600	
426.00	11	ALG	HASSI MESSAOUD	ALG	006E08 31N39	100	RC	100HA1A	0	ND	0000 2359	
426.00	11	AUT	GLEICHENBERG	AUT	015E48 46N53	70	RC	2K14A2A	-5	ND	0000 2359	
426.00	11	BEN	COTONOU AEROPORT	BEN	002E25 06N23	100	RC	100HA1A	5	ND	0000 2359	
426.00	11	BEN	NATITINGOU AEROPORT	BEN	001E35 09N47	100	RC	2K14A2A	5	ND	0000 2359	
426.00	11	CME	YOKADOUMA	CME	015E11 03N25	150	RC	100HA1A	10	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
426.00	11	D	AACHEN-MERZBRUCK	D	006E11 50N50	50	RC	2K14A2A	-8	ND	0000 2359	
426.00	11	E	TORREJON	E	003W22 40N24	150	RC	2K14A2A	5	ND	0000 2359	
426.00	11	EGY	EL DABAA	EGY	028E27 31N02	370	RC	2K14A2A	22	ND	0000 2359	
426.00	11	F	CASTETS	F	001W09 43N55	40	RC	100HA1A	-12	ND	0000 2359	
426.00	11	F	GRENOBLE	F	005E52 45N13	40	RC	100HA1A	-12	ND	0000 2359	
426.00	11	FNL	KUHMO	FNL	029E27 64N07	90	RC	100HA1A	-2	ND	0000 2359	
426.00	11	G	BEMBRIDGE	G	001W07 50N41	30	RC	850HA2A	-16	ND	0000 2359	
426.00	11	G	LONGSIDE	G	001W52 57N31	40	RC	850HA2A	-12	ND	0000 2359	
426.00	11	G	MILDENHALL	G	000E29 52N22	40	RC	850HA2A	-12	ND	0000 2359	
426.00	11	G	PRESTWICK	G	004W41 55N33	30	RC	850HA2A	-16	ND	0000 2359	
426.00	11	G	PUMP STATION 1	G	001E37 55N54	40	RC	850HA2A	-12	ND	0000 2359	
426.00	11	G	SHOBDON	G	002W53 52N14	20	RC	850HA2A	-19	ND	0000 2359	
426.00	11	GHA	ACCRA	GHA	000W10 05N37	20	RC	2K14A2A	-14	ND	0000 2359	
426.00	11	I	SORRENTO	I	014E20 40N35	180	RC	2K14A2A	8	ND	0000 2359	
426.00	11	IRL	PLATFORM 5	IRL	011W00 53N00	40	RC	2K14A2A	-12	ND	0000 2359	
426.00	11	MDG	AMBATOMAINTY	MDG	045E40 17S42	90	RC	100HA1A	3	ND	0300 1500	
426.00	11	MRC	SAFI	MRC	009W14 32N18	100	RC	100HA1A	0	ND	0000 2359	
426.00	11	MRC	TOUAHAR	MRC	004W10 34N12	100	RC	2K14A2A	0	ND	0000 2359	
426.00	11	OMA	ADAM	OMA	057E33 22N22	150	RC	850HA2A	10	ND	0000 2359	
426.00	11	POL	RYBNIK	POL	018E38 50N04	40	RC	2K14A2A	-12	ND	0000 2359	
426.00	11	POR	COIMBRA	POR	008W28 40N09	50	RC	2K14A2A	-8	ND	0000 2359	
426.00	11	POR	PORTIMAO	POR	008W35 37N09	50	RC	2K14A2A	-8	ND	0000 2359	
426.00	11	ROU	BACAU	ROU	026E54 46N31	220	RC	2K14A2A	11	ND	0000 2359	
426.00	11	S	BERGA	S	018E07 59N04	50	RC	850HA2A	-8	ND	0000 2359	
426.00	11	TCH	KOLIN	TCH	015E11 50N01	40	RC	2K14A2A	-12	ND	0000 2359	
426.00	11	TCH	LUCENEC	TCH	019E49 45N18	40	RC	2K14A2A	-12	ND	0000 2359	
426.00	11	TUN	BIZERTE	TUN	009E48 37N15	50	RC	850HA2A	-8	ND	0000 2359	
426.00	11	URS	ZAPOROJIE	UKR	034E19 48N31	150	RC	2K14A2A	5	ND	0000 2359	
426.00	11	URS	GELENDJIK	URS	038E03 44N33	150	RC	2K14A2A	5	ND	0000 2359	
426.00	11	URS	KUTAISI	URS	042E42 42N16	150	RC	2K14A2A	5	ND	0000 2359	
426.00	11	URS	NOVGOROD	URS	031E18 58N32	150	RC	2K14A2A	5	ND	0000 2359	
426.00	11	URS	NUKHA	URS	047E10 41N12	40	RC	2K14A2A	-12	ND	0000 2359	
426.00	11	URS	PETROZAVODSK	URS	034E04 61N47	50	RC	2K14A2A	-8	ND	0000 2359	
426.50		D	MIKE	D	011E36 48N34	50	RC	2K14A2A	-8	ND	0000 2359	
427.00	12	AGL	LUANDA	AGL	013E18 08S47	460	RC	2K14A2A	33	ND	0000 2359	
427.00	12	ALG	BOU SAADA	ALG	004E12 35N20	100	RC	100HA1A	0	ND	0000 2359	
427.00	12	ALG	TEBESSA	ALG	008E03 35N27	100	RC	100HA1A	0	ND	0000 2359	
427.00	12	ALG	TINDOUF	ALG	008W10 27N42	200	RC	100HA1A	15	ND	0000 2359	
427.00	12	BUL	BOURGAS	BUL	027E30 42N33	30	RC	100HA1A	-16	ND	0000 2359	
427.00	12	CME	EBOLOWA	CME	011E11 02N51	180	RC	100HA1A	13	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
	Assigned frequency (kHz)	Channel number	Country symbol	Transmitting station name	Symbol of the country or geographical area in which the station is located	Longitude and latitude of the transmitting station	Radius (km) of the circular service area	Nature of service	Necessary bandwidth and class of emission	Effective monopole radiated power (e.m.r.p.) (dBW)	Antenna characteristics (ND)	Normal hours of operation (UTC)	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
427.00	12	D	ALLENDORF-EDER	D	008E41 51N02	50	RC	2K14A2A	-8	ND	0000 2359	
427.00	12	D	BRAUNSCHWEIG	D	010E36 52N19	40	RC	2K14A2A	-12	ND	0000 2359	
427.00	12	DDR	WORMLAGE	DDR	013E54 51N37	80	RC	2K14A2A	-3	ND	0000 2359	
427.00	12	DNK	KASTRUP	DNK	012E41 55N36	50	RC	850HA2A	-8	ND	0000 2359	
427.00	12	E	FUERTEVENTURA	CNR	013W52 28N27	110	RC	2K14A2A	6	ND	0000 2359	
427.00	12	F	AUBENAS RUOMS	F	004E22 44N27	40	RC	100HA1A	-12	ND	0000 2359	
427.00	12	F	BROYES LES PESMES	F	005E32 47N20	90	RC	100HA1A	-2	ND	0000 2359	
427.00	12	F	FLERS	F	000W36 48N45	40	RC	100HA1A	-12	ND	0000 2359	
427.00	12	F	ROYAN	F	000W58 45N38	40	RC	100HA1A	-12	ND	0000 2359	
427.00	12	F	S SIMON	F	003E12 49N45	90	RC	100HA1A	-2	ND	0000 2359	
427.00	12	F	TARBES RICAUD	F	000E17 43N09	40	RC	100HA1A	-12	ND	0000 2359	
427.00	12	FNL	KEMIJARVI	FNL	027E10 66N43	90	RC	100HA1A	-2	ND	0000 2359	
427.00	12	G	BRAWDY	G	005W07 51N53	50	RC	850HA2A	-8	ND	0000 2359	
427.00	12	G	PLATFORM DP4	G	003W34 53N53	40	RC	850HA2A	-12	ND	0000 2359	
427.00	12	GRC	KERKIRA	GRC	019E55 39N35	40	RC	850HA2A	-12	ND	0000 2359	
427.00	12	HOL	TEXEL	HOL	004E50 53N07	30	RC	2K14A2A	-16	ND	0000 2359	
427.00	12	I	FERRARA	I	011E37 44N49	90	RC	2K14A2A	-2	ND	0000 2359	
427.00	12	IRL	DUNDALK	IRL	006W25 54N00	40	RC	2K14A2A	-12	ND	0000 2359	
427.00	12	MDG	MANANARA	MDG	049E46 16S10	90	RC	100HA1A	3	ND	0300 1500	
427.00	12	MDG	MANJA	MDG	044E19 21S25	90	RC	100HA1A	3	ND	0300 1500	
427.00	12	POL	CIECHANOW	POL	020E38 52N51	70	RC	2K14A2A	-5	ND	0000 2359	
427.00	12	POL	NOWY SACZ	POL	020E38 49N45	70	RC	2K14A2A	-5	ND	0000 2359	
427.00	12	S	LUNDE	S	017E50 62N53	50	RC	850HA2A	-8	ND	0000 2359	
427.00	12	URS	MOGILEV	BLR	030E17 53N55	150	RC	2K14A2A	5	ND	0000 2359	
427.00	12	URS	EISK	URS	038E16 46N40	150	RC	2K14A2A	5	ND	0000 2359	
427.00	12	YUG	SKOPJE	YUG	021E30 41N55	20	RC	2K14A2A	-19	ND	0000 2359	
427.00	12	ZAI	ILEBO	ZAI	020E36 04S19	90	RC	2K14A2A	3	ND	0500 1600	
428.00	13	ALG	ORAN ES SENIA	ALG	000W35 35N39	100	RC	100HA1A	0	ND	0000 2359	
428.00	13	CME	BANYO	CME	011E50 06N44	100	RC	100HA1A	5	ND	0000 2359	
428.00	13	CTI	MAN	CTI	007W32 07N23	200	RC	2K14A2A	15	ND	0000 2359	
428.00	13	CYP	NICOSIA	CYP	033E33 34N49	30	RC	2K14A2A	-16	ND	0000 2359	
428.00	13	D	SEMBACH	D	008E03 49N34	50	RC	2K14A2A	-8	ND	0000 2359	
428.00	13	D	STEUTZEN	D	012E03 49N40	50	RC	2K14A2A	-8	ND	0000 2359	
428.00	13	D	WITTMUNDHAVEN	D	007E48 53N34	90	RC	2K14A2A	-2	ND	0000 2359	
428.00	13	E	SEVILLA/MORON	E	005W34 37N18	70	RC	2K14A2A	-5	ND	0000 2359	
428.00	13	E	SORIA	E	002W28 41N49	40	RC	2K14A2A	-12	ND	0000 2359	
428.00	13	F	CHATEAUROUX	F	001E48 46N56	90	RC	850HA2A	-2	ND	0000 2359	
428.00	13	F	FREJUS	F	006E44 43N25	50	RC	100HA1A	-8	ND	0000 2359	
428.00	13	F	LANVEOC	F	004W24 48N16	90	RC	100HA1A	-2	ND	0000 2359	
428.00	13	FNL	IISALMI	FNL	027E08 63N38	90	RC	100HA1A	-2	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
428.00	13	FNL	KUMLINGE	FNL	020E48 60N15	90	RC	100HA1A	-2	ND	0000 2359	
428.00	13	G	PLATFORM MESA	G	003W05 58N07	40	RC	850HA2A	-12	ND	0000 2359	
428.00	13	G	SAINT ABBS	G	002W12 55N56	70	RC	850HA2A	-5	ND	0000 2359	
428.00	13	G	WESTCOTT	G	000W58 51N51	60	RC	850HA2A	-6	ND	0000 2359	
428.00	13	GHA	KADE	GHA	000W54 06N09	20	RC	2K14A2A	-14	ND	0000 2359	
428.00	13	HNG	PECS	HNG	018E15 45N58	100	RC	850HA2A	0	ND	0600 2000	
428.00	13	HOL	BUDEL	HOL	005E30 51N15	30	RC	2K14A2A	-16	ND	0000 2359	
428.00	13	IRL	CORK	IRL	008W30 51N50	40	RC	2K14A2A	-12	ND	0000 2359	
428.00	13	KEN	MANDERA	KEN	045E03 01N50	360	RC	2K14A2A	26	ND	0000 2359	
428.00	13	KEN	NAIROBI	KEN	036E52 01S16	360	RC	2K14A2A	26	ND	0000 2359	
428.00	13	MDG	ANTSALOVA	MDG	044E37 18S42	90	RC	100HA1A	3	ND	0300 1500	
428.00	13	MLT	LUCA	MLT	014E10 35N05	300	RC	2K14A2A	17	ND	0000 2359	
428.00	13	MRC	AZILAL	MRC	006W35 31N50	100	RC	2K14A2A	0	ND	0000 2359	
428.00	13	ROU	SATU MARE	ROU	022E53 47N41	30	RC	2K14A2A	-16	ND	0000 2359	
428.00	13	S	SAATENAES	S	012E43 58N23	50	RC	850HA2A	-8	ND	0000 2359	
428.00	13	TCH	SLIAC	TCH	019E08 48N37	40	RC	2K14A2A	-12	ND	0000 2359	
428.00	13	TGO	SANSANNE MANGO	TGO	029E00 10N22	90	RC	2K14A2A	3	ND	0020 2359	
428.00	13	URS	IVANOFRANKOVSK	UKR	024E42 48N56	50	RC	2K14A2A	-8	ND	0000 2359	
428.00	13	URS	VINNITSA	UKR	028E30 49N15	80	RC	2K14A2A	-3	ND	0000 2359	
428.00	13	URS	MAKHATCHKALA	URS	047E31 42N59	150	RC	2K14A2A	5	ND	0000 2359	
428.00	13	URS	MURMANSK	URS	032E46 68N58	50	RC	2K14A2A	-8	ND	0000 2359	
428.00	13	URS	VYBORG	URS	028E46 60N42	40	RC	2K14A2A	-12	ND	0000 2359	
428.00	13	YUG	DOMANOVICI	YUG	017E51 43N08	20	RC	2K14A2A	-19	ND	0000 2359	
429.00	14	ALG	EL GOLEA	ALG	002E52 30N35	300	RC	100HA1A	17	ND	0000 2359	
429.00	14	ALG	IN GUEZZAN	ALG	005E46 19N34	300	RC	100HA1A	22	ND	0000 2359	
429.00	14	ALG	SETIF	ALG	005E25 36N36	100	RC	100HA1A	0	ND	0000 2359	
429.00	14	BEN	SAVE AEROPORT	BEN	002E31 08N47	100	RC	2K14A2A	5	ND	0000 2359	
429.00	14	CME	WAZA	CME	014E32 11N21	50	RC	100HA1A	-3	ND	0000 2359	
429.00	14	D	GIEBELSTADT	D	009E59 49N39	30	RC	2K14A2A	-16	ND	0000 2359	
429.00	14	D	OBERPFAFFENHOFEN	D	011E17 48N05	50	RC	2K14A2A	-8	ND	0000 2359	
429.00	14	DDR	REINSDORF	DDR	012E36 51N55	20	RC	2K14A2A	-19	ND	0000 2359	
429.00	14	DNK	KIRSTINESMINDE	DNK	010E10 56N12	50	RC	850HA2A	-8	ND	0000 2359	
429.00	14	E	ALICANTE	E	000W33 38N18	90	RC	2K14A2A	-2	ND	0000 2359	
429.00	14	E	PLATFORM CASABLANCA	E	001E21 40N43	40	RC	2K14A2A	-12	ND	0000 2359	
429.00	14	F	BIVILLE	F	001W49 49N37	40	RC	100HA1A	-12	ND	0000 2359	
429.00	14	F	VILLENEUVE SUR LOT	F	000E46 44N24	40	RC	100HA1A	-12	ND	0000 2359	
429.00	14	FNL	AAVAHELUKKA	FNL	023E59 67N36	90	RC	100HA1A	-2	ND	0000 2359	
429.00	14	FNL	MENKIJARVI	FNL	023E31 62N57	50	RC	850HA2A	-8	ND	0000 2359	
429.00	14	GRC	LIMNOS	GRC	024E15 39N55	280	RC	850HA2A	16	ND	0000 2359	
429.00	14	IRL	BALDONNEL	IRL	006W27 53N18	40	RC	2K14A2A	-12	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
429.00	14	IRL	MOB 1	IRL	011W00 53N00	90	RC	2K14A2A	-2	ND	0000 2359	
429.00	14	LBY	HAMADA	LBY	012E50 29N32	150	RC	2K14A2A	10	ND	0000 2359	
429.00	14	LBY	TOBRUK	LBY	023E59 32N06	140	RC	2K14A2A	4	ND	0000 2359	
429.00	14	MAU	AGALEGA N ISLAND	MAU	056E36 10S22	450	RC	850HA2A	32	ND	0400 1100	
429.00	14	MAU	FLIC EN FLAC	MAU	057E22 20S17	200	RC	850HA2A	15	ND	0000 2359	
429.00	14	POL	POZNAN LAWICA	POL	016E57 52N24	80	RC	2K14A2A	-3	ND	0000 2359	
429.00	14	POL	STALOWA WOLA	POL	022E00 50N38	90	RC	2K14A2A	-2	ND	0000 2359	
429.00	14	ROU	CONSTANTA	ROU	028E29 44N20	40	RC	2K14A2A	-12	ND	0000 2359	
429.00	14	SUI	LOCARNO	SUI	008E53 46N10	40	RC	2K14A2A	-12	ND	0000 2359	
429.00	14	TCD	SARH	TCD	018E23 09N09	200	RC	2K14A2A	15	ND	0000 2359	
429.00	14	TCH	BRATISLAVA	TCH	017E14 48N11	40	RC	2K14A2A	-12	ND	0000 2359	
429.00	14	TCH	BRNO	TCH	016E46 49N09	40	RC	2K14A2A	-12	ND	0000 2359	
429.00	14	TCH	PRAHA/MIDDLE	TCH	014E18 50N05	40	RC	2K14A2A	-12	ND	0000 2359	
429.00	14	URS	DONETSK	UKR	037E48 47N56	150	RC	2K14A2A	5	ND	0000 2359	
429.00	14	URS	GALI	URS	041E45 42N38	150	RC	2K14A2A	5	ND	0000 2359	
429.00	14	YUG	MALI LOSINJ	YUG	014E28 44N32	100	RC	2K14A2A	0	ND	0000 2359	
429.50		CME	NGOILA	CME	014E00 02N37	100	RC	100HA1A	5	ND	0000 2359	
430.00	15	AFS	GIYANI	AFS	030E40 23S22	100	RC	2K14A2A	5	ND	0000 2359	
430.00	15	AFS	GIYANI	AFS	030E40 23S22	100	RC	2K14A2A	5	ND	0000 2359	
430.00	15	AFS	JAN SMUTS	AFS	028E13 26S14	100	RC	2K14A2A	5	ND	0000 2359	
430.00	15	ALG	TIARET	ALG	001E28 35N21	100	RC	100HA1A	0	ND	0000 2359	
430.00	15	BEL	ANTWERPEN	BEL	004E24 51N11	40	RC	2K14A2A	-12	ND	0000 2359	
430.00	15	CPV	SAL	CPV	022W54 16N42	500	RC	2K14A2A	35	ND	0000 2359	
430.00	15	CTI	BOUNA	CTI	005W02 09N16	200	RC	2K14A2A	15	ND	0000 2359	
430.00	15	D	BREMGARTEN	D	007E38 47N55	90	RC	2K14A2A	-2	ND	0000 2359	
430.00	15	DDR	BERLIN SCHOENEFELD	DDR	013E33 52N23	20	RC	2K14A2A	-19	ND	0000 2359	
430.00	15	DDR	BERLIN SCHOENEFELD	DDR	013E28 52N22	20	RC	2K14A2A	-19	ND	0000 2359	
430.00	15	F	AIX LES MILLES	F	005E22 43N31	40	RC	100HA1A	-12	ND	0000 2359	
430.00	15	F	PARIS ORLY CHEVANNES	F	002E28 48N33	40	RC	850HA2A	-12	ND	0000 2359	
430.00	15	F	S YAN BRIANT	F	004E07 46N18	40	RC	100HA1A	-12	ND	0000 2359	
430.00	15	FNL	FORSSA	FNL	023E39 60N48	90	RC	100HA1A	-2	ND	0000 2359	
430.00	15	FNL	HAILUOTO	FNL	024E42 64N58	90	RC	100HA1A	-2	ND	0000 2359	
430.00	15	G	BOSCOMBE DOWN	G	001W46 51N11	50	RC	850HA2A	-8	ND	0000 2359	
430.00	15	G	NOTTINGHAM	G	001W05 52N55	20	RC	850HA2A	-19	ND	0000 2359	
430.00	15	G	OIL PLAT MCP 01	G	000W17 58N50	60	RC	850HA2A	-6	ND	0000 2359	
430.00	15	G	OIL PLT AMOCO 49/27F	G	002E19 53N02	40	RC	850HA2A	-12	ND	0000 2359	
430.00	15	GAB	LAMBARENE	GAB	010E14 00S43	50	RC	100HA1A	-3	ND	0000 2359	
430.00	15	HNG	BUGAC	HNG	019E41 46N41	100	RC	2K14A2A	0	ND	0000 2359	
430.00	15	HOL	HOOGEVEEN	HOL	006E31 52N44	30	RC	2K14A2A	-16	ND	0000 2359	
430.00	15	MDG	MALAIMBANDY	MDG	045E33 20S21	90	RC	100HA1A	3	ND	0300 1500	

1	2	3	4	5	6	7	8	9	10	11	12	13
430.00	15	MDG	MANDRITSARA	MDG	048E50 15S50	90	RC	100HA1A	3	ND	0300 1500	
430.00	15	MRC	GUELMIM	MRC	005W40 33N52	100	RC	2K14A2A	0	ND	0000 2359	
430.00	15	MRC	GUELTAT ZEMMOUR	MRC	012W25 25N10	300	RC	2K14A2A	22	ND	0000 2359	
430.00	15	MRC	MARRAKECH	MRC	008W15 31N05	100	RC	2K14A2A	0	ND	0000 2359	
430.00	15	POR	ALVERCA	POR	009W02 38N54	300	RC	100HA1A	17	ND	0000 2359	
430.00	15	ROU	BUCURESTI/BANEASA	ROU	026E08 44N30	30	RC	2K14A2A	-16	ND	0000 2359	
430.00	15	TGO	SANSANNE MANGO	TGO	029E00 10N22	90	RC	2K14A2A	3	ND	0020 2359	
430.00	15	TUN	MONASTIR SKANES	TUN	010E47 37N46	90	RC	850HA2A	-2	ND	0000 2359	
430.00	15	TUR	ERZINCAN	TUR	039E31 39N43	70	RC	2K14A2A	-5	ND	0000 2359	
430.00	15	URS	GOMEL	BLR	031E01 52N25	150	RC	2K14A2A	5	ND	0000 2359	
430.00	15	URS	JITOMIR	UKR	028E20 50N16	50	RC	2K14A2A	-8	ND	0000 2359	
430.00	15	URS	ARKHANGHELSK	URS	040E12 64N33	50	RC	2K14A2A	-8	ND	0000 2359	
430.00	15	URS	NOVGOROD	URS	031E18 58N32	50	RC	2K14A2A	-8	ND	0000 2359	
430.00	15	URS	PETROZAVODSK	URS	034E04 61N47	150	RC	2K14A2A	5	ND	0000 2359	
431.00	16	ALG	CHENACHENE	ALG	004W13 26N03	200	RC	100HA1A	15	ND	0000 2359	
431.00	16	AUT	VILLACH	AUT	013E55 46N42	110	RC	2K14A2A	1	ND	0000 2359	
431.00	16	BUL	TOLBOUHIN	BUL	027E50 43N35	30	RC	100HA1A	-16	ND	0000 2359	
431.00	16	CME	DOUALA	CME	009E43 04N01	180	RC	100HA1A	13	ND	0000 2359	
431.00	16	CME	NGAOUNDERE	CME	013E34 07N22	180	RC	2K14A2A	13	ND	0000 2359	
431.00	16	CTI	SAN-PEDRO	CTI	006W39 04N44	200	RC	2K14A2A	15	ND	0000 2359	
431.00	16	D	BARMEN	D	007E11 51N20	60	RC	2K14A2A	-6	ND	0000 2359	
431.00	16	D	DEINING	D	011E33 49N13	50	RC	2K14A2A	-8	ND	0000 2359	
431.00	16	DDR	LANDSBERG	DDR	011E42 52N30	50	RC	2K14A2A	-8	ND	0000 2359	
431.00	16	DNK	ROSKILDE	DNK	012E11 55N38	50	RC	850HA2A	-8	ND	0000 2359	
431.00	16	F	CASTRES	F	002E17 43N33	40	RC	100HA1A	-12	ND	0000 2359	
431.00	16	G	PLATFORM DP3	G	003W28 53N48	40	RC	850HA2A	-12	ND	0000 2359	
431.00	16	G	UNST	G	000W51 60N45	40	RC	850HA2A	-12	ND	0000 2359	
431.00	16	GHA	ACCRA	GHA	000W08 05N40	250	RC	2K14A2A	18	ND	0000 2359	
431.00	16	GRC	IRAKLION	GRC	025E11 35N20	280	RC	850HA2A	16	ND	0000 2359	
431.00	16	LBY	MISURATA	LBY	015E13 32N22	40	RC	2K14A2A	-12	ND	0000 2359	
431.00	16	MDG	MORAFENOBE	MDG	045E55 17S51	90	RC	100HA1A	3	ND	0300 1500	
431.00	16	POL	STRZELIN	POL	016E55 51N18	50	RC	850HA2A	-8	ND	0000 2359	
431.00	16	POL	WAPNICA	POL	015E28 53N17	50	RC	850HA2A	-8	ND	0000 2359	
431.00	16	ROU	IASI	ROU	027E35 47N14	90	RC	2K14A2A	-2	ND	0000 2359	
431.00	16	TUN	JERBA MELITA AEROPOR	TUN	010E45 33N52	180	RC	850HA2A	8	ND	0000 2359	
431.00	16	TUR	KARS	TUR	043E06 40N37	70	RC	2K14A2A	-5	ND	0000 2359	
431.00	16	URS	PERVOMAISK	UKR	030E13 50N27	50	RC	2K14A2A	-8	ND	0000 2359	
431.00	16	URS	RIGA	URS	024E07 56N58	30	RC	2K14A2A	-16	ND	0000 2359	
431.00	16	URS	SOTCHI	URS	039E42 43N35	150	RC	2K14A2A	5	ND	0000 2359	
432.00	17	ALG	ADRAR	ALG	000W14 27N46	100	RC	100HA1A	5	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
432.00	17	ALG	ORAN ES SENIA	ALG	000W38 35N39	100	RC	100HA1A	0	ND	0000 2359	
432.00	17	ALG	TINDOUF	ALG	008W10 35N02	100	RC	100HA1A	0	ND	0000 2359	
432.00	17	BEN	DJOUGOU AEROPORT	BEN	001E40 09N42	100	RC	100HA1A	5	ND	0000 2359	
432.00	17	CYP	LARNACA	CYP	033E33 34N49	150	RC	2K14A2A	5	ND	0000 2359	
432.00	17	D	HANAU	D	008E57 50N10	50	RC	2K14A2A	-8	ND	0000 2359	
432.00	17	D	LEMWERDER	D	008E37 53N08	50	RC	2K14A2A	-8	ND	0000 2359	
432.00	17	DDR	BRONKOW	DDR	013E58 51N40	50	RC	2K14A2A	-8	ND	0000 2359	
432.00	17	DNK	KARUP	DNK	008E59 56N18	50	RC	850HA2A	-8	ND	0000 2359	
432.00	17	E	LAS PALMAS	CNR	015W24 27N58	180	RC	2K14A2A	13	ND	0000 2359	
432.00	17	E	NAVAS DEL REY	E	004W15 40N22	60	RC	2K14A2A	-6	ND	0000 2359	
432.00	17	E	PROTECCION CIVIL	E	003W42 40N25	200	RC	2K14A2A	10	ND	0000 2359	
432.00	17	F	ROCROI	F	004E25 49N55	90	RC	100HA1A	-2	ND	0000 2359	
432.00	17	F	SISTERON	F	005E56 44N17	40	RC	100HA1A	-12	ND	0000 2359	
432.00	17	F	USSEL THALAMY	F	002E25 45N33	90	RC	100HA1A	-2	ND	0000 2359	
432.00	17	FNL	SODANKYLA	FNL	026E37 67N24	90	RC	100HA1A	-2	ND	0000 2359	
432.00	17	G	LEE ON SOLENT	G	001W12 50N49	20	RC	850HA2A	-19	ND	0000 2359	
432.00	17	GHA	TAMALE	GHA	000W53 09N26	20	RC	2K14A2A	-14	ND	0000 2359	
432.00	17	HOL	OILRIG	HOL	004E20 53N25	50	RC	2K14A2A	-8	ND	0000 2359	
432.00	17	I	VILLAFRANCA	I	010E47 45N19	90	RC	2K14A2A	-2	ND	0000 2359	
432.00	17	IRL	PLATFORM 6	IRL	011W00 53N00	40	RC	2K14A2A	-12	ND	0000 2359	
432.00	17	KEN	NAIROBI	KEN	036E49 01S17	150	RC	2K14A2A	10	ND	0000 2359	
432.00	17	LBY	GIALLO	LBY	021E26 28N42	300	RC	2K14A2A	22	ND	0000 2359	
432.00	17	MDG	BEALANANA	MDG	048E42 14S33	90	RC	100HA1A	3	ND	0300 1500	
432.00	17	MRC	ERRACHIDIA	MRC	004W25 31N45	200	RC	2K14A2A	10	ND	0000 2359	
432.00	17	POL	OSIELCINY	POL	018E43 52N38	50	RC	850HA2A	-8	ND	0000 2359	
432.00	17	ROU	CRAIOVA	ROU	023E53 44N19	150	RC	2K14A2A	5	ND	0000 2359	
432.00	17	TCH	BRATISLAVA-IVANKA	TCH	017E10 48N08	40	RC	2K14A2A	-12	ND	0000 2359	
432.00	17	TGO	SANSANNE MANGO	TGO	029E00 10N22	90	RC	2K14A2A	3	ND	0020 2359	
432.00	17	TUR	BEYKOZ	TUR	029E10 41N10	140	RC	2K14A2A	4	ND	0000 2359	
432.00	17	TUR	GAZIANTEP	TUR	037E28 36N57	70	RC	2K14A2A	-5	ND	0000 2359	
432.00	17	URS	VITEBSK	BLR	030E11 55N13	150	RC	2K14A2A	5	ND	0000 2359	
432.00	17	URS	BOBRKA	UKR	024E16 49N39	150	RC	2K14A2A	5	ND	0000 2359	
432.00	17	URS	MELITOPOL	UKR	035E22 46N50	50	RC	2K14A2A	-8	ND	0000 2359	
432.00	17	YUG	OHRID	YUG	020E40 41N13	50	RC	2K14A2A	-8	ND	0000 2359	
432.00	17	YUG	SARAJEVO	YUG	018E27 43N56	90	RC	2K14A2A	-2	ND	0000 2359	
433.00	18	AFS	WELCOM	AFS	026E42 27S58	180	RC	2K14A2A	13	ND	0000 2359	
433.00	18	ALG	CONSTANTINE	ALG	006E47 36N11	300	RC	100HA1A	17	ND	0000 2359	
433.00	18	ALG	ILLIZI	ALG	008E29 26N30	300	RC	100HA1A	22	ND	0000 2359	
433.00	18	BEN	COTONOU AEROPORT	BEN	002E25 06N23	50	RC	2K14A2A	-3	ND	0000 2359	
433.00	18	BUL	HASKOVO	BUL	025E23 41N56	30	RC	100HA1A	-16	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
433.00	18	CME	AKWAYA	CME	009E34 06N24	100	RC	100HA1A	5	ND	0000 2359	
433.00	18	CME	BERTOUA	CME	013E44 04N32	180	RC	100HA1A	13	ND	0000 2359	
433.00	18	CME	MAROUA	CME	014E15 10N27	200	RC	2K14A2A	15	ND	0000 2359	
433.00	18	CTI	ABENGOUROU	CTI	003W29 06N44	200	RC	2K14A2A	15	ND	0000 2359	
433.00	18	DDR	HAMMERSTEDT	DDR	011E29 50N57	40	RC	2K14A2A	-12	ND	0000 2359	
433.00	18	E	JEREZ	E	006W01 36N50	90	RC	2K14A2A	-2	ND	0000 2359	
433.00	18	E	PLATFORM CASTELLON	E	001E19 40N41	40	RC	2K14A2A	-12	ND	0000 2359	
433.00	18	E	VIGO	E	008W45 42N16	90	RC	2K14A2A	-2	ND	0000 2359	
433.00	18	F	HAGUENAU	F	007E49 48N48	40	RC	100HA1A	-12	ND	0000 2359	
433.00	18	F	S SYMPHORIEN	F	004E56 45N39	40	RC	100HA1A	-12	ND	0000 2359	
433.00	18	F	VALDAHON	F	006E20 47N10	40	RC	100HA1A	-12	ND	0000 2359	
433.00	18	FNL	HANKO	FNL	023E05 59N51	90	RC	100HA1A	-2	ND	0000 2359	
433.00	18	FNL	VAALA	FNL	026E46 64N30	90	RC	100HA1A	-2	ND	0000 2359	
433.00	18	G	CRANFIELD	G	000W33 52N08	30	RC	850HA2A	-16	ND	0000 2359	
433.00	18	G	PLATFORM SHELL DD	G	002E11 53N01	40	RC	850HA2A	-12	ND	0000 2359	
433.00	18	GRC	ALONISSOS	GRC	023E55 39N15	60	RC	850HA2A	-6	ND	0000 2359	
433.00	18	HOL	TEUGE	HOL	006E03 52N15	30	RC	2K14A2A	-16	ND	0000 2359	
433.00	18	MAU	NOUVELLE FRANCE	MAU	057E44 20S21	200	RC	850HA2A	15	ND	0000 2359	
433.00	18	MDG	IHOSY	MDG	046E10 22S24	90	RC	100HA1A	3	ND	0300 1500	
433.00	18	MRC	MAHBES	MRC	009W05 27N15	300	RC	100HA1A	22	ND	0000 2359	
433.00	18	POL	KETRZYN	POL	021E25 54N02	100	RC	850HA2A	0	ND	0000 2359	
433.00	18	ROU	CONSTANTA	ROU	028E37 44N28	90	RC	2K14A2A	-2	ND	0000 2359	
433.00	18	TCH	CHOCEN	TCH	016E08 50N00	90	RC	2K14A2A	-2	ND	0000 2359	
433.00	18	TUR	DENIZLI/CARDAK	TUR	029E41 37N52	70	RC	2K14A2A	-5	ND	0000 2359	
433.00	18	URS	SIMFEROPOL	UKR	034E06 44N56	150	RC	2K14A2A	5	ND	0000 2359	
433.00	18	URS	MINERALNYE VODY	URS	043E09 44N13	50	RC	2K14A2A	-8	ND	0000 2359	
433.00	18	URS	PSKOV	URS	028E00 57N43	50	RC	2K14A2A	-8	ND	0000 2359	
433.00	18	URS	ZAKATALY	URS	046E40 41N38	150	RC	2K14A2A	5	ND	0000 2359	
433.00	18	YUG	CRES	YUG	014E25 44N54	100	RC	2K14A2A	0	ND	0000 2359	
433.00	18	ZAI	BOSONDJO	ZAI	021E47 01N15	90	RC	2K14A2A	3	ND	0500 1600	
433.00	18	ZAI	LUEBO	ZAI	021E30 05S21	90	RC	2K14A2A	3	ND	0500 1600	
434.00	19	AGL	PORTO AMBOIM	AGL	013E46 10S43	140	RC	2K00A2A	9	ND	0000 2359	
434.00	19	ALG	EL BAYAD	ALG	001E01 33N41	100	RC	100HA1A	0	ND	0000 2359	
434.00	19	BEN	KANDI AEROPORT	BEN	002E56 11N08	100	RC	100HA1A	5	ND	0000 2359	
434.00	19	BEN	SAVE AEROPORT	BEN	002E31 07N47	50	RC	100HA1A	-3	ND	0000 2359	
434.00	19	BUL	SOFIA	BUL	023E24 42N41	50	RC	100HA1A	-8	ND	0000 2359	
434.00	19	D	SCHWAEBISCH GMUEND	D	009E48 48N50	30	RC	2K00A2A	-16	ND	0000 2359	
434.00	19	DDR	BARNEWITZ	DDR	012E37 52N29	50	RC	2K00A2A	-8	ND	0000 2359	
434.00	19	DNK	TIRSTRUP	DNK	010E29 56N19	50	RC	850HA2A	-8	ND	0000 2359	
434.00	19	F	MELUN VILLAROCHE	F	002E38 48N37	40	RC	100HA1A	-12	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
3	Country symbol
4	Transmitting station name
5	Symbol of the country or geographical area in which the station is located
6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
434.00	19	G	PLATFORM DP1	G	003W35 53N51	40	RC	850HA2A	-12	ND	0000 2359	
434.00	19	HNG	KISKUNFELEGYHAZA	HNG	019E53 46N43	100	RC	850HA2A	0	ND	0500 1900	
434.00	19	HOL	THORN	HOL	005E50 51N11	30	RC	2K00A2A	-16	ND	0000 2359	
434.00	19	LBY	NALUT	LBY	010E59 31N52	140	RC	2K00A2A	4	ND	0000 2359	
434.00	19	MDG	ANKAVANDRA	MDG	045E17 18S48	90	RC	100HA1A	3	ND	0300 1500	
434.00	19	MRC	CASABLANCA NOUASSER	MRC	007W34 32N00	100	RC	2K00A2A	0	ND	0000 2359	
434.00	19	MRC	TAZA	MRC	004W10 34N08	90	RC	2K00A2A	-2	ND	0000 2359	
434.00	19	POL	KROSNO	POL	021E44 49N41	40	RC	2K00A2A	-12	ND	0000 2359	
434.00	19	POL	REPLINO	POL	016E56 52N24	70	RC	850HA2A	-5	ND	0000 2359	
434.00	19	ROU	BUCURESTI/BANEASA	ROU	026E04 44N30	30	RC	2K00A2A	-16	ND	0000 2359	
434.00	19	ROU	CLUJ-NAPOCA	ROU	023E43 46N46	30	RC	2K00A2A	-16	ND	0000 2359	
434.00	19	SUI	BIRRFELD	SUI	008E14 47N27	40	RC	2K00A2A	-12	ND	0000 2359	
434.00	19	TCH	MARIANSKE LAZNE	TCH	012E43 49N56	40	RC	2K00A2A	-12	ND	0000 2359	
434.00	19	TUR	ERZURUM/MUDURGE	TUR	041E20 39N58	120	RC	2K00A2A	2	ND	0000 2359	
434.00	19	TUR	ISKENDERUN	TUR	036E05 36N35	70	RC	2K00A2A	-5	ND	0000 2359	
434.00	19	URS	MINSK	BLR	027E31 53N53	90	RC	2K00A2A	-2	ND	0000 2359	
434.00	19	URS	DNEPROPETROVSK	UKR	035E00 48N29	90	RC	2K00A2A	-2	ND	0000 2359	
434.00	19	URS	TCHERNIAKHOV	UKR	028E42 50N27	50	RC	2K00A2A	-8	ND	0000 2359	
434.00	19	URS	ARMAVIR	URS	040E49 45N00	50	RC	2K00A2A	-8	ND	0000 2359	
434.00	19	URS	GORKA	URS	032E22 59N48	150	RC	2K00A2A	5	ND	0000 2359	
434.00	19	URS	SHAULAY	URS	023E15 55N56	50	RC	2K00A2A	-8	ND	0000 2359	
511.00	21	ALG	HASSI EL KHEBI	ALG	005W16 29N11	100	RC	100HA1A	7	ND	0000 2359	
511.00	21	ALG	IN AMENAS	ALG	009E37 28N03	300	RC	100HA1A	26	ND	0000 2359	
511.00	21	FNL	JAKALAPAA	FNL	025E45 68N43	90	RC	100HA1A	0	ND	0000 2359	
511.00	21	LBY	WARE HOUSE 59E	LBY	021E26 28N40	100	RC	2K14A2A	7	ND	0000 2359	1
511.00	21	ROU	BAIA MARE	ROU	023E26 47N40	40	RC	2K14A2A	-11	ND	0000 2359	1
511.00	21	ROU	CRAIOVA	ROU	023E55 44N19	40	RC	2K14A2A	-11	ND	0000 2359	1
511.00	21	TCD	PALA	TCD	014E56 09N23	180	RC	2K14A2A	17	ND	0000 2359	1
511.00	21	URS	ORIOL	URS	035E45 53N00	150	RC	2K14A2A	8	ND	0000 2359	1
511.00	21	ZAI	KAPANGA	ZAI	022E39 08S21	90	RC	2K14A2A	5	ND	0500 1600	1
511.00	21	ZAI	WATSA	ZAI	021E33 03N00	90	RC	2K14A2A	5	ND	0500 1600	1
513.00	22	ALG	GARADJEBILET	ALG	007W11 26N53	200	RC	100HA1A	19	ND	0000 2359	
513.00	22	CME	TIGNERE	CME	012E36 07N22	100	RC	100HA1A	7	ND	0000 2359	
513.00	22	KEN	NAIROBI	KEN	036E49 01S17	150	RC	2K14A2A	13	ND	0000 2359	
513.00	22	MAU	FLIC EN FLAC	MAU	057E22 20S17	50	RC	850HA2A	-2	ND	0000 2359	
513.00	22	ROU	CLUJ-NAPOCA	ROU	023E48 46N47	40	RC	2K14A2A	-11	ND	0000 2359	
513.00	22	ZAI	MWENE DITU	ZAI	023E05 06S59	90	RC	2K14A2A	5	ND	0500 1600	
514.00	23	BEN	DJOUGOU AEROPORT	BEN	001E40 09N42	90	RC	2K14A2A	5	ND	0000 2359	
514.00	23	CME	BAMENDA	CME	010E07 06N02	100	RC	2K14A2A	7	ND	0000 2359	
514.00	23	CTI	BONDOUKOU	CTI	002W42 08N01	200	RC	2K14A2A	19	ND	0000 2359	

1	2	3	4	5	6	7	8	9	10	11	12	13
514.00	23	GAB	BITAM	GAB	011E37 02N05	140	RC	100HA1A	12	ND	0000 2359	
514.00	23	GHA	ACCRA	GHA	000W11 05N34	20	RC	2K14A2A	-14	ND	0000 2359	
514.00	23	MDG	BEFANDRIANA	MDG	048E29 15S12	90	RC	100HA1A	5	ND	0300 1500	
514.00	23	ZAI	AKETI	ZAI	023E50 02N42	90	RC	2K14A2A	5	ND	0500 1600	
514.00	23	ZAI	BINGA	ZAI	020E30 02N26	90	RC	2K14A2A	5	ND	0500 1600	
514.00	23	ZAI	LUBERO	ZAI	029E15 00S08	90	RC	2K14A2A	5	ND	0500 1600	
515.00	24	ALG	IN GEZZAM	ALG	005E46 19N34	100	RC	100HA1A	7	ND	0000 2359	
515.00	24	ALG	TAMANRASSET	ALG	005E25 22N48	100	RC	100HA1A	7	ND	0000 2359	
515.00	24	BEN	KANDI AEROPORT	BEN	002E56 11N08	50	RC	2K14A2A	-2	ND	0000 2359	
515.00	24	ROU	SATU MARE	ROU	022E52 47N38	40	RC	2K14A2A	-11	ND	0000 2359	
515.00	24	URS	BALACHOV	URS	043E10 51N35	150	RC	2K14A2A	8	ND	0000 2359	
516.00	25	ALG	TIMIMOUN	ALG	000E17 29N14	100	RC	100HA1A	7	ND	0000 2359	
516.00	25	CME	BAFIA	CME	011E16 04N46	50	RC	100HA1A	-2	ND	0000 2359	
516.00	25	CME	KRIBI	CME	009E43 02N53	50	RC	2K14A2A	-2	ND	0000 2359	
516.00	25	CME	MEIGANGA	CME	014E16 06N33	100	RC	100HA1A	7	ND	0000 2359	
516.00	25	CTI	DALOA	CTI	006W28 06N52	200	RC	2K14A2A	19	ND	0000 2359	
516.00	25	ROU	SUCEAVA	ROU	026E24 47N45	40	RC	2K14A2A	-11	ND	0000 2359	
516.00	25	URS	BRIANSK	URS	034E02 53N14	150	RC	2K14A2A	8	ND	0000 2359	
516.00	25	ZAI	FUNGURUME	ZAI	026E19 10S32	90	RC	2K14A2A	5	ND	0500 1600	
517.00	26	BEN	COTONOU AEROPORT	BEN	002E25 06N23	50	RC	850HA2A	-2	ND	0000 2359	
517.00	26	BEN	PARAKOU AEROPORT	BEN	002E38 09N20	100	RC	850HA2A	7	ND	0000 2359	
517.00	26	BUL	PLEVEN	BUL	024E35 43N24	30	RC	100HA1A	-15	ND	0000 2359	
517.00	26	CME	MUDEMBA	CME	008E53 05N01	100	RC	100HA1A	7	ND	0000 2359	
517.00	26	GHA	NSAWAM	GHA	000W20 05N52	20	RC	850HA2A	-14	ND	0000 2359	
517.00	26	HNG	JASZBERENY	HNG	019E54 47N30	50	RC	850HA2A	-7	ND	0000 2359	
517.00	26	KEN	NAIROBI	KEN	036E52 01S22	100	RC	850HA2A	7	ND	0000 2359	
517.00	26	ROU	BUCURESTI/BANEASA	ROU	026E02 44N29	30	RC	850HA2A	-15	ND	0000 2359	
517.00	26	ROU	TIMISOARA	ROU	021E24 45N48	40	RC	850HA2A	-11	ND	0000 2359	
517.00	26	TCH	PROSTEJOV	TCH	017E06 49N30	50	RC	850HA2A	-7	ND	0000 2359	
517.00	26	ZAI	KODORO	ZAI	020E20 01N17	90	RC	850HA2A	5	ND	0500 1600	
519.00	27	ALG	CHENACHENE	ALG	004W13 26N03	100	RC	100HA1A	7	ND	0000 2359	
519.00	27	ALG	TAMANRASSET	ALG	005E25 22N48	300	RC	100HA1A	26	ND	0000 2359	
519.00	27	CME	BAFOUSSAM	CME	010E25 05N27	100	RC	100HA1A	7	ND	0000 2359	
519.00	27	CME	BATOURI	CME	014E22 04N28	180	RC	100HA1A	17	ND	0000 2359	
519.00	27	GHA	TAMALE	GHA	000W52 09N24	250	RC	850HA2A	23	ND	0000 2359	
519.00	27	TCH	POPRAD TATRY/WEST	TCH	020E16 49N04	40	RC	850HA2A	-11	ND	0000 2359	
519.00	27	ZAI	SANDOA	ZAI	022E56 09S42	90	RC	850HA2A	5	ND	0500 1600	
520.00	28	AGL	CAFUNFO	AGL	018E00 08S46	180	RC	2K14A2A	17	ND	0000 2359	
520.00	28	ALG	GARA DJEBILET	ALG	007W11 26N53	100	RC	100HA1A	7	ND	0000 2359	
520.00	28	BEN	COTONOU AEROPORT	BEN	002E25 06N23	100	RC	100HA1A	7	ND	0000 2359	

1	Assigned frequency (kHz)
2	Channel number
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6	Longitude and latitude of the transmitting station
7	Radius (km) of the circular service area
8	Nature of service
9	Necessary bandwidth and class of emission
10	Effective monopole radiated power (e.m.r.p.) (dBW)
11	Antenna characteristics (ND)
12	Normal hours of operation (UTC)
13	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13
520.00	28	HNG	BUDAORS	HNG	018E59 47N27	40	RC	2K14A2A	-11	ND	0000 2359	
520.00	28	URS	MUKHRANI	URS	044E34 41N55	90	RC	2K14A2A	0	ND	0000 2359	
520.00	28	URS	ORIOL	URS	035E45 53N00	50	RC	2K14A2A	-7	ND	0000 2359	
520.00	28	ZAI	LUIZA	ZAI	022E04 07S11	90	RC	2K14A2A	5	ND	0500 1600	
520.00	28	ZAI	N'SANGI	ZAI	015E19 05S36	90	RC	2K14A2A	5	ND	0500 1600	
520.00	28	ZAI	NWADINGUSHA	ZAI	027E12 10S45	90	RC	2K14A2A	5	ND	0500 1600	
521.00	29	BEN	PARAKOU AEROPORT	BEN	002E38 09N20	100	RC	100HA1A	7	ND	0000 2359	
521.00	29	CME	YAGOUA	CME	015E14 10N22	100	RC	100HA1A	7	ND	0000 2359	
521.00	29	CME	YAOUNDE	CME	011E31 03N50	100	RC	2K14A2A	7	ND	0000 2359	
521.00	29	GHA	TAKORADI	GHA	001W45 04N54	250	RC	2K14A2A	23	ND	0000 2359	
521.00	29	KEN	NAIROBI	KEN	036E49 01S17	150	RC	2K14A2A	13	ND	0000 2359	
521.00	29	URS	KALATCH	URS	040E40 50N26	50	RC	2K14A2A	-7	ND	0000 2359	
521.00	29	URS	MITCHURINSK	URS	040E11 52N54	50	RC	2K14A2A	-7	ND	0000 2359	
522.00	30	AGL	CABINDA	AGL	012E12 05S37	180	RC	2K14A2A	17	ND	0000 2359	
522.00	30	ALG	BORDJ OMAR DRISS	ALG	006E50 28N08	100	RC	100HA1A	7	ND	0000 2359	
522.00	30	CME	CAMPO	CME	009E56 02N22	50	RC	100HA1A	-2	ND	0000 2359	
522.00	30	CME	NGAOUNDAL	CME	013E23 06N24	100	RC	100HA1A	7	ND	0000 2359	
522.00	30	CME	NGUTI	CME	009E25 05N20	50	RC	100HA1A	-2	ND	0000 2359	
522.00	30	HNG	NYIREGYHAZA	HNG	021E42 48N00	20	RC	2K14A2A	-19	ND	0000 2359	
522.50		CME	GAROUA	CME	013E25 09N20	100	RC	2K14A2A	7	ND	0000 2359	
523.00	31	AFS	SAINT LUCIA	AFS	032E20 28S00	100	RC	2K14A2A	7	ND	0000 2359	
523.00	31	ALG	DJANET	ALG	009E26 24N16	100	RC	100HA1A	7	ND	0000 2359	
523.00	31	CME	MOULOUNDOU	CME	015E13 02N02	180	RC	100HA1A	17	ND	0000 2359	
523.00	31	CTI	YAMOUSSOUKRO	CTI	005W20 06N55	200	RC	2K14A2A	19	ND	0000 2359	
523.00	31	MRC	AGADIR	MRC	009W40 30N25	100	RC	2K14A2A	2	ND	0000 2359	
523.00	31	MRC	TARFAYA	MRC	012W55 27N57	100	RC	100HA1A	7	ND	0000 2359	
523.00	31	ZAI	IKELA	ZAI	023E17 01S12	90	RC	2K14A2A	5	ND	0500 1600	
523.00	31	ZAI	KABINDA	ZAI	024E20 06S07	90	RC	2K14A2A	5	ND	0500 1600	
524.00	32	CME	YAOUNDE	CME	011E31 03N50	180	RC	100HA1A	17	ND	0000 2359	
524.00	32	URS	MITCHURINSK	URS	040E11 52N54	150	RC	2K14A2A	8	ND	0000 2359	
525.00	33	AFS	SAINT LUCIA	AFS	032E20 28S00	100	RC	2K14A2A	7	ND	0000 2359	
525.00	33	GHA	KUMASI	GHA	001W35 06N45	20	RC	2K14A2A	-14	ND	0000 2359	
526.00	34	CME	KOUTABA	CME	010E45 05N39	50	RC	850HA2A	-2	ND	0000 2359	
526.00	34	ROU	TIMISOARA	ROU	021E18 45N49	30	RC	850HA2A	-15	ND	0000 2359	
526.00	34	TGO	NIAMTOUGOU	TGO	001E03 09N42	90	RC	850HA2A	5	ND	0000 2359	
526.00	34	URS	KURSK	URS	036E12 51N46	50	RC	850HA2A	-7	ND	0000 2359	

ANNEX 3

Channelling Arrangement

TABLE 1

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands between 415 and 526.5 kHz in Region 1

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz) [c]	Ship station (kHz)	Channel No.	Coast station (kHz) [c]	Ship station (kHz)
1	415.5		40	435.5	475.5	80	456.0 [a]	459.0 [a]
2	416.0		41	436.0	476.0	81	456.5 [a]	459.5 [a]
3	416.5		42	436.5	476.5	82	457.0 [a]	460.0 [a]
4	417.0		43	437.0	477.0	83		457.5 [b]
5	417.5		44	437.5	477.5	84 [e]	490.5	506.0
6	418.0		45	438.0	478.0	85 [e]	491.0	506.5
7	418.5		46	438.5	478.5	86 [e]	491.5	507.0
8	419.0		47	439.0	479.0	87 [e]	492.0	507.5
9	419.5		48	439.5	479.5	88 [e]	492.5	508.0
10	420.0		49	440.0	461.0	89 [e]	493.0	508.5
11	420.5		50	440.5	480.5	90 [e]	493.5	509.0
12	421.0		51	441.0	481.0	91 [e]	494.0	509.5
13	421.5		52	441.5	481.5	92 [e]	494.5	510.0
14	422.0		53	442.0	482.0	93	510.5	461.5
15	422.5		54	442.5	482.5	94	511.0	462.0
16	423.0	454.0 [c]	55	443.0	483.0	95	511.5	462.5
17	423.5		56	443.5	483.5	96	512.5	463.0
18	424.0	458.0 [c]	57	444.0	484.0	97	513.0	463.5
19	424.5		58	444.5	484.5	98	513.5	464.0
20	425.0 [d]	468.0 [c]	59	445.0	485.0	99	514.0	464.5
21	425.5	480.0 [c]	60	445.5	485.5	100	514.5	465.0
22	426.0		61	446.0	486.0	101	515.0	465.5
23	426.5	505.5 [c], [e]	62	446.5	486.5	102	515.5	466.0
24	427.0		63	447.0	487.0	103	516.0	466.5
25	427.5		64	447.5	487.5	104	516.5	467.0
26	428.0		65	448.0	488.0	105	517.0	467.5
27	428.5		66	448.5	488.5	106	519.0	460.5
28	429.0		67	449.0	489.0	107	519.5	468.5
29	429.5		68	449.5	489.5	108	520.0	469.0
30	430.0		69	450.0	450.0	109	520.5	469.5
31	430.5		70	450.5	450.5	110	521.0	470.0
32	431.0		71	451.0	451.0	111	521.5	470.5
33	431.5		72	451.5	451.5	112	522.0	471.0
34	432.0		73	452.0	452.0	113	522.5	471.5
35	432.5		74	452.5	452.5	114	523.0	472.0
36	433.0		75	453.0	453.0	115	523.5	472.5
37	433.5		76		453.5 [b]	116	524.0	473.0
38	434.0		77		454.5 [b]	117	524.5	473.5
39	434.5		78		455.0 [b]	118	525.0	474.0
			79	455.5 [a]	458.5 [a]	119	525.5	474.5
						120	526.0	475.0

[a] For DSC use: channel No. 79. For international use, channels Nos. 80-82. For national use, see also Resolution No. 5.

[b] For inter-ship use.

[c] A coast station has the right to transmit on its own assigned working frequency (paired) when it communicates with a ship station transmitting on one of the frequencies for Morse radiotelegraphy (454, 458, 468, 480 and 505.5 kHz) (see also No. 4237 of the Radio Regulations).

[d] See Recommendation No. 1.

[e] See Article 14 of this Agreement.

TABLE 2

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

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

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

* See Resolution No. 5.

NBDP = Narrow-band direct printing
DSC = Digital selective calling

TABLE 3

Channelling Arrangement for Single-Sideband Radiotelephony in the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz in Region 1

Channel No.	Coast station assigned frequency (carrier frequency) (kHz)	Ship station assigned frequency (carrier frequency) (kHz)	Channel No.	Coast station assigned frequency (carrier frequency) (kHz)	Ship station assigned frequency (carrier frequency) (kHz)
241	1636.4 (1635)	2061.4 (2060)	271	1726.4 (1725)	2070.4 (2069)
242	1639.4 (1638)	2064.4 (2063)	272	1729.4 (1728)	2073.4 (2072)
243	1642.4 (1641)	2067.4 (2066)	273	1732.4 (1731)	2076.4 (2075)
244	1645.4 (1644)	2070.4 (2069)	274	1735.4 (1734)	2079.4 (2078)
245	1648.4 (1647)	2073.4 (2072)	275	1738.4 (1737)	2082.4 (2081)
246	1651.4 (1650)	2076.4 (2075)	276	1741.4 (1740)	2085.4 (2084)
247	1654.4 (1653)	2079.4 (2078)	277	1744.4 (1743)	2088.4 (2087)
248	1657.4 (1656)	2082.4 (2081)	278	1747.4 (1746)	2091.4 (2090)
249	1660.4 (1659)	2085.4 (2084)	279	1750.4 (1749)	2094.4 (2093)
250	1663.4 (1662)	2088.4 (2087)	280	1753.4 (1752)	2097.4 (2096)
251	1666.4 (1665)	2091.4 (2090)	281	1756.4 (1755)	2100.4 (2099)
252	1669.4 (1668)	2094.4 (2093)	282	1759.4 (1758)	2103.4 (2102)
253	1672.4 (1671)	2097.4 (2096)	283	1762.4 (1761)	2106.4 (2105)
254	1675.4 (1674)	2100.4 (2099)	284	1765.4 (1764)	2109.4 (2108)
255	1678.4 (1677)	2103.4 (2102)	285	1768.4 (1767)	2112.4 (2111)
256	1681.4 (1680)	2106.4 (2105)	286	1771.4 (1770)	2115.4 (2114)
257	1684.4 (1683)	2109.4 (2108)	287	1774.4 (1773)	2118.4 (2117)
258	1687.4 (1686)	2112.4 (2111)	288	1777.4 (1776)	2121.4 (2120)
259	1690.4 (1689)	2115.4 (2114)	289	1780.4 (1779)	2124.4 (2123)
260	1693.4 (1692)	2118.4 (2117)	290	1783.4 (1782)	2127.4 (2126)
261	1696.4 (1695)	2121.4 (2120)	291	1786.4 (1785)	2130.4 (2129)
262	1699.4 (1698)	2124.4 (2123)	292	1789.4 (1788)	2133.4 (2132)
263	1702.4 (1701)	2127.4 (2126)	293	1792.4 (1791)	2136.4 (2135)
264	1705.4 (1704)	2130.4 (2129)	294	1795.4 (1794)	2139.4 (2138)
265	1708.4 (1707)	2133.4 (2132)	295	1798.4 (1797)	2061.4 (2060)
266	1711.4 (1710)	2136.4 (2135)			
267	1714.4 (1713)	2139.4 (2138)			
268	1717.4 (1716)	2061.4 (2060)			
269	1720.4 (1719)	2064.4 (2063)			
270	1723.4 (1722)	2067.4 (2066)			

Note — An administration may however assign to a coast station a receiving frequency in an unplanned band, in which case the procedure of Article 12 of the Radio Regulations applies.

TABLE 4

Channelling Arrangement of the Frequency Bands 415 - 435 kHz and 510 - 526.5 kHz for the Aeronautical Radionavigation Service (Radiobeacons) *

Channel No.	Frequency (kHz)	Channel No.	Frequency (kHz)
1 **	416	21 ****	511
2	417	22	513
3	418	23	514
4	419	24	515
5	420	25	516
6	421	26 ***	517
7	422	27 ***	519
8	423	28	520
9	424	29	521
10	425	30	522
11	426	31	523
12	427	32	524
13	428	33	525
14	429	34 ***	526
15	430		
16	431		
17	432		
18	433		
19 **	434		

* Exceptionally, for national purposes, administrations may use interleaved channels spaced at 0.5 kHz except on 517.5 kHz and 518.5 kHz, provided that such use does not cause interference to assignments on regular channels. Moreover, such assignments – except those included in the Plan as established by the Conference (see Annex 4, Section 2.6) – shall not prevent additional assignments from being made on regular channels or modifications to the Plan on regular channels.

** These channels are limited to emissions with a bandwidth of less than 2 kHz.

*** These channels are limited to emissions with a bandwidth of less than 1 kHz.

**** This channel is limited to emissions with a bandwidth of less than 2 kHz until the date decided by a future radio conference (see Article 14 of this Agreement).

ANNEX 4

TECHNICAL DATA

Technical Parameters Used in Establishing the Frequency Assignment Plans in Region 1 for the Maritime Mobile Service in the Bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and for the Aeronautical Radionavigation Service in the Bands 415 - 435 kHz and 510 - 526.5 kHz

1. *Maritime mobile service*

1.1 *Class of emission*

The Plan for the maritime mobile service was established for the following classes of emission in accordance with the channel arrangements as indicated in Annex 3.

1.1.1 *Morse telegraphy*, class of emission A1A, bands 415 - 435 kHz and 435 - 526.5 kHz.

1.1.2 *Narrow-band direct-printing telegraphy* (transmission rate 100 bauds, frequency shift 170 Hz), class of emission F1B and *digital selective calling* (transmission rate 100 bauds, frequency shift 170 Hz), class of emission F1B in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz.

1.1.3 *Single-sideband telephony* (upper sideband), class of emission J3E in the bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz.

1.2 *Propagation*

The Plans were established using ground-wave propagation values which were calculated according to CCIR Recommendation 368-4 for propagation over sea water, average salinity, 20 °C, $\sigma = 5$ S/m and $\varepsilon = 70$. 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 A1A*

Bands 415 - 435 kHz and 435 - 526.5 kHz:
36.5 dB(μV/m) north of and on parallel 30° North, and
56.5 dB(μV/m) south of parallel 30° North.

1.3.2 *Class of emission F1B*

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

Bands 415 - 435 kHz and 435 - 526.5 kHz:
31.5 dB(μV/m) north of and on parallel 30° North, and
51.5 dB(μV/m) south of parallel 30° North.

Bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz:
22.5 dB(μV/m) north of and on parallel 30° North, and
42.5 dB(μV/m) south of parallel 30° North.

1.3.3 *Class of emission J3E*

Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz:
37 dB(μV/m) north of and on parallel 30° North, and
57 dB(μV/m) south of parallel 30° North.

1.4 *Protection ratio*

The following values of protection ratio (see No. 164 of the Radio Regulations) were applied:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB		
	Wanted signal		
	A1A	F1B	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.

2. *Aeronautical radionavigation service*

2.1 *Classes of emission*

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

2.2 *Propagation*

The ground-wave mode of propagation only was used. Ground-wave field strength was calculated according to CCIR Recommendation 368-4 for propagation over wet ground, $\sigma = 10^{-2}$ S/m, $\varepsilon = 30$. For the bands 415 - 435 kHz and 510 - 526.5 kHz the curves for 400 kHz and 500 kHz, respectively, were used. They are given in Figure 4.2 and refer to an e.m.r.p. of 1 kW.

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

2.3 *Minimum field strength to be protected*

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

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

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

2.4 *Protection ratio*

The following values of protection ratio (see Nos. 164 and 2854 of the Radio Regulations) were applied:

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

2.5 *Multiple interference*

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

2.6 *Channel spacing*

Planning was based on a channel spacing of 1 kHz. However, in exceptional cases, and for national use only, interleaved channels at 0.5 kHz were used without adversely affecting assignments in the Plan on integer multiples of 1 kHz.

2.7 *Radiated power*

The effective monopole radiated power (e.m.r.p., see No. 157 of the Radio Regulations) was derived from the minimum field strength to be protected at the edge of the coverage area.

2.8 *Further considerations*

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

3. *Compatibility between the maritime mobile service and the aeronautical radionavigation service in the planned bands*

3.1 *Protection of stations of the maritime mobile service against interference from stations of the aeronautical radionavigation service*

3.1.1 The parameters given in sections 1.2, 1.3 and 1.5 to 1.8 were applied.

3.1.2 The protection ratios were as follows:

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB			
	Interfering radiobeacon with 400 Hz modulation		Interfering radiobeacon with 1020 Hz modulation	
	Wanted signal A1A	Wanted signal F1B	Wanted signal A1A	Wanted signal F1B
0	8	8	8	8
0.5	2	2	−13	−38
1.0	−19	−44	2	2
1.5	−32	−68	−19	−44
2.0	−48		−32	−68
2.5	−66		−48	
3.0			−66	

Note — These protection ratios were established on the basis of an A2A radiobeacon emission.

3.2 *Protection of stations of the aeronautical radionavigation service against interference from stations of the maritime mobile service*

The parameters given in sections 2.2 to 2.8 were applied. It was assumed that a maritime mobile signal (A1A or F1B) has the same interference potential as an aeronautical radiobeacon signal.

4. *Technical criteria applied for the reassignment of replacement frequencies for stations of the maritime mobile service in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz according to Resolution No. 38 of the World Administrative Radio Conference, Geneva, 1979*

The criteria given in section 1 and relevant to the bands above 1 606.5 kHz were applied.

5. *Protection of frequency assignments to stations of other services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated*

Due to constraints in the available computer program, the computer analysis of the Plan could not take account of assignments to primary and permitted services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated. In order to resolve possible incompatibilities between the Plan and these primary and permitted services, the Conference adopted Resolution No. 3.

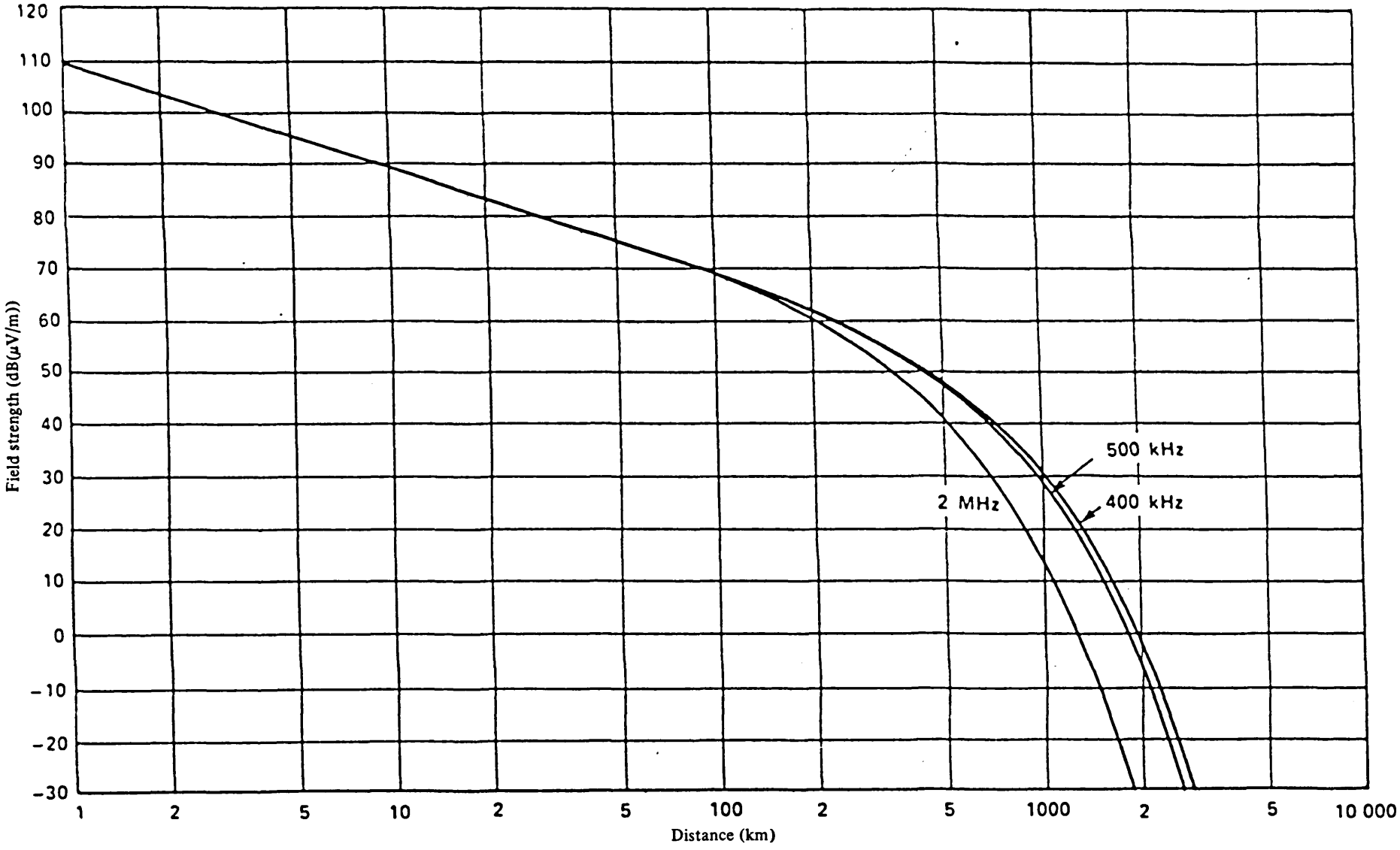

FIGURE 4.1

Ground-wave propagation – maritime mobile service
(see section 1.2)

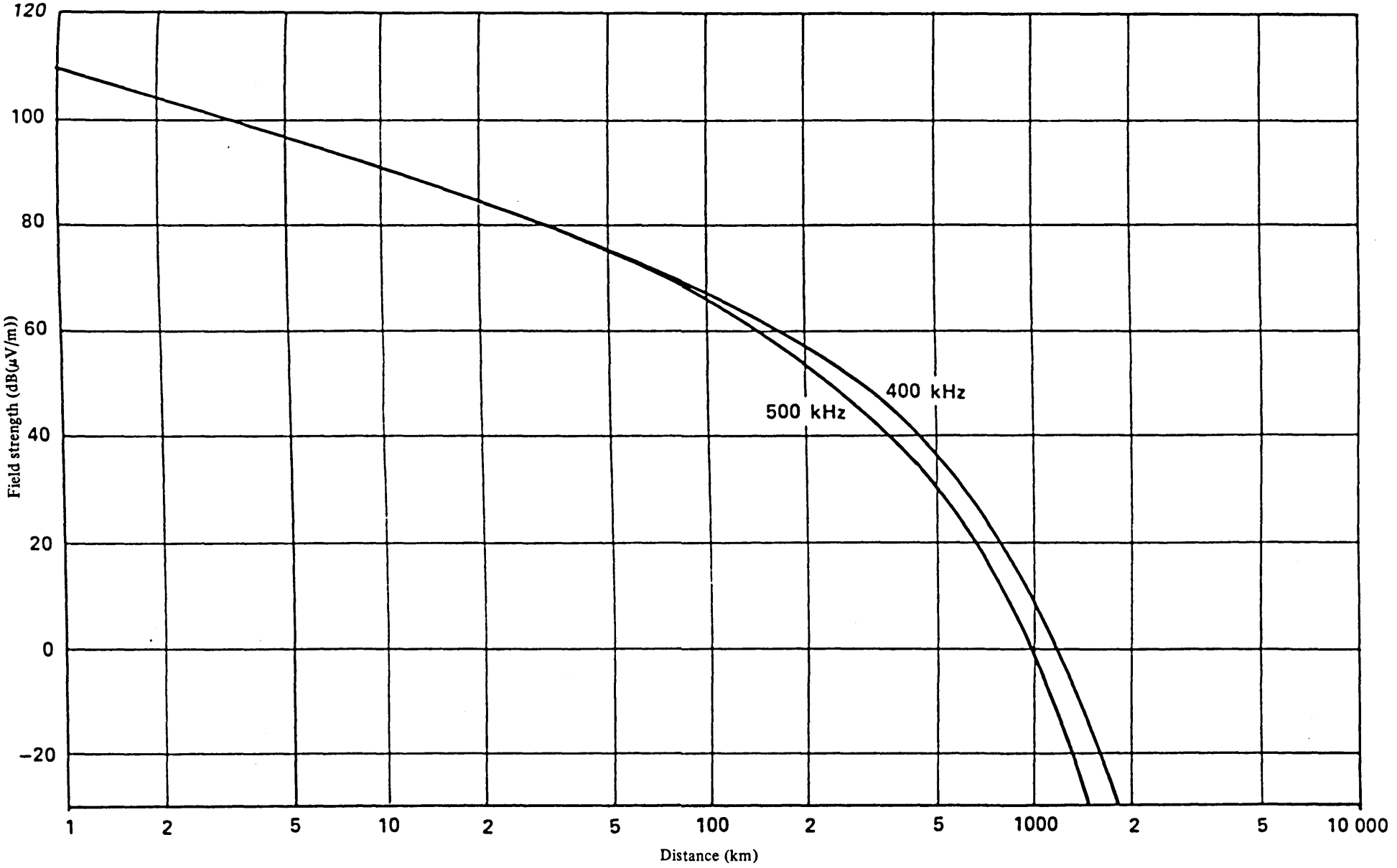

FIGURE 4.2

Ground-wave propagation – aeronautical radionavigation service
(see section 2.2)

ANNEX 5

Criteria to be Used to Identify Administrations with which an Agreement is Required in Accordance with Article 4 of the Agreement

The following criteria shall be used to identify administrations with which an agreement is required in accordance with Article 4 of the Agreement.

For the purpose of this annex the following definitions are applicable to assignments in conformity with the Agreement:

- the service area of a coast station is the area limited on the one hand by the coast and on the other hand by the coverage range over sea which is recorded in the Plan;
- the service area of a station of the aeronautical radionavigation service is the area around this station limited by the coverage range which is recorded in the Plan.

1. *Administrations having an assignment in conformity with the Agreement*

1.1 The service rendered by a station for which an assignment is in conformity with the Agreement may be affected by a modification to a Plan when the wanted to unwanted signal ratio at any point of the service area resulting from the proposed modification to a Plan is less than the protection ratio indicated in sections 1.4, 2.4 or 3.1.2 of Annex 4, as appropriate.

1.2 The wanted to unwanted signal ratio shall be calculated in the same channel and in any of the adjacent channels using the following criteria:

a) Stations of the maritime mobile service interfering with stations of the maritime mobile service:

Annex 4, sections 1.2 and 1.3 to 1.7.

b) Stations of the maritime mobile service interfering with stations of the aeronautical radionavigation service:

Annex 4, sections 1.2, 1.7 and 2.3 to 2.7.

The Board, in communicating the list of administrations with which coordination is necessary, shall also indicate in the Special Section, for information only, the wanted to unwanted signal ratio resulting from the use of propagation over land (i.e. the data given in section 2.2 of Annex 4).

c) Stations of the aeronautical radionavigation service interfering with stations of the aeronautical radionavigation service:

Annex 4, sections 2.2 to 2.7.

d) Stations of the aeronautical radionavigation service interfering with stations of the maritime mobile service:

Annex 4, sections 1.2, 1.3, 1.5, 1.6, 2.7 and 3.1.2.

2. *Administrations having an assignment recorded in the Master International Frequency Register for an unplanned primary or permitted service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz*

The service rendered by a station for which an assignment is recorded in the Master International Frequency Register may be affected by a modification to the Plan when the application of the relevant Technical Standards of the IFRB using ground-wave propagation results in an unfavourable finding.

ANNEX 6

Criteria to be Used by the IFRB in the Examination Under Article 6 of this Agreement of Frequency Assignments to Stations of Primary and Permitted Services in the Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz

When examining frequency assignments to stations of primary and permitted services in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz under Article 6 of this Agreement, the IFRB shall use its relevant Technical Standards on the basis of ground-wave propagation.

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FINAL PROTOCOL[1]

At the time of signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the undersigned delegates take note of the following statements made by signatory delegations.

No. 1

(*Original:* French)

For Portugal:

The Delegation of Portugal to the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985) reserves the right of its Government to take such measures as it deems necessary to safeguard its interests should Members fail in any way to abide by the provisions of the Conference or if reservations made by other countries jeopardize the operation of its radiocommunication services.

No. 2

(*Original:* French)

For Tunisia:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the Tunisian Delegation regrets that half of its requirements have not been taken into account because the planning process adopted in effect favours certain countries over the others.

The Delegation of Tunisia reserves its Government's right to take whatever action may be necessary to protect its interests should the future application of the new Plans jeopardize the operation of its radiocommunication services.

No. 3

(*Original:* English)

For the Republic of Kenya:

The Delegation of Kenya to the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985) reserves the right of the Government of the Republic of Kenya to take any action it may deem necessary to safeguard its interests should any Member country fail in any way to comply with any provision, Resolution, Recommendation or contents of the Annexes contained in the Final Acts of this Conference or if reservations made by other countries jeopardize the implementation or operations of the provisions contained therein.

No. 4

(*Original:* English)

For the People's Democratic Republic of Algeria, the Kingdom of Saudi Arabia, the State of Bahrain, the Republic of Iraq, the State of Kuwait, the Socialist People's Libyan Arab Jamahiriya, the Kingdom of Morocco, the Sultanate of Oman, the State of Qatar and Tunisia:

The Delegations of the above-mentioned countries to the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985) declare that the signature and possible approval by their respective Governments or competent authorities of the Final Acts of this Conference are not valid with respect to the Zionist entity appearing in Annex 1 to the Convention under the name of the so-called Israel and in no way whatsoever imply its recognition.

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[1] *Note by the General Secretariat:* The texts of the Final Protocol are shown in the chronological order of their deposit. In the table of contents these texts are grouped in the alphabetical order of country names.

No. 5

(*Original:* French)

For the People's Republic of Angola:

In signing the Final Acts of this Conference, the Delegation of the People's Republic of Angola wishes to state that it reserves the right of its Government to take any action it may deem necessary to safeguard its interests, should any Members fail in any way to comply with the provisions of the Final Acts or should reservations by other delegations jeopardize the operation of its telecommunication services.

No. 6

(*Original:* French)

For the People's Democratic Republic of Algeria:

The Algerian Delegation declares that the notices concerning the stations of the maritime mobile and aeronautical radionavigation services in the Western Sahara submitted by the Kingdom of Morocco are null and void under international law and all relevant Resolutions of the United Nations and the Organization of African Unity. Therefore, they may in no event be taken into consideration so long as the Sahrawi people has not expressed itself freely and in sovereignty on its future and has not exercised its right to self-determination and independence.

No. 7

(*Original:* French)

For the Republic of the Ivory Coast:

In signing the Final Acts of this Conference, the Delegation of the Republic of the Ivory Coast declares that it reserves for its Government the right to approve the Final Acts and to take such action as it may deem necessary to protect its maritime radiocommunication and aeronautical radionavigation services, should any administration party to the Agreement refuse or fail to comply with it.

No. 8

(*Original:* English)

For the Republic of Malta:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the Delegation of the Republic of Malta reserves its Government's right to take whatever action it may deem necessary to safeguard its interests should any Member fail in any way to comply with the provisions laid down in the Final Acts or should the reservations made by other countries jeopardize the radiocommunication services of the Republic of Malta.

No. 9

(*Original:* English)

For the State of Israel:

In addition to the frequencies included in the Plans, Israel operates a number of frequencies for the maritime mobile service and the aeronautical radionavigation service (radiobeacons) which have been duly registered with the IFRB but which, for technical reasons, were not included in the Plans. Israel reserves the right to continue to operate these frequencies in accordance with the regulations in force and the provisions of this Agreement.

No. 10

(*Original:* French)

For the People's Republic of Poland:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the Delegation of the People's Republic of Poland reserves for its Government the right to take any action it may deem necessary to protect and to ensure the operation of its existing stations in the maritime mobile and aeronautical radionavigation services.

No. 11

(*Original:* English)

For Greece:

The Delegation of the Hellenic Republic (Greece) to the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985) declares that its Administration views with concern the outcome of the Conference because the frequency Plans established do not provide adequate protection for coast stations with heavy Morse radiotelegraphy traffic.

Greece therefore urges all Contracting Members and the IFRB to do everything possible to ensure continuation of Morse radiotelegraphy service in the planned band under satisfactory conditions.

No. 12

(*Original:* French)

For the Republic of Guinea:

The Delegation of the Republic of Guinea to the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985) reserves for its Government the right to take any action it may deem necessary to safeguard its interests, should any Member fail to comply with the provisions of these Final Acts and their Annexes.

No. 13

(*Original:* French)

For the Kingdom of Morocco:

The towns of Sebta (Ceuta) and Melillia (Melilla), together with their areas, are an integral part of the territory of the Kingdom of Morocco.

Consequently, the Moroccan Administration reserves all of its country's rights with regard to the frequency assignments for the maritime and aeronautical mobile services included in the Plan on behalf of Spain in the above-mentioned territories.

The signature and possible ratification of the Final Acts of this Conference in no way imply recognition of Spanish sovereignty over these territories.

No. 14

(*Original:* French)

For Italy:

In signing the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985), the Delegation of Italy reserves for its Government the right to take any measures it may deem necessary to safeguard its interests should other countries fail to observe the provisions of the Agreement, its Annexes and Protocol or formulate reservations which jeopardize Italy's radio services.

No. 15

(*Original:* French)

For France:

In signing the Final Acts of this Conference, the Delegation of France declares that only part of the requirements it submitted have been met and that implementation of the decisions adopted by the Conference in this regard are likely to raise many difficulties.

The French delegation therefore wishes to reserve its Government's right to take all appropriate action to ensure the protection and proper operation of its maritime mobile service after the date of entry into force of the Plan.

No. 16

(*Original:* English)

For the Federal Republic of Germany, Denmark, Finland, Norway, the Kingdom of the Netherlands, the United Kingdom of Great Britain and Northern Ireland, and Sweden:

Recognizing the vital contributions made by aeronautical radiobeacons and maritime communications to safety, the Delegations of the above-mentioned countries view with concern the decision of the Conference to defer the entry into force of the Agreement until 1992. There will therefore be a period of seven years before the new Frequency Plans for aeronautical radiobeacons and maritime communications can be implemented.

The Delegations of the above-mentioned countries therefore urge all administrations in Region 1 and the IFRB to do everything possible to preserve the integrity of the new Plans so that when they are brought into use, aeronautical radiobeacons and maritime communications can continue to make their vital contributions to safety.

No. 17

(*Original:* English)

For the State of Israel:

The declarations made by certain delegations in No. 4 of the Final Protocol, being in flagrant contradiction with the principles and purposes of the International Telecommunication Union, and therefore void of any legal validity, the Government of Israel wishes to put on record that it rejects these declarations outright and will proceed on the assumption that they can have no validity regarding the rights and duties of any Member State of the International Telecommunication Union. In any case, the Government of Israel will avail itself of its right to safeguard its interests should the Governments of these delegations in any way violate any of the provisions of the Final Acts of the Regional Administrative Conference for the Planning of the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1) (Geneva, 1985).

The Delegation of Israel further notes that declaration No. 4 does not refer to the State of Israel by its full and correct name. As such it is totally inadmissible and must be repudiated as a violation of recognized rules of international behaviour.

No. 18

(*Original:* Spanish)

For Spain:

The Spanish Delegation to this Conference rejects the reservation bearing the No. 13 in the Final Protocol and entered by the Delegation of the Kingdom of Morocco with regard to the entry of frequencies for the stations of Ceuta and Melilla in the Plan.

Ceuta and Melilla are Spanish cities and as such constitute part of the national territory. Spanish sovereignty over them therefore cannot be questioned.

No. 19

(*Original:* French)

For the Kingdom of Morocco:

Declaration No. 6 is an illustration of the expansionist and anti-Moroccan policy of the Government of Algiers. That Government has not ceased, by all the means within its power, to oppose the return of the former Western Sahara to the country of which it formed part before the Spanish colonization – the Kingdom of Morocco.

The Moroccan Delegation therefore requests the Conference to consider the Algerian declaration as being null and void of substance.

(The signatures follow)

(The signatures following the Final Protocol are those shown on pages 9 to 11)

RESOLUTION No. 1

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

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

considering

a) that, in accordance with its agenda, it has adopted an Agreement and associated Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

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

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

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

e) that, in accordance with No. 471 of the Radio Regulations and Resolution No. 206 (Mob-83) of the World Administrative Radio Conference for Mobile Services, Geneva, 1983, the next competent world administrative radio conference should decide on the date of entry into force of the definitive guardband from 495 kHz to 505 kHz and that No. 3018 of the Radio Regulations is to be observed,

resolves

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

2. that during the period concerned, subject to the application of *resolves 4* below, administrations and the IFRB shall apply to frequency assignments of the aeronautical radionavigation and maritime mobile services the procedures of Article 5 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands;

3. that during the period concerned, administrations and the IFRB shall apply to frequency assignments of the fixed and land mobile services the procedures of Article 6 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands;

4. that the transitional procedure contained in the Annex to this Resolution shall be applicable during the period in question;

5. that the provisions of this Resolution do not apply to the bands 490 - 495 kHz and 505 - 510 kHz unless decided otherwise by a competent administrative radio conference.

ANNEX TO RESOLUTION No. 1

Transitional Procedure Applicable to Frequency Assignments Notified Under Article 5 of the Agreement Before its Entry into Force

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

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

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

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

RESOLUTION No. 2

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

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

considering

a) that, in accordance with this Agreement, the Contracting Members have adopted Plans for their maritime mobile service and aeronautical radionavigation service stations in the frequency bands 415 - 435 kHz, 435 - 495 kHz, 505 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

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

c) that the administrations of Contracting Members and the IFRB should have an appropriate procedure for implementing the Plans agreed at the present Conference with the least possible difficulty,

resolves

1. that, within 90 days from the date on which this Conference ends, the IFRB shall send to each administration a list of the assignments to stations of the planned services entered on its behalf in the Master Register in the planned bands as well as a list of the assignments entered on its behalf in the Plans adopted at this Conference;

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

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

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

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

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

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

invites the IFRB

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

RESOLUTION No. 3

Compatibility Between Assignments Appearing in the Plan for the Maritime Mobile Service in the Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and Assignments in the Fixed and Land Mobile Services Recorded in the Master Register

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

considering

a) that Article 8 of the Radio Regulations allocated in Region 1 the frequency bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz to the maritime mobile service on a primary basis and to the fixed and land mobile services on a permitted basis (primary in countries listed in No. 483 of the Radio Regulations);

b) that the Conference established a Plan for the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

c) that the Conference was unable to evaluate the incompatibilities between frequency assignments to the maritime mobile service entered in the Plan and those of the primary services recorded in the Master Register;

d) that the Conference was unable to assign alternative frequencies to the assignments to stations of permitted services after having selected the frequencies for the maritime mobile service as indicated in the provisions of No. 419 of the Radio Regulations;

e) that in accordance with No. 419 of the Radio Regulations, the primary and permitted services have equal rights except during the period of preparation of a Plan for the primary service;

f) that the evaluation of compatibility between assignments to the maritime mobile service in the Plan and the other services can be made only after the Conference;

g) that this evaluation may indicate the probability of harmful interference between assignments appearing in the Plan and other assignments presently recorded in the Master Register for the fixed and land mobile services;

h) that in such cases alternative frequencies should be found to the assignments causing or subject to interference;

i) that the planned bands are already congested and that alternative frequencies will have to be found generally in other bands;

j) that, in general, it is easier for the stations of the fixed and land mobile services to make modifications to their characteristics,

resolves

1. that, within 90 days of the end of the present Conference, the IFRB shall send to each administration the list of assignments to its stations of the fixed and land mobile services recorded in the Master Register in the bands concerned, requesting them to review these assignments with a view to cancelling those assignments which are no longer in use;

2. that administrations shall, within a period of 90 days following the receipt of the list referred to in paragraph 1 above, return the copy of the list indicating those assignments to be deleted from the Master Register as well as any modification to other assignments, which may assist in resolving any apparent incompatibility with the Plan;

3. that, having received information requested under Resolution No. 2 indicating the relation between assignments in the maritime mobile service recorded in the Master Register and those appearing in the Plan as well as the information resulting from the application of paragraphs 1 and 2 above, the IFRB shall carry out compatibility analyses between the assignments appearing in the Plan and those of the fixed and land mobile services which are recorded in the Master Register in the same band, using the IFRB Technical Standards on the basis of ground-wave propagation;

4. that the IFRB shall send to each administration concerned the list of incompatibilities that may exist between the assignments in the Plan and the assignments in the fixed and land mobile services;

5. that, when an administration finds that the level of interference caused to its fixed or land mobile station from an assignment to a station of the maritime mobile service appearing in the Plan is acceptable to it, it shall so inform the IFRB and the corresponding asignment is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

6. that, when an administration finds that the level of interference caused to its maritime mobile station for which an assignment appears in the Plan is acceptable to it, it shall so inform the IFRB and the fixed or land mobile assignment at the origin of interference is maintained in the Master Register with an appropriate remark indicating its compatibility with the Plan;

7. that, when an assignment in the fixed or land mobile service with a date in Column 2b of the Master Register is identified as capable of causing harmful interference to an assignment appearing in the Plan, the administration responsible for the fixed or land mobile assignment shall take appropriate measures to change the frequency or modify the characteristics in order to eliminate the probability of harmful interference;

8. that, when there exists an incompatibility between an assignment in the Plan and an assignment of the fixed or land mobile service with a date in Column 2a of the Master Register, administrations concerned should make every effort to eliminate the incompatibility by modifying the characteristics of the assignments concerned and, if this is not possible, by selecting an alternative frequency either in the planned bands or in the case of fixed and land mobile services preferably in other bands;

9. that 120 days before the date of entry into force of the Agreement, the IFRB shall request those administrations concerned with an unresolved incompatibility to find a solution to the problem. If 90 days before the entry into force of the Agreement, the Board is not informed of the solution of such incompatibility, it shall select an alternative frequency for the assignment having the more recent date in Column 2a of the Master Register and inform the administrations concerned;

10. that an administration, for which an acceptable alternative frequency was selected in accordance with paragraph 9 above, shall modify the characteristics of its assignment in order to operate at this new frequency as soon as possible and, in any case, before the bringing into use of the assignment in the Plan;

11. that administrations may request the assistance of the Board at any stage of these proceedings;

12. that when an alternative frequency is selected in accordance with paragraphs 8 or 9 above and is compatible with the Plan and receives a favourable finding with respect to assignments recorded in the Master Register, the assignment will keep its original date in Column 2a,

urges administrations

1. having assignments in the fixed or land mobile service which are incompatible with an assignment in the Plan to take all necessary measures to eliminate the incompatibility bearing in mind that, in general, the fixed and land mobile services have more flexibility to modify their characteristics, including the frequency;

2. having assignments in the Plan which are incompatible with assignments in the fixed or land mobile service with a date in Column 2a of the Master Register to modify the characteristics of their assignments appearing in the Plan in order to eliminate incompatibility;

3. to cooperate to the maximum extent possible with a view to achieving the objectives of this Resolution,

requests the IFRB

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

RESOLUTION No. 4

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

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

considering

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

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

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

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

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

resolves

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

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

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

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

RESOLUTION No. 5

Use of Channels for the Digital Selective Calling System in the Bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz

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

considering

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

b) that the CCIR has adopted the necessary Recommendations;

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

d) that the administrations at this Conference agreed to an Allotment Plan (annexed to this Resolution) for the national channels,

invites

administrations which are providing an international public correspondence service to indicate for publication in the List of Coast Stations the periods of service during which an automatic watch will be maintained on the international and national digital selective calling channels,

invites further

administrations which wish to enter into a group in the Allotment Plan, or administrations included in the Plan wishing to make a modification in the Plan, to coordinate as far as possible their proposed changes with other interested and affected administrations in the group concerned. An administration which has decided to enter into a group or change group in the Allotment Plan shall inform the Secretary-General of its decision and it shall be published in the Annex to the List of Coast Stations. Administrations shall also notify to the IFRB, in accordance with Article 5 of the Agreement, the use of the frequencies contained in the Annexes to this Resolution which are not covered by the provisions of No. 1220 of the Radio Regulations,

instructs the Secretary-General

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

2. in the light of the foregoing, to update the Allotment Plan annexed to the List of Coast Stations;

3. in advance of the publication of any revision of the Allotment Plan in the List of Coast Stations, to notify any variation in the Plan through the Operational Bulletin.

ANNEX 1 TO RESOLUTION No. 5

Allotment Plan for National Channels in the Digital Selective Calling System in the Band 435 - 526.5 kHz by Countries and Areas

Group 1, Channel No. 80
coast station transmitting frequency: 456.0 kHz
ship station transmitting frequency: 459.0 kHz

AZORES	MAURITIUS
BELGIUM	MAURITANIA
BENIN	MONACO
CAPE VERDE	NIGERIA
COMORES	NORWAY
UNITED ARAB EMIRATES	OMAN
FINLAND	PORTUGAL
FRANCE	QATAR
GAMBIA	ST. HELENA
GIBRALTAR	SENEGAL
GREECE	SUDAN
ICELAND	SWEDEN (Baltic)
JORDAN	SYRIA
KUWAIT	TUNISIA
LEBANON	YEMEN ARAB REPUBLIC
MADAGASCAR	YEMEN (P.D.R. OF)
MADEIRA	YUGOSLAVIA
MARION ISLAND	ZAIRE
MOROCCO (Mediterranean)	

Group 2, Channel No. 81 coast station transmitting frequency: 456.5 kHz ship station transmitting frequency: 459.5 kHz	
GERMANY (FEDERAL REPUBLIC OF) (North Sea)	ISRAEL
BAHRAIN	ITALY
BYELORUSSIA	MALTA
BULGARIA	MONGOLIA
CYPRUS	NETHERLANDS
CONGO	REUNION
DENMARK	SAO TOME AND PRINCIPE
DJIBOUTI	SEYCHELLES
SPAIN (Canary Islands included)	SIERRA LEONE
ETHIOPIA	SOMALIA
GABON	SOUTH AFRICA
GUINEA	SWEDEN (North Sea)
GUINEA-BISSAU	TOGO
EQUATORIAL GUINEA	UKRAINE
	USSR

Group 3, Channel No. 82 coast station transmitting frequency: 457.0 kHz ship station transmitting frequency: 460.0 kHz	
ALBANIA	LIBERIA
ALGERIA	LIBYA
GERMANY (FEDERAL REPUBLIC OF) (Baltic)	MOROCCO (Atlantic)
ANGOLA	MAYOTTE
SAUDI ARABIA	MOZAMBIQUE
CAMEROON	NAMIBIA
IVORY COAST	POLAND
CROZET (ARCHIPELAGO)	GERMAN DEMOCRATIC REPUBLIC
EGYPT	ROMANIA
GHANA	UNITED KINGDOM
IRAQ	TANZANIA
IRELAND	CHAD
KENYA	TURKEY
	USSR

ANNEX 2 TO RESOLUTION No. 5

Allotment Plan for National Channels in the Digital Selective Calling System in the Band 1 606.5 - 2 160 kHz by Countries and Areas

Group 1, Channel No. 229 coast station transmitting frequency: 1621.0 kHz ship station transmitting frequency: 2156.0 kHz	
BULGARIA	KUWAIT
CAPE VERDE	MOROCCO
VATICAN	NORWAY (North of 65° N)
IVORY COAST	UNITED KINGDOM (Irish Sea)
GABON	TANZANIA
ICELAND	UKRAINE
ITALY (West)	YEMEN ARAB REPUBLIC
JORDAN	

Group 2, Channel No. 230 coast station transmitting frequency: 1621.5 kHz ship station transmitting frequency: 2156.5 kHz	
CAMEROON	LIBERIA
CANARIES	MAURITIUS
COMORES	NORWAY (South of 65° N)
ETHIOPIA	ROMANIA
ISRAEL	UNITED KINGDOM (Channel)
ITALY (East)	SEYCHELLES

Group 3, Channel No. 231 coast station transmitting frequency: 1622.0 kHz ship station transmitting frequency: 2157.0 kHz	
ALGERIA	KENYA
BYELORUSSIA	NORWAY (South of 65° N)
UNITED ARAB EMIRATES	REUNION
FRANCE (Channel)	SYRIA
GHANA	USSR
GREECE	

Group 4, Channel No. 232 coast station transmitting frequency: 1622.5 kHz ship station transmitting frequency: 2157.5 kHz	
GERMANY (FEDERAL REPUBLIC OF)	IRELAND
SAUDI ARABIA	LIBYA
FINLAND	MAURITANIA
FRANCE (Mediterranean)	MOZAMBIQUE
EQUATORIAL GUINEA	SIERRA LEONE
	TURKEY

Group 5, Channel No. 233 coast station transmitting frequency: 1623.0 kHz ship station transmitting frequency: 2158.0 kHz	
ASCENSION	NAMIBIA
DJIBOUTI	OMAN
GAMBIA	UNITED KINGDOM (North Sea)
GIBRALTAR	ST. HELENA
MALTA	SAO TOME AND PRINCIPE
MAYOTTE	SWEDEN

Group 6, Channel No. 234 coast station transmitting frequency: 1623.5 kHz ship station transmitting frequency: 2158.5 kHz	
ALBANIA	MONACO
ANGOLA	NIGERIA
BAHRAIN	NETHERLANDS
EGYPT	POLAND
SPAIN (Atlantic)	YEMEN (P.D.R. OF)
GUINEA	

Group 7, Channel No. 235 coast station transmitting frequency: 1624.0 kHz ship station transmitting frequency: 2159.0 kHz	
BELGIUM	GERMAN DEMOCRATIC REPUBLIC
BENIN	SENEGAL
CYPRUS	SUDAN
SPAIN (Mediterranean)	TRISTAN DA CUNHA
GREECE	USSR
IRAQ	ZAIRE
MADAGASCAR	

Group 8, Channel No. 236 coast station transmitting frequency: 1624.5 kHz ship station transmitting frequency: 2159.5 kHz	
AZORES	QATAR
CONGO	SOMALIA
DENMARK	SOUTH AFRICA
FRANCE (Atlantic)	TOGO
GUINEA-BISSAU	TUNISIA
LEBANON	USSR
MADEIRA	YUGOSLAVIA
PORTUGAL	

RECOMMENDATION No. 1

Replacement of the World-Wide Maritime Mobile Working Frequency 425 kHz for Ship Stations

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

considering

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

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

further considering

c) that this Conference established a frequency assignment Plan for aeronautical radiobeacon stations in the band 415 - 435 kHz in Region 1;

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

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

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

g) that this Conference decided that the frequency 458 kHz would be a suitable replacement for the frequency 425 kHz in order to avoid problems with the implementation of the Plan for the aeronautical radiobeacon stations;

h) that harmful interference in the reception of the aeronautical radiobeacon stations may have serious implications for the safety of life;

i) that the revision of No. 4237 of the Radio Regulations was not on the agenda of this Conference,

recommends

that the Conference for the Mobile Services scheduled for 1987 should be authorized to review and revise No. 4237 of the Radio Regulations with a view to replacing the frequency 425 kHz by the frequency 458 kHz as a world- wide ship station working frequency in all the Regions, from the date of entry into force of the Plan for aeronautical radiobeacons in the band 415 - 435 kHz, i.e. 1st April, 1992,

invites the Administrative Council

to ensure that the Conference for the Mobile Services scheduled for 1987 will be competent to review and revise No. 4237 of the Radio Regulations,

instructs the Secretary-General

to bring this Recommendation to the attention of all administrations.

RECOMMENDATION No. 2

Modification of the Provisions of the Radio Regulations Concerning the Use of Frequencies 2 047.4 kHz, 2 050.4 kHz, 2 054.4 kHz and 2 057.4 kHz by the Maritime Mobile Service

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

considering

a) that, under the terms of Nos. 4358 to 4366 of the Radio Regulations, in Region 1 stations on ships making international voyages should be able to use, if required by their service for international communications:

- the following ship-to-shore working frequencies:
  carrier frequency 2 046 kHz (assigned frequency 2 047.4 kHz) and carrier frequency 2 049 kHz (assigned frequency 2 050.4 kHz) for class R3E and J3E emissions;
- the following intership frequencies:
  carrier frequency 2 053 kHz (assigned frequency 2 054.4 kHz) and carrier frequency 2 056 kHz (assigned frequency 2 057.4 kHz) for class R3E and J3E emissions;

that, under No. 4365 of the Radio Regulations, the two intership frequencies may be used as additional ship-to-shore frequencies;

b) that the four frequencies above are in the band 2 045 - 2 141.5 kHz mentioned in paragraph *c)* of Appendix 2 to Resolution No. 704 (Mob-83) for ship radiotelephone stations but are not in conformity with the table of recommended assignable frequencies shown in the aforementioned appendix to Resolution No. 704;

c) that, consequently, only 27 frequencies of the table referred to in considering *b)* above could be used by ship stations for radiotelephony;

d) that it would be desirable to have additional ship frequencies available in that band to alleviate sharing problems;

e) that additional ship frequencies could be found by reducing the present number of frequencies for international communication by ships making international voyages;

f) that by aligning the frequencies mentioned in considering *a)* with those of the table mentioned in considering *b)* one additional ship frequency would become available;

g) that this Conference is not empowered to revise Nos. 4358 to 4366 of the Radio Regulations,

recommends

1. that the Conference for the Mobile Services planned for 1987 should revise Nos. 4358 to 4366 of the Radio Regulations:
   - in order to align the frequencies mentioned in these provisions with those of the table shown in Appendix 2 of Resolution No. 704;
   - in order to study the possibility of reducing the number of ship frequencies for international communication;

2. that the same conference should take appropriate action with regard to the use of the additional ship frequencies following the revision of Nos. 4358 to 4366 of the Radio Regulations,

invites the Administrative Council

to take appropriate steps to include the revision of Nos. 4358 to 4366 of the Radio Regulations in the agenda of the World Administrative Conference for the Mobile Services in 1987,

instructs the Secretary-General

1. to bring this Recommendation to the attention of all administrations;
2. to communicate this Recommendation to the International Maritime Organization (IMO).

RECOMMENDATION No. 3

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands between 415 and 526.5 kHz in Region 1

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

considering

a) that this Conference has established an Agreement and associated Frequency Plan for the frequency bands between 415 and 526.5 kHz for the maritime mobile service;

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

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

d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands between 415 and 526.5 kHz,

noting

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

recommends

that the channelling arrangement appearing in the Annex to this Recommendation concerning the frequency bands between 415 and 526.5 kHz is included in the Radio Regulations as an appendix,

invites the Administrative Council

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

ANNEX TO RECOMMENDATION No. 3

Channelling Arrangement for the Maritime Mobile Service in the Planned Frequency Bands between 415 and 526.5 kHz in Region 1

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz) [c]	Ship station (kHz)	Channel No.	Coast station (kHz) [c]	Ship station (kHz)
1	415.5		40	435.5	475.5	80	456.0 [a]	459.0 [a]
2	416.0		41	436.0	476.0	81	456.5 [a]	459.5 [a]
3	416.5		42	436.5	476.5	82	457.0 [a]	460.0 [a]
4	417.0		43	437.0	477.0	83		457.5 [b]
5	417.5		44	437.5	477.5	84 [e]	490.5	506.0
6	418.0		45	438.0	478.0	85 [e]	491.0	506.5
7	418.5		46	438.5	478.5	86 [e]	491.5	507.0
8	419.0		47	439.0	479.0	87 [e]	492.0	507.5
9	419.5		48	439.5	479.5	88 [e]	492.5	508.0
10	420.0		49	440.0	461.0	89 [e]	493.0	508.5
11	420.5		50	440.5	480.5	90 [e]	493.5	509.0
12	421.0		51	441.0	481.0	91 [e]	494.0	509.5
13	421.5		52	441.5	481.5	92 [e]	494.5	510.0
14	422.0		53	442.0	482.0	93	510.5	461.5
15	422.5		54	442.5	482.5	94	511.0	462.0
16	423.0	454.0 [c]	55	443.0	483.0	95	511.5	462.5
17	423.5		56	443.5	483.5	96	512.5	463.0
18	424.0	458.0 [c]	57	444.0	484.0	97	513.0	463.5
19	424.5		58	444.5	484.5	98	513.5	464.0
20	425.0 [d]	468.0 [c]	59	445.0	485.0	99	514.0	464.5
21	425.5	480.0 [c]	60	445.5	485.5	100	514.5	465.0
22	426.0		61	446.0	486.0	101	515.0	465.5
23	426.5	505.5 [c], [e]	62	446.5	486.5	102	515.5	466.0
24	427.0		63	447.0	487.0	103	516.0	466.5
25	427.5		64	447.5	487.5	104	516.5	467.0
26	428.0		65	448.0	488.0	105	517.0	467.5
27	428.5		66	448.5	488.5	106	519.0	460.5
28	429.0		67	449.0	489.0	107	519.5	468.5
29	429.5		68	449.5	489.5	108	520.0	469.0
30	430.0		69	450.0	450.0	109	520.5	469.5
31	430.5		70	450.5	450.5	110	521.0	470.0
32	431.0		71	451.0	451.0	111	521.5	470.5
33	431.5		72	451.5	451.5	112	522.0	471.0
34	432.0		73	452.0	452.0	113	522.5	471.5
35	432.5		74	452.5	452.5	114	523.0	472.0
36	433.0		75	453.0	453.0	115	523.5	472.5
37	433.5		76		453.5 [b]	116	524.0	473.0
38	434.0		77		454.5 [b]	117	524.5	473.5
39	434.5		78		455.0 [b]	118	525.0	474.0
			79	455.5 [a]	458.5 [a]	119	525.5	474.5
						120	526.0	475.0

[a] For DSC use: channel No. 79. For international use, channels Nos. 80-82. For national use, see also Resolution No. 5.

[b] For inter-ship use.

[c] A coast station has the right to transmit on its own assigned working frequency (paired) when it communicates with a ship station transmitting on one of the frequencies for Morse radiotelegraphy (454, 458, 468, 480 and 505.5 kHz) (see also No. 4237 of the Radio Regulations).

[d] See Recommendation No. 1.

[e] This frequency shall not be used until the data to be decided by the Conference mentioned in Resolution No. 206 (Mob-83).

RECOMMENDATION No. 4

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

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

considering

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

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

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

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

noting

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

recommends

that the channelling arrangement appearing in the Annex to this Recommendation concerning the frequency bands 1 606.5 - 1 625 kHz and 2 141.5 - 2 160 kHz is included in the Radio Regulations as an appendix,

invites the Administrative Council

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

ANNEX TO RECOMMENDATION No. 4

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

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

NBDP = Narrow-band direct-printing
DSC = Digital selective calling

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

* See Resolution No. 5.

RECOMMENDATION No. 5

Channelling Arrangement for Single Sideband Radiotelephony in the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz in Region 1

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

considering

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

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

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

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

noting

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

recommends

that the channelling arrangement appearing in the annex to this Recommendation concerning the frequency bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz is included in the Radio Regulations as an appendix,

invites the Administrative Council

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

ANNEX TO RECOMMENDATION No. 5

Channelling Arrangement for Single Sideband Radiotelephony in the Maritime Mobile Service in the Frequency Bands 1 635 - 1 800 kHz and 2 045 - 2 141.5 kHz in Region 1

Channel No.	Coast station assigned frequency (carrier frequency) (kHz)	Ship station assigned frequency (carrier frequency) (kHz)	Channel No.	Coast station assigned frequency (carrier frequency) (kHz)	Ship station assigned frequency (carrier frequency) (kHz)
241	1636.4 (1635)	2061.4 (2060)	271	1726.4 (1725)	2070.4 (2069)
242	1639.4 (1638)	2064.4 (2063)	272	1729.4 (1728)	2073.4 (2072)
243	1642.4 (1641)	2067.4 (2066)	273	1732.4 (1731)	2076.4 (2075)
244	1645.4 (1644)	2070.4 (2069)	274	1735.4 (1734)	2079.4 (2078)
245	1648.4 (1647)	2073.4 (2072)	275	1738.4 (1737)	2082.4 (2081)
246	1651.4 (1650)	2076.4 (2075)	276	1741.4 (1740)	2085.4 (2084)
247	1654.4 (1653)	2079.4 (2078)	277	1744.4 (1743)	2088.4 (2087)
248	1657.4 (1656)	2082.4 (2081)	278	1747.4 (1746)	2091.4 (2090)
249	1660.4 (1659)	2085.4 (2084)	279	1750.4 (1749)	2094.4 (2093)
250	1663.4 (1662)	2088.4 (2087)	280	1753.4 (1752)	2097.4 (2096)
251	1666.4 (1665)	2091.4 (2090)	281	1756.4 (1755)	2100.4 (2099)
252	1669.4 (1668)	2094.4 (2093)	282	1759.4 (1758)	2103.4 (2102)
253	1672.4 (1671)	2097.4 (2096)	283	1762.4 (1761)	2106.4 (2105)
254	1675.4 (1674)	2100.4 (2099)	284	1765.4 (1764)	2109.4 (2108)
255	1678.4 (1677)	2103.4 (2102)	285	1768.4 (1767)	2112.4 (2111)
256	1681.4 (1680)	2106.4 (2105)	286	1771.4 (1770)	2115.4 (2114)
257	1684.4 (1683)	2109.4 (2108)	287	1774.4 (1773)	2118.4 (2117)
258	1687.4 (1686)	2112.4 (2111)	288	1777.4 (1776)	2121.4 (2120)
259	1690.4 (1689)	2115.4 (2114)	289	1780.4 (1779)	2124.4 (2123)
260	1693.4 (1692)	2118.4 (2117)	290	1783.4 (1782)	2127.4 (2126)
261	1696.4 (1695)	2121.4 (2120)	291	1786.4 (1785)	2130.4 (2129)
262	1699.4 (1698)	2124.4 (2123)	292	1789.4 (1788)	2133.4 (2132)
263	1702.4 (1701)	2127.4 (2126)	293	1792.4 (1791)	2136.4 (2135)
264	1705.4 (1704)	2130.4 (2129)	294	1795.4 (1794)	2139.4 (2138)
265	1708.4 (1707)	2133.4 (2132)	295	1798.4 (1797)	2061.4 (2060)
266	1711.4 (1710)	2136.4 (2135)			
267	1714.4 (1713)	2139.4 (2138)			
268	1717.4 (1716)	2061.4 (2060)			
269	1720.4 (1719)	2064.4 (2063)			
270	1723.4 (1722)	2067.4 (2066)			

Note – An administration may however assign to a coast station a receiving frequency in an unplanned band, in which case the procedure of Article 12 of the Radio Regulations applies.

RECOMMENDATION No. 6

Frequency Pairs in the Bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz to be Used for Digital Selective Calling for National and International Purposes

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

considering

a) that the World Administrative Radio Conference for the Mobile Services, (Geneva, 1983) could not prepare frequency assignment plans for the bands 435 - 526.5 kHz and 1 606.5 - 2 160 kHz and resolved in Resolution No. 704 (Mob-83) that a Regional Administrative Radio Conference for Region 1 be convened to prepare frequency assignment plans;

b) that this Conference designated frequency pairs in the MF band to be used for digital selective calling for national and international purposes in the band 435 - 526.5 kHz and for national purposes only in the band 1 606.5 - 2 160 kHz (Resolution No. 5);

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

recognizing

a) that this Conference could not designate a frequency pair for digital selective calling for international use in the band 1 606.5 - 2 160 kHz;

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

recommends

that the World Administrative Radio Conference for the Mobile Services, scheduled for 1987, should consider

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

2. designating a frequency pair for digital selective calling in the band 1 606.5 - 2 160 kHz for world-wide international use;

3. making provision in the Radio Regulations for frequency pairs to be made available on a world-wide basis for digital selective calling for national purposes,

invites the Administrative Council

to include in the agenda of the WARC for the Mobile Services, scheduled for 1987, provisions to ensure that the Conference will be competent to review parts of Article 62 of the Radio Regulations so as to cover paragraphs 1 to 3 of "*recommends*" above,

invites the CCIR

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

2. to review the appropriate CCIR Recommendations.

RECOMMENDATION No. 7

Deletion from the Plans of Assignments which are no Longer Required

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

considering

a) that, in accordance with its agenda, the Conference established Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

b) that the Conference established these Plans without taking account of the date by which the assignments included in them will be brought into use;

c) that the Conference did not consider it appropriate to fix a period for the validity of the Plans;

d) that during the years following the adoption of the Plans by the Conference, administrations may need to modify their projected uses of the planned bands;

e) that, at the same time, administrations might need additional assignments;

f) that the Conference was unable to satisfy all the requirements submitted by administrations and identified those requirements which could not be met;

g) that the Conference adopted Article 6 of the Agreement applicable to frequency assignments to stations of the other services to which the planned bands are also allocated on a primary or permitted basis;

h) that the Conference requested the IFRB periodically to consult administrations as to their intentions with respect to the bringing into use of the assignments in the Plans,

urges administrations

1. to inform the IFRB as soon as possible of any assignment which they no longer require with a view to its deletion from the Plan concerned;

2. to review their assignments in the Plans when they are consulted by the IFRB in accordance with paragraph 4.34 of the Agreement and to request it to cancel from the Plan concerned those assignments which they no longer require.

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