



**Documents of the Regional Administrative Radio Conference for the Maritime Mobile Service and the
Aeronautical Radionavigation Service in certain parts of the MF band in Region 1
(Geneva, 1985)**

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REGION 1

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

Document No. DT/1-E
24 February 1985
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PLENARY MEETING

Draft

Note by the Secretary-General

STRUCTURE OF THE REGIONAL ADMINISTRATIVE RADIO CONFERENCE FOR THE MARITIME MOBILE SERVICE AND THE AERONAUTICAL RADIONAVIGATION SERVICE IN CERTAIN PARTS OF THE MF BAND IN REGION 1 Geneva, 1985

The agenda of the Conference appears in Resolution No. 897 which was adopted by the Administrative Council at its 38th Session (Geneva, 1983). This Resolution is reproduced in the annex to Document No. 1 of the Conference.

Bearing in mind Nos. 464 to 479 inclusive of the International Telecommunication Convention, Nairobi, 1982, the following committees with their terms of reference are suggested. These terms of reference have been drawn up within the framework of the Convention, the Conference Agenda and in the light of experience at previous conferences.

Committee 1 - Steering Committee

Terms of Reference :

To coordinate all matters connected with the smooth execution of work and to plan the order and number of meetings, avoiding overlapping wherever possible in view of the limited number of members of some delegations (Nos. 468 and 469 of the International Telecommunication Convention, Nairobi, 1982).

Committee 2 - Credentials Committee

Terms of Reference :

To verify the credentials of delegations and to report on its conclusions to the Plenary Meeting within the time specified by the latter (Nos. 390 and 471 of the International Telecommunication Convention, Nairobi, 1982).

Committee 3 - Budget Control Committee

Terms of Reference :

To determine the organization and the facilities available to the delegates, to examine and approve the accounts of expenditure incurred throughout the duration of the Conference and to report to the Plenary Meeting the estimated total expenditure of the Conference as well as the estimated costs entailed by the execution of the decisions of the Conference (Nos. 476 to 479 inclusive and No. 627 of the International Telecommunication Convention, Nairobi, 1982 and Nairobi Resolution No. 48).



Committee 4 - Technical Committee

Terms of Reference

To elaborate the technical parameters necessary for the establishment of frequency assignment plans in the following frequency bands in Region 1:

- for the maritime mobile service :
415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz,
1 635 - 1 800 kHz and 2 045 - 2 160 kHz

- for the aeronautical radionavigation service :
415 - 435 kHz and 505 - 526.5 kHz

(item 2.1 of the Agenda);

To consider the technical criteria to be applied for the reassignment of replacement frequencies for stations of the Maritime Mobile Service and the technical criteria to be applied, when establishing the Plan for the Maritime Mobile Service; to afford appropriate protection to 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 (items 2.2 and 2.3 of the Agenda).

To elaborate the technical parameters to be taken into consideration for the establishment of procedures intended for future modifications to the Plans and permitting a compatible development of the other services to which the bands are allocated (item 2.4 of the Agenda).

Committee 5 - Planning Committee

Terms of Reference :

To establish frequency assignment plans in the following frequency bands in Region 1 having regard to No. 419 of the Radio Regulations and Appendices 1 and 2 to Resolution No. 704 of the WARC for the Mobile Services, Geneva, 1983:

- for the maritime mobile service :
415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz,
1 635 - 1 800 kHz and 2 045 - 2 160 kHz

- for the aeronautical radionavigation service :
415 - 435 kHz and 505 - 526.5 kHz

(item 2.1 of the Agenda);

To reassign replacement frequencies for stations of the maritime mobile service in accordance with resolves 2 of Resolution No. 38 of WARC-79 (item 2.2 of the Agenda).

When establishing the Plan for the maritime mobile service, to afford appropriate protection to 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 (item 2.3 of the Agenda).

Committee 6 - Agreement and Procedures Committee

Terms of Reference :

To establish an agreement in the following frequency bands in Region 1:

- for the maritime mobile service :

415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz,
1 635 - 1 800 kHz and 2 045 - 2 160 kHz

- for the aeronautical radionavigation service :

415 - 435 kHz and 505 - 526.5 kHz

(item 2.1 of the Agenda);

To establish procedures intended for future modifications to the Plans and permitting a compatible development of the other services to which the bands are allocated (item 2.4 of the Agenda).

To establish the final texts of Appendices to the Radio Regulations containing the channelling arrangements in Appendices 1 and 2 to Resolution No. 704 of the WARC for the Mobile Services, Geneva, 1983 in the bands referred to above with the view to their later inclusion in the Radio Regulations (item 2.5 of the Agenda).

To agree on a date of implementation of the above Plans, taking into account the needs of the other services to which Resolution No. 38 of WARC-79 applies (item 2.6 of the Agenda).

Committee 7 - Editorial Committee

Terms of Reference

To perfect the form of the texts prepared in the various committees of the Conference, without altering the sense, for submission to the Plenary Meeting (Nos. 473 and 474 of the International Telecommunication Convention, Nairobi, 1982).

REGION 1

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

FEBRUARY/MARCH 1985

Document DT/2-E
25 February 1985

DRAFT

AGENDA

OF THE

FIRST PLENARY MEETING

Monday, 25 February 1985, at 1430 hrs

(Room I)

Document No.

- | | |
|---|------|
| 1. Approval of the agenda | - |
| 2. Opening of the Conference | - |
| 3. Election of the Chairman of the Conference | - |
| 4. Election of the Vice-Chairmen of the Conference | - |
| 5. Address by the Secretary-General | - |
| 6. Conference Structure | DT/1 |
| 7. Election of the Chairmen and Vice-Chairmen of the Committees | - |
| 8. Composition of the Conference Secretariat | - |
| 9. Allocation of documents to Committees | DT/3 |
| 10. Participation requests submitted by international organizations | 28 |
| 11. Date by which the Credentials Committee must submit its conclusions | - |
| 12. Working hours of the meetings of the Conference | - |
| 13. Financial responsibilities of administrative conferences | 20 |
| 14. Other business | |

R.E. BUTLER
Secretary-General

RÉGION 1

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

Document N° DT/3-F/E/S
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anglais
espagnol

SEANCE PLENIERE
PLENARY MEETING
SESION PLENARIA

Projet / Draft / Proyecto

Note du Secrétaire général / Note by the Secretary-General
Nota del Secretario General

ATTRIBUTION DES DOCUMENTS / ALLOCATION OF DOCUMENTS
ATRIBUCION DE LOS DOCUMENTOS

<u>Plenièrre</u>	: 1, 14 + Add.1, 28
<u>Plenary</u>	
<u>Plenaria</u>	
C2 - <u>Pouvoirs</u>	: 2
<u>Credentials</u>	
<u>Credenciales</u>	
C3 - <u>Budget</u>	: 18, 19, 20, 25
<u>Presupuesto</u>	
C4 - <u>Technique</u>	: 3, 6 + Corr.1 + Corr.2 + Add.1, 8,
<u>Technical</u>	15 + Add.1, 21, 23
<u>Técnica</u>	
C5 - <u>Planification</u>	: 3, 4, 5, 6 + Corr.1, 7, 8, 9(Rev.1),
<u>Planning</u>	11, 12, 13, 14 + Add.1, 15 + Add.1,
<u>Planificación</u>	21, 22, 23, 24, 26
C6 - <u>Accord et procédures</u>	: 4, 5, 6 + Corr.1, 7, 8, 9(Rev.1), 10,
<u>Agreement and Procedures</u>	13, 15 + Add.1, 16, 17, 22
<u>Acuerdo y procedimientos</u>	

R.E. BUTLER
Secrétaire général

REGION 1

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

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COMMITTEE 4

NOTE BY THE CHAIRMAN OF COMMITTEE 4

The Annex contains an analysis of proposals concerning technical parameters necessary for the establishment of frequency assignment plans in Region 1 for the maritime mobile and the aeronautical radionavigation services (Documents 3, 6 + Corr.1 + Corr.2 + Add.1, 15 + Add.1).

E. GEORGE
Chairman of Committee 4

Annex: 1

ANNEX

1. Maritime mobile service

1.1 Band around 500 kHz

Document Parameter	3 (CCIR)	6 (E)	15 (NOR/S)
Propagation (ground wave according to CCIR Rec. 368)	$\epsilon = 70$, $\sigma = 5$ S/m (sea water) other combinations for land or mixed paths, no specific indications; sky wave: CCIR Rep. AC/6	70/5 (sea water) 30/3.10 ⁻² (land 1) 30/10 ⁻² (land 2) 15/3.10 ⁻³ (land 3) mixed paths: Millington method; sky wave; see Add. 1; coverage area: ground wave; interference range: maximum of ground and sky wave	70/5 (sea water) 30/10 ⁻² (wet ground) sky wave: simplified curve compared to Rep. AC/6; day-time protection: ground wave only
Minimum usable field strength in dB(μ V/m)	ALA: 30, > 30°N 50, < 30°N FLB: 25, > 30°N 45, < 30°N	ALA: 30, > 30°N 45, < 30°N FLB: 30, > 30°N 45, < 30°N	ALA : 25, > 30°N FLB : 45, < 30°N
Co-channel protection ratio in dB	ALA } : 8 FLB }	ALA } : 8 FLB }	ALA } : 8 FLB }
Protection ratio in dB for frequency offset	Given in terms of receiver selectivity; ALA see Table II on page 4, FLB see Table 1 on page 3	FLB/FLB: -37 ALA/ALA: -4 ALA/FLB: -37 FLB/ALA: -4 ↑ ↑ interferer interfered with (adjacent channel)	ALA and FLB, 0.5 kHz: -38 1 kHz: -62
Channel spacing		500 Hz	500 Hz

1.2 Band around 2 MHz

Document Parameter	3 (CCIR)	6 (E)	15 (NOR/S)
Propagation (ground wave according to CCIR Rec. 368)	As for 500 kHz band	As for 500 kHz band	As for 500 kHz band
Minimum usable field strength in dB(μ V/m)	J3E: 34, > 30°N 54, < 30°N F1B: 16, > 30°N 36, < 30°N	J3E: 34, > 30°N 49, < 30°N F1B: 20, > 30°N 35, < 30°N	J3E: 34, > 30°N 54, < 30°N F1B: 16, > 30°N 36, < 30°N
Co-channel protection ratio in dB	J3E: 20 F1B: 8	J3E: 20 F1B: 8	J3E: 20 F1B: 8
Protection ratio in dB for frequency offset	Given in terms of receiver selectivity; F1B see Table I on page 3, J3E see Table III on page 5; see also top of page 6	J3E/J3E: -25 (adjacent channel)	J3E, 3 kHz: -25 6 kHz: -60 F1B, 0.5 kHz: -38 1 kHz: -62
Channel spacing		F1B: 500 Hz J3E: 3 kHz	F1B: 500 Hz J3E: 3 kHz

2. Aeronautical radionavigation service

Document Parameter	3 (CCIR)	15 (NOR/S)
Propagation (ground wave according to CCIR Rec. 368)	70/5 (sea water), 30/10 ⁻² (land) for 500 kHz; see also Rep. AC/6 for sky wave propagation	70/5 (sea water), 30/10 ⁻² (land); see also Rep. AC/6 for sky wave propagation
Minimum usable field strength in dB(μV/m) 415 - 435 kHz: see RR 2857	37, > 30°N/S 41.6, < 30°N/S	37, > 30°N/S 41.6, < 30°N/S
Co-channel protection ratio in dB 415 - 435 kHz: see RR 2854	15	15
Protection ratio in dB for frequency offset	Given in terms of receiver selectivity 0 kHz: 0 1 kHz: 6 3 kHz: 35 5 kHz: 65 6 kHz: 80 (Note - By applying the co-channel protection ratio of 15 dB, result is as in Document 15)	1 kHz: 9 2 kHz: -5 3 kHz: -20 4 kHz: -35 5 kHz: -50 6 kHz: -65
Channel spacing	1 kHz	1 kHz
Transmitter power		e.r.p. shall be determined from field strength at limit of coverage area

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GENEVA.

FEBRUARY/MARCH 1985

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COMMITTEE 5

DRAFT

REPORT BY THE CHAIRMAN OF COMMITTEE 5
TO THE PLENARY MEETING

Committee 5 considered provision No. 419 of the Radio Regulations and decided that in principle, the permitted service should not be taken into account during the planning process. However, in the bands 415 to 435 kHz and 505 to 526.5 kHz problems raised by permitted service requirements seem to be limited and can be solved on a case by case basis during the planning process. As for the bands between 1 606.5 kHz and 2 160 kHz the primary service is to be planned taking into account only the assignments recorded in the Master Register for countries and services mentioned in RR 483.

Several administrations reserved the right to revert to this subject, once first results of the planning process are available.

T. BØE
Chairman of Committee 5

REGION 1

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

FEBRUARY/MARCH 1985

Document DT/6-E
27 February 1985
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COMMITTEE 5

Draft

NOTE FROM COMMITTEE 4 TO COMMITTEE 5

The annex contains the decisions of Committee 4 concerning the technical parameters necessary for the establishment of frequency assignment plans in the following bands in Region 1:

- for the maritime mobile service:
415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz,
1 635 - 1 800 kHz and 2 045 - 2 160 kHz;
- for the aeronautical radionavigation service:
415 - 435 kHz and 505 - 526.5 kHz.

E. GEORGE
Chairman of Committee 4

Annex: 1

ANNEX

Technical parameters for the establishment of
frequency assignment plans

1. Maritime mobile service

1.1 Propagation

1.1.1 Ground-wave propagation

- Sea water, average salinity, 20°C, $\sigma = 5 \text{ S/m}$, $\epsilon = 70$
(CCIR Recommendation 368-4, Figure 1)
- Band 415 - 435 kHz: curve for 400 kHz
- Band 435 - 526.5 kHz: curve for 500 kHz
- Bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz, 2 045 - 2 160 kHz:
curve for 2 MHz

1.1.2 Sky-wave propagation

- Calculation according to CCIR Recommendation 435-4, sea gain is not taken into account (see also Document 15, paragraph 2.1.2)
- Field strengths produced by coast stations situated north of parallel 20° North and South of parallel 20° North will be calculated for geomagnetic latitudes 50° North and 30° South, respectively
- Bands 415 - 435 kHz and 435 - 526.5 kHz: curve for 500 kHz
- Bands 1 606.5 - 1 625, 1 635 - 1 800 kHz, 2 045 - 2 160 kHz:
curve for 1 800 kHz

1.1.3 Application of ground- and sky-wave propagation

- Ground-wave field strength: determination of coverage area
- Ground-wave field strength: determination of interference range, if no night time protection is required
- Maximum of ground and sky-wave field strength: determination of interference range, if night time protection is required

Note - This approach will considerably reduce the number of available assignments.

1.2 Minimum usable field strength

(to be provided later)

1.3 Protection ratio

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

* to be provided later

1.4 Multiple interference

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

1.5 Channel spacing

A1A and F1B: 0.5 kHz
J3E : 3 kHz

1.6 Transmitting power

If indicated in the plan, it should be given in terms of the e.m.r.p.

1.7 Additional information

Due to constraints in the available computer program, the computer analysis of the plan can neither take account of propagation over mixed paths nor of a more sophisticated method of sky-wave field strength prediction. These factors can, however, be taken into consideration in a case-by-case analysis, e.g. when solving incompatibilities during the conference. For mixed path propagation the Millington method, described in CCIR Recommendation 368, and for sky-wave propagation the simplified method described in Document 6, which is based on CCIR Recommendation 435, should be used.

In general, omnidirectional antennas are assumed. However, on a case-by-case basis, directional antennas may be taken into consideration, which would increase the sharing possibilities. Information on directional antennas is contained in Document 41.

2. Aeronautical radionavigation service

2.1 Propagation

- Ground-wave propagation only
- Wet ground, $\sigma = 10^{-2}$ S/m, $\epsilon = 30$ (CCIR Recommendation 368-4, Figure 3)
- Band 415 - 435: curve for 400 kHz
- Band 505 - 526.5: curve for 500 kHz

2.2 Minimum usable field strength

- 37 dB(μ V/m) for stations north of parallel 30° North and South of parallel 30° South;
- 41.6 dB(μ V/m) for stations between parallels 30° North and 30° South.

2.3 Protection ratio

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB
0	15
1	9
2	-5
3	-20
4	-35
5	-50
6	-65

2.4 Multiple interference

For a given compatibility calculation only the interference contribution from the strongest interfering shall be considered.

2.5 Channel spacing

1 kHz

2.6 Transmitting power

If indicated in the plan, it should be given in terms of the e.m.r.p. The e.m.r.p. shall be derived from the minimum usable field strength at the edge of the coverage area.

2.7 Additional information

Due to constraints in the available computer program, the computer analysis of the plan cannot take account of propagation over mixed paths. This factor can, however, be taken into consideration in a case-by-case analysis, e.g. when solving incompatibilities during the Conference, using the Millington method described in CCIR Recommendation 368.

REGION 1

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COMMITTEE 5

TERMS OF REFERENCE OF THE PLANNING GROUPS

It is proposed to set up two Planning Groups with the following terms of reference:

5A: On the basis of decisions taken by Committee 5

to establish frequency assignment plans in the following frequency bands in Region 1 having regard to Appendix 1 to Resolution No. 704 of the WARC for the Mobile Services, Geneva, 1983:

- for the maritime mobile service:
415 - 435 kHz, 435 - 526.5 kHz;
- for the aeronautical radionavigation service:
415 - 435 kHz and 505 - 526.5 kHz.

5B: On the basis of the decisions taken by Committee 5

to establish frequency assignment plans in the following frequency bands in Region 1 having regard to Appendix 2 to Resolution No. 704 of the WARC for the Mobile Services, Geneva, 1983:

- for the maritime mobile service:
1 606.5 - 1 625 kHz,
1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

to reassign replacement frequencies for stations of the maritime mobile service in accordance with resolves 2 of Resolution No. 38 of WARC-79.

T. BØE
Chairman of Committee 5

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE
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GENEVA.

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COMMITTEE 5

Draft

SECOND NOTE FROM COMMITTEE 4 TO COMMITTEE 5

Subject: Technical criteria to be applied for the reassignment of replacement frequencies for stations of the maritime mobile service (item 2.2 of the agenda)

Committee 4 has decided that the criteria should be those already adopted for the establishment of a frequency assignment plan for the maritime mobile service in Region 1 in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz (see Document ...).

E. GEORGE
Chairman of Committee 4

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
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COMMITTEE 5

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THIRD NOTE FROM COMMITTEE 4 TO COMMITTEE 5

Subject: Technical criteria to be applied, when establishing the Plan for the maritime mobile service in order to afford appropriate protection to 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 (item 2.3 of the Agenda)

In order to meet the above-indicated objective, Committee 4 has decided a two-step approach.

Step 1: In applying the planning program (Swedish part of the computer program package, see Document 24), a preliminary compatibility investigation vis-à-vis stations of the fixed and land mobile service will be carried out on the basis of the technical criteria given in the annex. This investigation will identify harmful interference only to stations of the fixed and land mobile service and not in the other direction.

Step 2: In applying the incompatibility analysis program (IFRB part of the computer program package, see Document 31) a final compatibility analysis vis-à-vis stations of the fixed and land mobile service will be carried out on the basis of the IFRB Technical Standards (Document 31, Annex 2). This analysis will identify harmful interference in both directions.

It is for Committee 5 to decide for which categories of services (primary, permitted) and regions (Region 1 only or more than one region) this analysis shall be carried out.

E. GEORGE
Chairman of Committee 4

Annex: 1

ANNEX

Technical criteria to be applied for protecting stations
of the fixed and land mobile service in the
bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz
from interference from stations of the maritime mobile service

1. Propagation

1.1 Ground-wave propagation

Wet ground, $\sigma=10^{-2}$ S/m, $\epsilon=30$ (CCIR Recommendation 368-4, Figure 3, curve for 2 MHz).

1.2 Sky wave propagation

Calculation for 1 800 kHz according to CCIR Recommendation 435-4 for midnight conditions, polarization coupling loss and sea gain are not taken into account; field strengths produced by coast stations situated north of parallel 20° North and South of parallel 20° North will be calculated for geomagnetic latitudes of 50° North and 30° South, respectively (see Figures 6 and 7 of Document 6 (Add.1)).

1.3 Application of ground and sky wave propagation

The maximum of ground and sky wave field strength will determine the interference range.

2. Minimum usable field strength

39 dB(μ V/m)

3. Protection ratio

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB
0	20
2	0
2.5	-14
3	-24
3.5	-31
4	-37
4.5	-43
5	-48
5.5	-54
6	-60

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
**RARC FOR THE MARITIME MOBILE SERVICE
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PLANNING GROUPS 5A AND 5B

NOTE BY CHAIRMAN OF COMMITTEE 5 TO PLANNING GROUPS 5A AND 5B

As of 28 February 1985, Committee 5 had taken the following decisions:

1. Committee 5 considered provision No. 419 of the Radio Regulations and decided that in principle, the permitted service should not be taken into account during the planning process. However, in the bands 415 to 435 kHz and 505 to 526.5 kHz problems raised by existing assignments of the permitted service seem to be limited and can be solved on a case by case basis during the planning process.

Concerning the stations of the fixed and land mobile services under RR 483 in the bands 1 606.5 - 1 800 kHz and 2 107 - 2 160 kHz it is generally accepted, in principle, by the administrations concerned, that compatibility calculations concerning these stations will be based on ground-wave propagation only.

As only a very few incompatibility problems are expected it is agreed that no account should be taken of these stations during the planning process for the maritime mobile service. If, however, the compability analyses made by the IFRB, based on ground-wave propagation, show incompatibilities between the frequency assignment plan for the maritime mobile service and the stations of the fixed and land mobile services under RR 483, these problems shall be solved either by adjustment of assignments in the maritime mobile plan or by transferring some stations of the fixed or land mobile service to other frequencies in the same bands. The original IFRB Finding in the Master Frequency Register for the transferred assignments shall be retained.

Several administrations and the IFRB reserved the right to revert to this subject, once first results of the planning process are available.

2. Order of meeting the requirements in the planning process for coast stations

2.1 Bands contained in Appendix 1 of Resolution No. 704 (MOB-83)

2.1.1 The order of priority for the first planning exercise should be as follows:

- 1) one channel (two-paired frequencies) per coast station, day and night-time protection (sky wave);
- 2) additional channels with day time protection only;
- 3) additional requirements to be satisfied only with reduced service range or reduced protection, as necessary.

2.1.2 If the results of the first planning exercise with the conditions mentioned above are not satisfactory, another planning exercise should be carried out under the following conditions:

- 1) one channel (two-paired frequency) per coast station, day time protection only (ground-wave);
- 2) additional channels as in paragraphs 2) and 3) of point 2.1.1.

Reservation: Algeria and Greece.

2.1.3 When assigning frequencies for coast stations the first frequency should be protected according to the ALA criteria, the additional ones are to be protected under FLB criteria.

This is to be made on the understanding that, if only ALA emission is required this will be considered only, and that ALA emissions could be used also on FLB assignments.

Reservation: Greece.

2.2 Bands contained in Appendix 2 of Resolution No. 704 (MOB-83)

2.2.1 During the planning process, the following order of priority should be observed for coast stations using radiotelephony:

- 1) replacement requirements for the purpose of Resolution No. 38 (WARC-79) and replacement requirements for frequencies currently used within the bands to be planned by the Conference, without improving conditions such as replacing a common frequency for several stations by assigning a number of different frequencies;
- 2) new requirements.

Reservation: Spain.

2.2.2 During the planning process, coast station requirements for narrow-band direct-printing telegraphy, the following priority will be observed:

- 1) one channel (two-paired frequency) per coast station, day time protection only (ground-wave);
- 2) additional channels with day time protection only;
- 3) additional requirements to be satisfied only with reduced service range or reduced protection, as necessary.

2.2.3 No night-time protection should be afforded during the planning process either for radiotelephony or radiotelegraphy in the 2 MHz band.

Reservation: France, Madagascar.

2.3 No distinction should be made between official and public correspondence.

2.4 Consideration was given to Document 12 (F/12/1, F/12/2 and F/12/3) on retaining existing frequencies when planning. Committee 5 could not go along with this proposal. The French delegation reserved the right to come back to that issue at a later date.

2.5 Channelling arrangements

2.5.1 In the 500 kHz bands, it was decided to use the channelling arrangement for the maritime mobile service described in Document NOR/S/15/11 with the amendment contained in GRC/4/3. It was also decided to replace the international working frequencies: 425, 454, 468 and 480 kHz. The replacement frequencies will be determined later.

2.5.2.1 Although in Resolution No. 704, Appendix 2, the number of available ship station radiotelephony frequencies is less than those for coast stations, it is proposed to plan all the 55 coast station frequencies. Pairing arrangements with ship station frequencies should be made as described in Document NOR/S/15/13 reusing ship station frequencies on the understanding that adjacent coast station channels will not be assigned to geographically adjacent coast stations. Administrations could use appropriate ship station frequencies outside the bands mentioned in Appendix 2 of Resolution No. 704, after notification to and conclusions of the IFRB.

2.5.2.2 Concerning the NBDP and DSC (F1B) channelling arrangement, the solution proposed in Document NOR/S/15/12 is retained. The frequency 2 170.5 kHz is designated for international DSC use (WARC-MOB-83).

3. Planning criteria for aeronautical radiobeacons

Committee 5 decided not to set up priority order to meet requirements for aeronautical radiobeacons in the band 415 - 435 kHz. During the planning process only day time protection should be afforded. In the band 510 - 526.5 kHz, after the planning exercise for the maritime mobile service, a second computer run will be carried out for radiobeacons.

Concerning the channelling arrangement for aeronautical radiobeacons the proposal contained in Document NOR/S/15/23 was adopted.

4. Planning program

Committee 5 decided to use the planning method and associated computer programs offered by the Swedish Administration. This method is described in Document S/24.

5. Incompatibility analysis program offered by the IFRB

The incompatibility analysis program offered by the IFRB (Document 31) was accepted by the Committee.

6. Needs of countries which have not submitted requirements and are not present at the Conference

Committee 5 decided to ask the IFRB to represent the interests of those countries.

7. Service range limitation

No final decision was taken on the subject of the maximum service range, but for the purpose of the first computer run the Chairman of Committee 5 suggests, on the basis of the discussions in Committee 5, that the following service ranges should be applied:

- in the 2 MHz bands: 400 km
- in the 500 kHz bands: 500 km.

T. BØE
Chairman of Committee 5

COMMITTEE 6

Draft

FIRST NOTE FROM COMMITTEE 4 TO COMMITTEE 6

Subject: Technical parameters for the examination of future modifications to the Plan

Reference: Document 48

Committee 4 has agreed on the following conditions which, when met, do not require the agreement of the administration responsible for an existing assignment when a new assignment shall be entered into the Plan.

1. Vis-à-vis existing assignments in the Plan

The protection ratio for the existing assignment shall not be below that agreed for the establishment of the Plan. Its calculation shall be based on the relevant parameters used for the establishment of the Plan (see Document ...) with the following exception. The examination of a planned assignment of the maritime mobile service in the band 415 - 435 kHz or 505 - 506.5 kHz with regard to existing assignments of the aeronautical radionavigation service shall be based on propagation over sea (i.e. the data given in section 1.1 of the annex of Document 60 apply). The Board in communicating the list of countries, with which coordination has to be carried out, shall also indicate, for information only, the protection ratio achieved on the basis of propagation over land (i.e. the data given in section 2.1 of the annex to Document 60 apply).

2. Vis-à-vis assignments of permitted services

2.1 Permitted services for which this Conference is competent to establish technical criteria

The conditions given in section 1 apply.

2.2 Permitted services for which this Conference is not competent to establish technical criteria

The examination shall be based on the Technical Standards of the IFRB. The result must be a favourable or qualified favourable finding.

E. GEORGE
Chairman of Committee 4

REGION 1

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

Document DT/12-E
1 March 1985
Original: English

WORKING GROUP 6A

DRAFT

REPORT OF WORKING GROUP 6A TO COMMITTEE 6

1. The Working Group considered the proposals concerning the procedures for modification of the Plan and notification of frequency assignments in accordance with its terms of reference as described in Document 53 and adopted unanimously the texts of proposed Articles 4, 5 and 6 of the draft Agreement which appear in Annex 1.
2. It also adopted a draft Resolution No. COM6/1 which appears in Annex 2 concerning the application of the provisions of these articles before the entry into force of the Agreement.

M. MENCHEN
Chairman of Working Group 6A

Annexes: 2

ANNEX 1

ARTICLE 4

Procedure for modifications to the Plans

SECTION A - GENERAL

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

- a) to modify the characteristics to a station of the Maritime Mobile Service or to the Aeronautical Radio-navigation Service shown in the appropriate Plan, whether or not the station has been brought into use, or;
- b) to bring into use an assignment to a station of the Maritime Mobile Service or to the Aeronautical Radio-navigation Service not appearing in any of the appropriate Plans, or;
- c) to modify the characteristics of a frequency assignment to a station of the Maritime Mobile Service or to the Aeronautical Radionavigation Service for which the procedure in this Article has been successfully applied, whether or not the station has been brought into use, or;
- d) to cancel from the appropriate Plan a frequency assignment to a station of the Maritime Mobile Service or to the Aeronautical Radionavigation Service;

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

SECTION B - PROCEDURE FOR THE [MARITIME MOBILE SERVICE]

Procedure for Modifying the Characteristics of an Assignment or the Bringing into Use of a New Assignment

- 2. An administration proposing to modify the characteristics of an assignment or to bring an additional assignment into use shall, either directly or through the IFRB, seek the agreement of all other administrations whose assignments may be affected.
- 3. For the purposes of this procedure these other administrations shall be any which have:
 - a) assignments in the Plan or Plans for the same frequency band and whose service may be affected as a result of applying the criteria specified in Annex [] to this Agreement;
 - b) assignments recorded in the Master Register on behalf of a Contracting Member for stations of the primary or permitted services in the same frequency band which may be affected as a result of the application of the provisions of No. 1241 of the Radio Regulations together with the technical criteria contained in Annex [].

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

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

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

7. An administration which has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 5 shall be understood to have agreed to the proposed modification or addition.

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

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

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

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

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

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

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

SECTION C - PROCEDURE FOR THE [AERONAUTICAL RADIONAVIGATION SERVICE]

Procedure for Modifying the Characteristics of an Assignment or the Bringing into Use of a New Assignment

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

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

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

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

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

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

21. An administration which has not communicated its agreement or disagreement to the proposing administration and to the IFRB within a period of 90 days following the date of the weekly circular referred to in paragraph 19 shall be understood to have agreed to the proposed modification or addition.

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

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

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

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

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

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

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

SECTION D - CANCELLATION OF ASSIGNMENTS

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

30. If, within a period [5] years from the date of the inclusion of an assignment in the Plan, the IFRB has not received a notice relating to its bringing into use, that assignment shall be cancelled from the Plan. Before taking this action, the Board shall consult the administration concerned on the appropriateness of such a cancellation, and if special circumstances warrant the deletion may be suspended for a maximum period of six months.

SECTION E - MAINTENANCE AND PUBLICATION OF RECORDS

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

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

ARTICLE 5

Notification of Frequency Assignments

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

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

35. Notices of frequency assignments for which it has not been possible to reach agreement shall be treated as follows:

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

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

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

ARTICLE 6

Procedure applicable to the non-planned permitted
and primary services

1. To facilitate the successful implementation of 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 to permit the compatible development of the other primary and permitted services in the same bands, 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.

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

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

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

c) which is in conformity with this Agreement but has yet been notified in accordance with Article 5;

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

3. In the event of an unfavourable finding relating to a frequency assignment described in paragraphs 2 c) or 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 that assignment is brought into service.

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

ANNEX 2

DRAFT RESOLUTION No. COM6/1

relating to the application of Articles 4, 5 and 6 of the Agreement before the entry into force of the Agreement

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

considering

- a) that, in accordance with its agenda, it has adopted an Agreement and [2] associated Plans for the Maritime Mobile Service and the Aeronautical Radionavigation Service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 635 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 Plan or to add new assignments to the Plan 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 of modifications to the Plans and to ensure that the proposed uses of the primary and permitted services in the relevant bands are compatible with the Plans;

resolves

- 1. that, pending the entry into force of the Agreement administrations and the IFRB shall apply the procedures set out in Article 4 of the Agreement for the modification of the Plans;
 - 2. that administrations and the IFRB shall apply the procedures set out in Articles 5 and 6 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands.
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WORKING GROUP 6B

DRAFT RECOMMENDATION No. COM6/A (MM)

Relating to the channelling arrangement in the frequency
band 435 - 526.5 kHz in Region 1

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

considering

- a) that this Conference has established an agreement and associated frequency plan for the frequency band 435 - 526.5 kHz for the maritime mobile service;
- b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 1 to Resolution No. 704 (MOB-83) were used as a basis for the planning of 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 band 435 - 526.5 kHz;

noting

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

recommends

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

invites the Administrative Council

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

Annex: 1

ANNEX TO RECOMMENDATION No. COM6/A

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

[To be developed by Committee 5.]

DRAFT RECOMMENDATION No. COM6/B (MM)

**Relating to the channelling arrangement in the frequency
bands 1 606.5 - 1 625 kHz and 2 142 - 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 2 142 - 2 160 kHz for narrow-band direct printing in the maritime mobile service in Region 1;
- b) that the Tables of Recommended Assignable Frequencies appearing in Appendix 2 to Resolution 704 (MOB-83) were used as a basis for the planning of these bands;
- c) that in Resolution No. 704 (MOB-83) the Administrative Council is invited to place on the agenda of the WARC for the mobile services planned for 1987 an item covering the inclusion in the Radio Regulations of Appendices containing the channelling arrangements in the bands referred to above;
- d) that it is necessary to have a regulatory framework in the Radio Regulations concerning the use in Region 1 of the frequency bands 1 606.5 - 1 625 kHz and 2 142 - 2 160 kHz;

noting

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

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency bands 1 606.5 - 1 625 kHz and 2 142 - 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. COM6/B

**Channelling of the frequency bands 1 606.5 - 1 625 kHz and
2 142 - 2 160 kHz used for narrow-band direct-printing telegraphy
by the Maritime Mobile Service**

DRAFT RECOMMENDATION NO. COM6/C (MM)

**Relating to the channelling arrangement in the frequency
bands 1 635 - 1 800 kHz and 2 045 - 2 142 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 - 2 142 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 - 2 142 kHz;

noting

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

recommends

that the Table of Frequencies appearing in the annex to this Recommendation concerning the frequency bands 1 635 - 1 800 kHz and 2 045 - 2 142 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. COM6/C

**Channelling of the frequency bands 1 635 - 1 800 kHz and
2 045 - 2 142 kHz used for single sideband radiotelephony
by the Maritime Mobile Service**

[To be developed by Committee 5.]

REGION 1

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

Document DT/13-E
1 March 1985
Original: English

WORKING GROUP 6B

DRAFT

REPORT OF THE CHAIRMAN OF WORKING GROUP 6B
TO COMMITTEE 6

In accordance with its terms of reference, Working Group 6B has adopted the following texts which it submits for consideration by Committee 6:

Annex 1: Draft Agreement (excluding Articles on modification procedures and notification)

Annex 2: Draft Recommendations on the channelling arrangements [to follow]

M.J. BATES
Chairman of Working Group 6B

Annex: 1

ANNEX

DRAFT

REGIONAL AGREEMENT FOR REGION 1

concerning the use in Region 1 of the Frequency Bands
415 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and
2 045 - 2 160 kHz

Preamble

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

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

ARTICLE 1

Definitions

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

Union: The International Telecommunication Union;

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

ICAO: The International Civil Aviation Organization;

IFRB: The International Frequency Registration Board;

CCIR: The International Radio Consultative Committee;

Convention: The International Telecommunication Convention, Nairobi, 1982;

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

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

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

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

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

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

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

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

ARTICLE 2

Frequency Bands

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

- a) 415 - 435 kHz allocated to the aeronautical radionavigation service on a primary basis and to the maritime mobile service on a permitted basis;
- b) 435 - 526.5 kHz allocated to the maritime mobile service on a primary basis;
- c) 505 - 526.5 kHz allocated to the aeronautical radionavigation service on a permitted basis;
- d) 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz allocated to the maritime mobile service on a primary basis.

These provisions also apply to:

- e) Fixed and land mobile services on a permitted basis in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz (primary in the countries listed in No. 483 of the Radio Regulations);
- f) the radiolocation service, after successful application of the procedure of Article 14 (No. 484 of the Radio Regulations).

ARTICLE 3

Execution of this Agreement

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

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

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

6. When assigning frequencies to stations of primary and permitted services, Contracting Members shall take account of the frequency assignments to stations of the maritime mobile service which are in conformity with the Agreement.

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

ARTICLES 4, 5 AND 6

To be prepared by Working Group 6A

ARTICLE 7

Special Arrangements

37. In addition to the procedures provided for in Article 4 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

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

39. 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

40. This Agreement shall be subject to approval by the competent authorities of the Contracting Members. 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

41. 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 modified at the time of the accession and shall be made without reservation. The instruments of accession shall be deposited with the Secretary-General who shall promptly inform all the Members of the Union. This Agreement shall enter into force for each Member acceding to this Agreement after the date of its entry into force on the [thirtieth] day of the deposit by such a Member of its instrument of accession.

ARTICLE 11

Termination of Participation in this Agreement

42. 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.

43. 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.

44. 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

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

ARTICLE 13

Replacement of Copenhagen Plan, 1948

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

ARTICLE 14

Effective Date of this Agreement

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

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

REGION 1

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

Document DT/14-E
4 March 1985
Original: English

COMMITTEE 6

NOTE FROM THE CHAIRMAN OF COMMITTEE 4 TO THE CHAIRMAN OF COMMITTEE 6

Annexes A and B contain a possible layout of the technical annexes of the Agreement for consideration in Committee 6. Their contents are based on Documents 60, 61, 62 and 65.

This document was not considered by Committee 4.

E. GEORGE
Chairman of Committee 4

Annexes: 2

ANNEX A

(Source: Documents 60, 61 and 62)

Technical parameters used in establishing frequency assignment plans in Region 1 for the maritime mobile service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz and for the aeronautical radionavigation service in the bands 415 - 435 kHz and 505 - 526.5 kHz

1. Maritime mobile service

1.1 Modes of operation and classes of emission

Morse telegraphy (designation of emission 100 H1A) and single-sideband telephony (upper sideband, designation of emission /-2.4 / -2.7 / KJ3E) are operated in the bands below 526.5 kHz and above 1 606.5 kHz, respectively. Narrow-band direct-printing (transmission rate 100 bauds, frequency deviation ± 85 Hz, designation of emission 304 H1B) and digital selective calling (transmission rate 100 bauds, frequency deviation ± 85 Hz, designation of emission 304 H1B) are operated in all bands. Since the emission characteristics of narrow-band direct-printing and digital selective calling are essentially the same, they require the same minimum usable field strength and protection ratios. Subsequently the different modes of operation are referred to by their respective class of emission.

1.2 Propagation

1.2.1 Ground-wave propagation

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

1.2.2 Sky-wave propagation

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

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

1.2.3 Application of ground- and sky-wave propagation

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

1.3 Minimum usable field strength

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

1.3.1 Bands below 526.5 kHz

ALA: 36.5 dB(μ V/m) north of and on parallel 30° North
56.5 dB(μ V/m) south of parallel 30° North

FlB: 31.5 dB(μ V/m) north of and on parallel 30° North
51.5 dB(μ V/m) south of parallel 30° North

1.3.2 Bands above 1 606.5 kHz

FlB: 22.5 dB(μ V/m) north of and on parallel 30° North
42.5 dB(μ V/m) south of parallel 30° North

J3E: 37 dB(μ V/m) north of and on parallel 30° North
57 dB(μ V/m) south of parallel 30° North

1.4 Protection ratio

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

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

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 ALA and FLB: 0.5 kHz.

1.6.2 J3E: 3 kHz.

1.7 Transmitted power

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

1.7.1 Bands below 526.5 kHz: -7 dB.

1.7.2 Bands above 1 606.5 kHz: -4 dB.

1.8 Further considerations

Due to constraints in the available computer program, the computer analysis of the plan could neither take account of propagation over mixed land/sea paths nor of a more sophisticated method of sky-wave field strength prediction. These factors were, however, taken into consideration in a case by case analysis, when solving incompatibilities during the Conference. For mixed path propagation the Millington method, described in CCIR Recommendation 368-4, and for sky-wave propagation a simplified method, but more sophisticated than that used for the computer analysis of the Plan and also based on CCIR Recommendation 435-4, were used.

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

2. Aeronautical radionavigation service

2.1 Mode of operation and class of emission

The non-directional beacons with class of emission A2A operating in the bands under consideration provide direction finding information to aircraft. For identification purposes their call sign is transmitted in Morse telegraphy. Two types of beacon exist, having modulation frequencies of 400 Hz (± 25 Hz) and of 1 020 Hz (± 50 Hz), respectively. Complete information is contained in Annex 10 to the ICAO Convention on Civil Aviation.

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, $\epsilon = 30$. For the bands 415 - 435 kHz and 505 - 526.5 kHz the curves for 400 kHz and 500 kHz, respectively, were used. They are given in Figure 3 and refer to an e.m.r.p. of 1 KW.

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

2.3 Minimum usable field strength

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

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

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

2.4 Protection ratio

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

Frequency separation between wanted and interfering signal in kHz	Protection ratio in dB
0	15
1	9
2	-5
3	-20
4	-35
5	-50
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

1 kHz

2.7 Transmitted power

The effective monopole radiated power (e.m.r.p., see Radio Regulation 157) was derived from the minimum usable field strength 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 2.1 indicates that the propagation characteristics were predicted as for "wet ground" and thus when a significant fraction of the path from an interfering emission to the wanted coverage area was across sea water the predicted interference level may have been underestimated. It was thus necessary to examine each draft plan to ensure that possible

incompatibilities due to actual sea paths were identified. Each such case was analyzed individually using the curves for the appropriate conductivity. Where mixed paths were concerned the Millington method described in CCIR Recommendation 368-4 was used.

3. Compatibility between the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz and 505 - 526.5 kHz and at the band limit around 435 kHz

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

The parameters given in sections 1.2, 1.3 and 1.5 to 1.8 were applied. The protection ratios were as follows:

Frequency separation between wanted and interfering signals in kHz	Protection ratio in dB			
	interfering radiobeacon with 400 Hz modulation		interfering radiobeacon with 1 020 Hz modulation	
	wanted signal A1A	wanted signal F1B	wanted signal A1A	wanted signal F1B
0	8	8	8	8
0.5	2	2	-13	-38
1.0	-19	-44	2	2
1.5	-32	-68	-19	-44
2.0	-48		-32	-68
2.5	-66		-48	
3.0			-66	

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

The parameters given in sections 2.2, 2.3 and 2.5 to 2.8 were applied. It was assumed that a maritime mobile signal (A1A or F1B) has the same interference potential as an aeronautical radiobeacon signal.

3.3 Protection of the maritime mobile service immediately above 435 kHz against interference from aeronautical beacons immediately below 435 kHz and vice-versa

The criteria given in 3.1 and 3.2 were applied.

4. Technical criteria applied for the re-assignment 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 Chapter 1 and relevant to the bands above 1 606.5 kHz were applied.

5. Technical criteria applied for the protection of frequency assignments of stations of other services to which the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz are also allocated

In applying the planning program as part of the computer program package for the establishment of the plan, a frequency for stations of the maritime mobile service was selected on the basis of provisional sharing criteria between the services concerned. In applying in the second stage the incompatibility analysis program as part of the computer program package, the final and definite compatibility analysis vis-à-vis stations of the fixed and land mobile service was carried out on the basis of the Technical Standards of the IFRB. This analysis identified harmful interference in both directions.

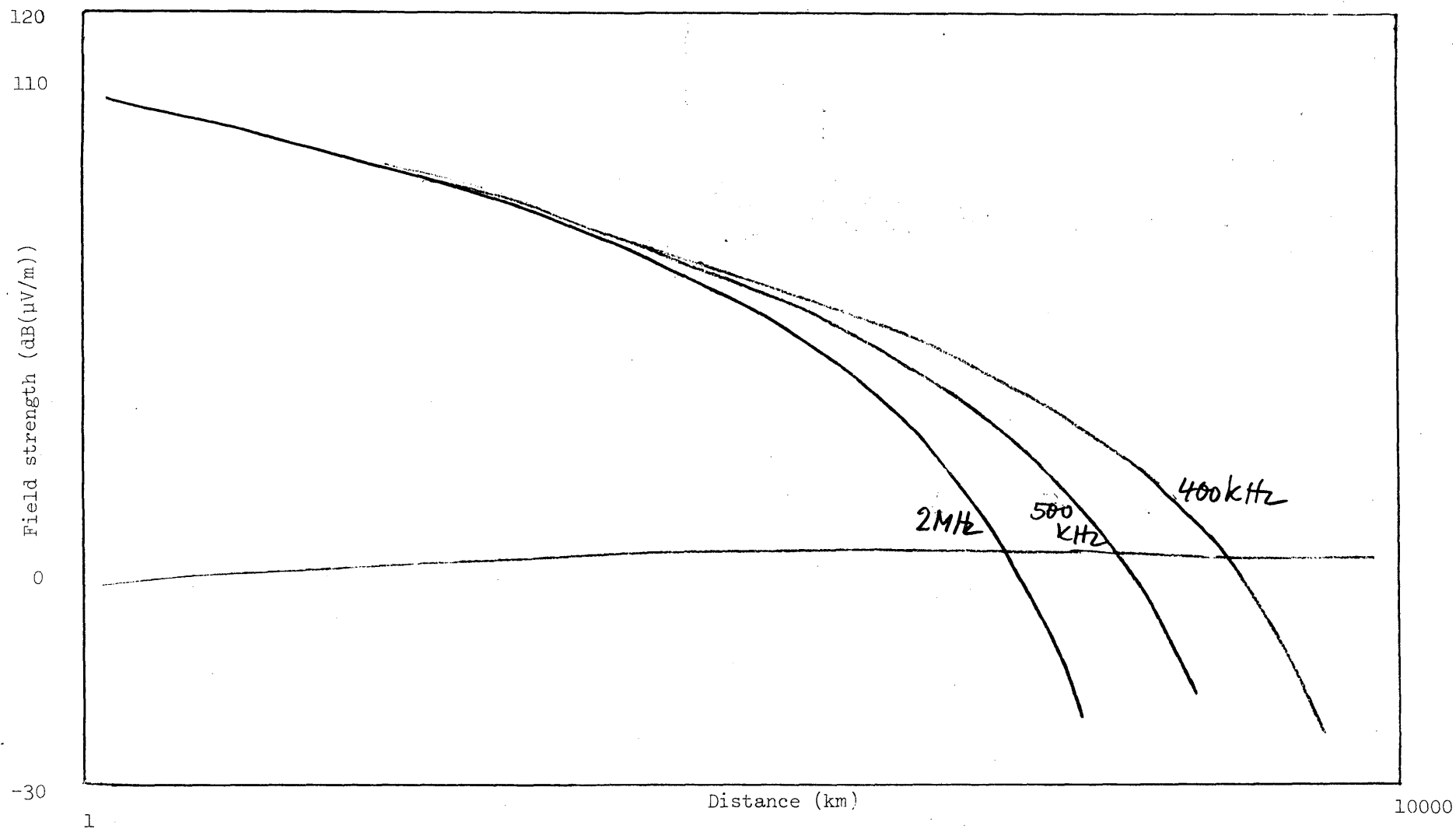


FIGURE 1

Ground-wave propagation, maritime mobile service

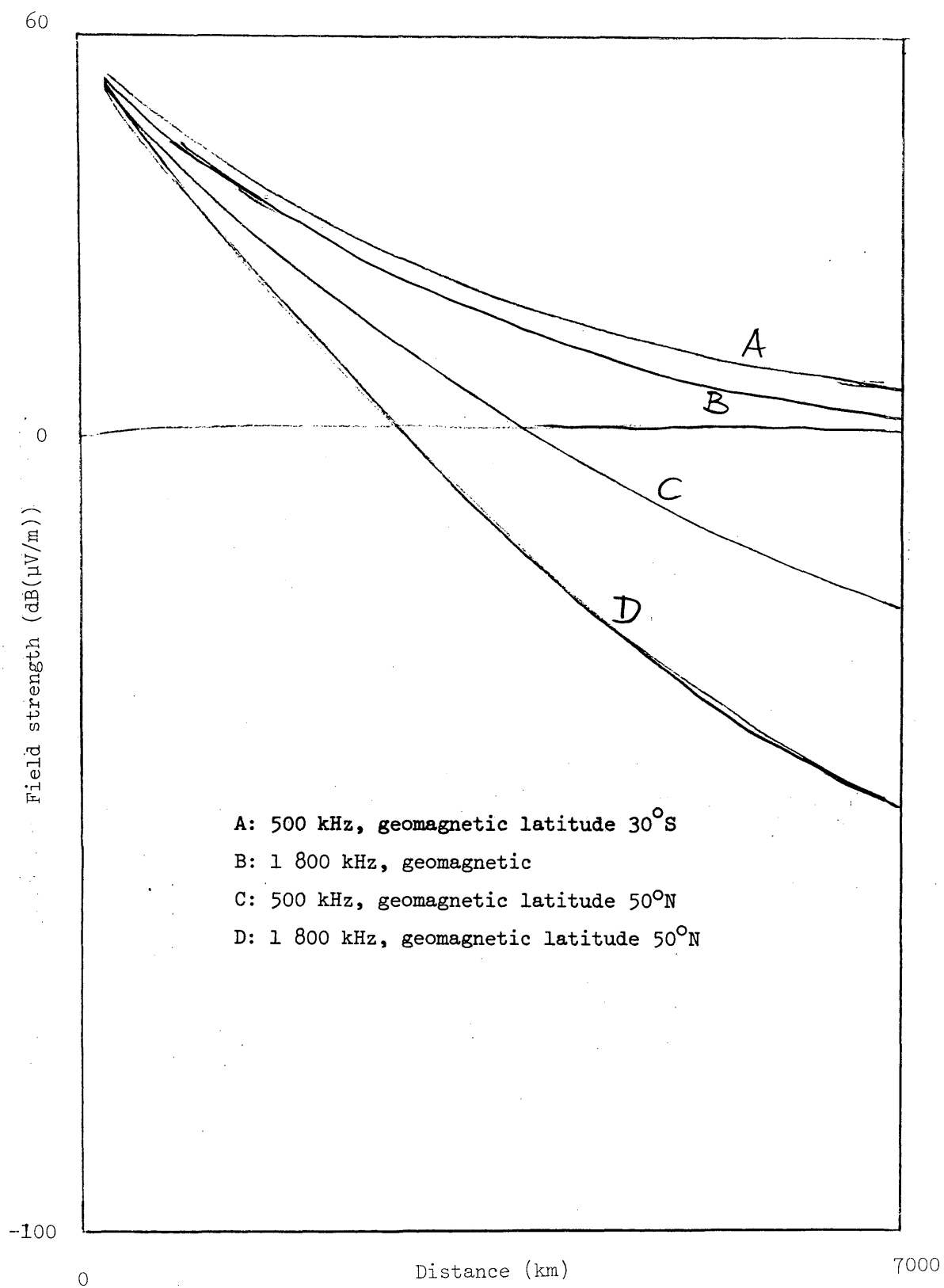


FIGURE 2

Sky-wave propagation, maritime mobile service

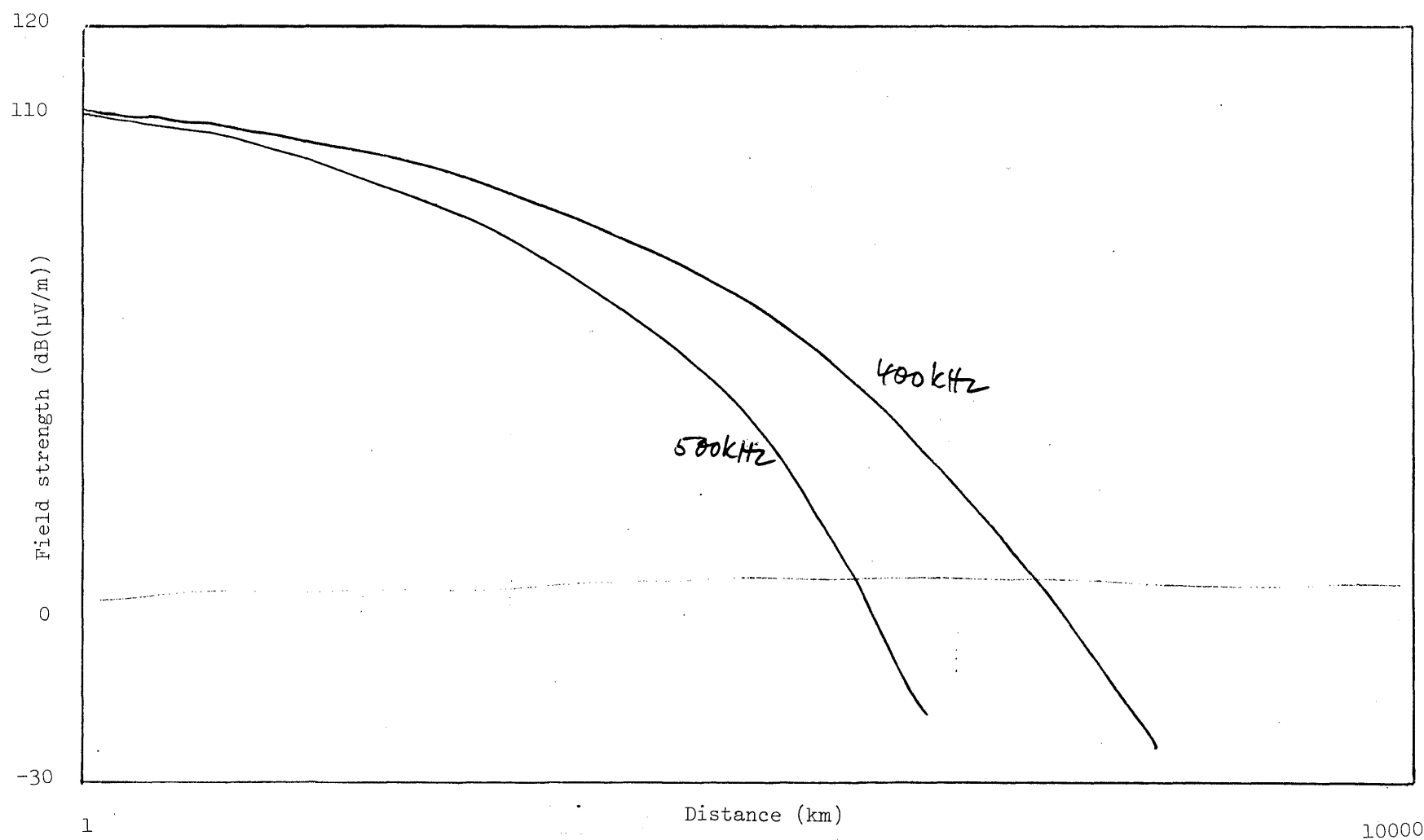


FIGURE 3

Ground-wave propagation, aeronautical radionavigation service

ANNEX B

(Source: Document 65)

Technical parameters to be applied in order to determine
whether coordination is required in the case of a future
modification to the Plan

1. Examination vis-à-vis existing assignments in the Plan

The examination shall be based on the relevant criteria used for the establishment of the Plan (see Annex A). However, the following exception shall apply:

The examination of a planned assignment of the maritime mobile service in the band 415 - 435 kHz or 505 - 526.5 kHz vis-à-vis existing assignments of the aeronautical radionavigation service shall be based on propagation over sea (i.e. the data given in section 1.2.1 of Annex A apply). The Board in communicating the list of countries, with which coordination has to be carried out, shall also indicate, for information only, the protection ratio achieved on the basis of propagation over land (i.e. the data given in section 2.2 of Annex A apply).

Coordination is required, if the protection ratio for the existing assignment due to the planned assignment is below that agreed for the establishment of the Plan.

2. Examination vis-à-vis assignments of primary services for which the Conference was not competent to establish technical criteria

The examination shall be based on the Technical Standards of the IFRB. Coordination is required if the examination results in an unfavourable Finding.

3. Examination vis-à-vis assignments of permitted services

3.1 Permitted services for which the Conference was competent to establish technical criteria

The conditions shall be those as indicated in section 1.

3.2 Permitted services for which the Conference was not competent to establish technical criteria

The examination shall be based on the Technical Standards of the IFRB. Coordination is required, if the examination results in an unfavourable Finding.

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE
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BAND IN REGION 1
GENEVA, FEBRUARY/MARCH 1985

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4 March 1985
Original: English

COMMITTEE 5

INFORMATION TO BE INCLUDED IN THE PLANS

Annexes 1 and 2 to this document contain a draft list of the information to be included in the Plans.

T. BØE
Chairman of Committee 5

Annexes: 2

ANNEX 1

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

1. Assigned frequency (kHz)/(carrier frequency (kHz) for J3E)
2. Channel number
3. Administration/country symbol (if different)
4. Transmitting coast station name
5. Geographical coordinates of the transmitting station
6. Service area:
 - geographical coordinates of the centre and radius (km) of the circular service range; or
 - geographical coordinates of (maximum six) points limiting the service area)
7. Nature of service
8. Necessary bandwidth and class of emission
9. Transmitting power:
 - 9A: effective monopole radiated power (e.m.r.p.) (dBW)

(calculated value on the basis of the minimum usable field strength and the service range for ground-wave propagation conditions)
 - 9B: power supplies to the antenna transmission line (dBW)

(calculated value: e.m.r.p. + 7 dB (for the 500 kHz bands)
e.m.r.p. + 4 dB (for the 2 MHz bands)
10. Antenna characteristics
 - 10A: azimuth of maximum radiation (ND for non-directional antenna)
 - 10B: maximum antenna gain
 - 10C: angular width of the main lobe
11. Hours of operation (UTC)
12. Mode of operation:

D: duplex or S: simplex

13. Nature of protection:

- A: ground-wave + sky-wave protection

- B: ground-wave protection only

14. Remarks

ANNEX 2

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

1. Assigned frequency (kHz)
 2. Channel number
 3. Administration/country symbol (if different)
 4. Transmitting station name
 5. Geographical coordinates of the transmitting station
 6. Service area: geographical coordinates and radius (km) of the circular service area
 7. Nature of service
 8. Necessary bandwidth and class of emission
 9. Transmitting power (dBW) in terms of e.m.r.p.

(value calculated on the basis of the minimum usable field strength and the service range for ground-wave propagation conditions)
 10. Antenna characteristics
 11. Hours of operation (UTC)
 12. Remarks
-

REGION 1

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

Document DT/16(Rev.1)-E
7 March 1985
Original: English

COMMITTEE 5

CHANNELLING ARRANGEMENTS

The annexes to this document contain the channelling arrangements to be proposed to Committee 6 for the maritime mobile service and the aeronautical radionavigation service (radiobeacons).

T. BØE
Chairman of Committee 5

Annexes: 4

ANNEX TO RECOMMENDATION No. COM 6/A

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

Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship station (kHz)	Channel No.	Coast station (kHz)	Ship Station (kHz)
1	435.5	475.5	41	516.5	467	[60	415.5	
2	436	476	42	517	467.5	61	416.0	
3	436.5	476.5	43	519	460.5	62	416.5	
4	437	477	44	519.5	468.5	63	417.0	
5	437.5	477.5	45	520	469	64	417.5	
6	438	478	46	520.5	469.5	65	418.0	
7	438.5	478.5	47	521	470	66	418.5	
8	439	479	48	521.5	470.5	67	419.0	
9	439.5	479.5	49	522	471	68	419.5	
10	440	461	50	522.5	471.5	69	420.0	
11	440.5	480.5	51	523	472	70	420.5	454.0
12	441	481	52	523.5	472.5	71	421.0	
13	441.5	481.5	53	524	473	72	421.5	
14	442	482	54	524.5	473.5	73	422.0	468.0
15	442.5	482.5	55	525	474	74	422.5	
16	443	483	56	525.5	474.5	75	423.0	480.0
17	443.5	483.5	57	526	475	76	423.5	
18	444	484				77	424.0	[]
19	444.5	484.5				78	424.5	
20	445	485				79	425.0	
21	445.5	485.5	[101	450	450	80	425.5	
22	446	486	102	450.5	450.5	81	426.0	
23	446.5	486.5	103	451	451	82	426.5	
24	447	487	104	451.5	451.5	83	427.0	
25	447.5	487.5	105	452	452	84	427.5	
26	448	488	106	452.5	452.5	85	428.0	
27	448.5	488.5	107	453	453	86	428.5	
28	449	489	108			87	429.0	
29	449.5	489.5	109			88	429.5	
30	510.5	461.5	110			89	430.0	
31	511	462	111			90	430.5	
32	511.5	462.5	112			91	431.0	
33	512.5	463	113			92	431.5	
34	513	463.5	114			93	432.0	
35	513.5	464	115			94	432.5	
36	514	464.5	116			95	433.0	
37	514.5	465	117			96	433.5	
38	515	465.5	118			97	434.0	
39	515.5	466	119]			98	434.5	
40	516	466.5				99]	435.0	

ANNEX TO RECOMMENDATION No. COM 6/B

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

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

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

ANNEX TO RECOMMENDATION No. COM 6/C

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

C h a n n e l No.	Coast station assigned fr. (carrier fr.) (kHz)	Ship station assigned fr. (carrier fr.) (kHz)
241	1636.4(1635)	2061.4(2060)
242	1639.4(1638)	2064.4(2063)
243	1642.4(1641)	2067.4(2066)
244	1645.4(1644)	2070.4(2069)
245	1648.4(1647)	2073.4(2072)
246	1651.4(1650)	2076.4(2075)
247	1654.4(1653)	2079.4(2078)
248	1657.4(1656)	2082.4(2081)
249	1660.4(1659)	2085.4(2084)
250	1663.4(1662)	2088.4(2087)
251	1666.4(1665)	2091.4(2090)
252	1669.4(1668)	2094.4(2093)
253	1672.4(1671)	2097.4(2096)
254	1675.4(1674)	2100.4(2099)
255	1678.4(1677)	2103.4(2102)
256	1681.4(1680)	2106.4(2105)
257	1684.4(1683)	2109.4(2108)
258	1687.4(1686)	2112.4(2111)
259	1690.4(1689)	2115.4(2114)
260	1693.4(1692)	2118.4(2117)
261	1696.4(1695)	2121.4(2120)
262	1699.4(1698)	2124.4(2123)
263	1702.4(1701)	2127.4(2126)
264	1705.4(1704)	2130.4(2129)
265	1708.4(1707)	2133.4(2132)
266	1711.4(1710)	2136.4(2135)
267	1714.4(1713)	2139.4(2138)
268	1717.4(1716)	2161.4(2060)
269	1720.4(1719)	2164.4(2063)
270	1723.4(1722)	2167.4(2066)

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

201		
202		
203		
204		
205		

ANNEX TO [RECOMMENDATION No. COM 6/]

**Channelling arrangement of the frequency bands 415 - 435 kHz
and [505] - 526.5 kHz for the aeronautical radionavigation
service (radiobeacons)**

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

Channel No.	Frequency (kHz)
21	511
22	512
23	513
24	514
25	515
26	516
27	517
28	518
29	519
30	520
31	521
32	522
33	523
34	524
35	525

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE
AND THE AERONAUTICAL RADIONAVIGATION
SERVICE IN CERTAIN PARTS OF THE MF
BAND IN REGION 1
GENEVA.

FEBRUARY/MARCH 1985

Document DT/16-E
4 March 1985
Original: English

COMMITTEE 5

ASSIGNABLE FREQUENCIES IN THE BANDS TO BE PLANNED BY THIS CONFERENCE

1. Annexes 1 and 2 to this document contain the assignable frequencies to be taken into account in the planning process for the maritime mobile service. (See also Document 63, paragraph 2.5.)
2. In the frequency bands 415 - 435 kHz [and 510 - 526.5 kHz] the assignable frequencies shall be integral multiples of 1 kHz for the aeronautical radionavigation service (radiobeacons). The assignable frequencies are 416, 417, ... 433 and 434 kHz (19 channels) in the band 415 - 435 kHz (Documents 63 and 60).

T. BØE
Chairman of Committee 5

Annexes: 2

ANNEX 1

Assignable frequencies (channelling arrangement)
435 - 526.5 kHz

Band limits (kHz)	Assigned frequencies (kHz)	Channel No.		Remark
		Coast station	Ship station	
435	435.5	1		for FGMS and intership (see also RR 4237)
	.	.		
	.	.		
	449.5	29		
	450.0	-	-	
	.			
	.			
	460.0	-	-	
	460.5		43	
	461.0		10	
	461.5		30	RR 4237
	.		.	
	.		.	
	.		.	
	.		.	
	467.5		42	
	468.0	-	-	
	468.5		44	
	.		.	
	.		.	
	475.0		57	RR 4237
	475.5		1	
	.		.	
	.		.	
	479.5		9	
	480.0	-	-	
	480.5		11	
	.		.	
	.		.	
	489.5		29	

Assignable frequencies (channelling arrangement)
435 - 526.5 kHz (continued)

Band limits (kHz)	Assigned frequencies (kHz)	Channel No.		Remark
		Coast station	Ship station	
435	490.0	-	-	RR 491, 3018, Resolution No. 206 (MOB-83)
	.			
	.			
	510.0	-	-	
	510.5	30		
	.	.		RR 4237, 4239, 4241
	.	.		
	511.5	32		
	512.0	-	-	
	512.5	33		
	.	.		RR 474
	.	.		
	517.0	42		
	518.0	-	-	
	519.0	43		
	.	.		
	.	.		
	526.0	57		
526.5				

ANNEX 2

Assignable frequencies (channelling arrangement)

Band limits (kHz)	Assigned frequency (carrier frequency) (kHz)	Channel No.		Remark
		Coast station	Ship station	
1 606.5	1 607.0	201		NBDP (29 channels)
	.	.		
	.	.		
	.	.		
	.	.		
	1 620.5	228		DSC (8 channels)
	1 621.0	229		
	.	.		
	.	.		
	.	.		
	.	.		
	.	.		
1 625	1 624.5	236		
1 635	1 636.4 (1 635)	241		RTF (55 channels)
	.	.		
	.	.		
	.	.		
1 800	1 798.4 (1 797)	295		
2 045	2 046.4 (2 045)	-	-	RR 4358-4364
	2 049.4 (2 048)	-	-	
	2 052.4 (2 051)	-	-	
	2 058.4 (2 057)	-	-	
	2 061.4 (2 060)		241, 242	RTF (27 channels paired with 55 coast station transmit channels)
	.		.	
	.		.	
	.		.	
	.		.	
	2 136.4 (2 135)		291, 292	
	2 139.4 (2 138)		293, 294, 295	

Assignable frequencies (channelling arrangement)
1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz, 2 045 - 2 160 kHz (continued)

Band limits (kHz)	Assigned frequency (carrier frequency) (kHz)	Channel No.		Remark
		Coast station	Ship station	
2 160	2 142.0		201	NBDP (29 channels)
	.		.	
	.		.	
	.		.	
	.		.	
	2 155.5		228	DSC (8 channels)
	2 156.0		229	
	.		.	
	.		.	
	.		.	
	.		.	
	.		.	
	.		.	
	2 159.5		236	

REGION 1

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

FEBRUARY/MARCH 1985

Document DT/17-E
5 March 1985
Original: English/
French/
Spanish

WORKING GROUP 6A

Draft

SECOND REPORT OF WORKING GROUP 6A TO COMMITTEE 6

In accordance with the instructions received from Committee 6, the Working Group has prepared the annexed draft Resolutions concerning the steps to be taken in connection with the entry into force of the Regional Agreement.

M. MENCHEN
Chairman of Working Group 6A

Annexes: 3

ANNEX 1

DRAFT RESOLUTION No. COM6/1 (MM)

**Relating to the application of Articles 4, 5 and 6 of the
Agreement before the entry into force of the Agreement**

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

considering

- a) that, in accordance with its agenda, it has adopted an Agreement and [2] associated Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;
- b) that some administrations may need to modify the characteristics of assignments appearing in the Plans or to add new assignments to the Plans or to notify assignments included in the Plans before the Agreement enters into force;
- c) that some administrations may need to notify frequency assignments in the fixed service or the land mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz before the Agreement enters into force;
- d) that means must be provided, before the date of entry into force of the Agreement, to permit modifications to the Plans and to ensure that the proposed uses of the primary and permitted services in the relevant bands are compatible with the Plans;

resolves

- 1. that, pending the entry into force of the Agreement, administrations and the IFRB shall apply the procedures set out in Article 4 of the Agreement for the modification of the Plans;
- 2. that administrations and the IFRB shall apply the procedures set out in Articles 5 and 6 of the Agreement for the notification, examination and recording of frequency assignments in the relevant frequency bands;
- 3. that the temporary provisions in the Annex to this Resolution shall be applicable during the period in question.

ANNEX TO RESOLUTION NO. COM6/1

Provisional procedure applicable to frequency assignments notified under the terms of Article 5 of the Regional Agreement prior to the date of entry into force of the Agreement

1. When an administration proposes to notify the characteristics of an assignment entered in the Master Register in order to make it consistent with the Plan, or when an administration wishes to bring into service an assignment in conformity with the Plan, it shall notify that assignment in accordance with Article 5 of the Agreement.
2. The IFRB shall examine such notifications relating to assignments entered in the Master Register on the date of receipt of the notification and shall inform the notifying administration of any incompatibility it may establish.
3. The notifying administration shall endeavour to secure the agreement of the administrations identified under the terms of paragraph 2 above.
4. When the agreement of the administrations concerned has been obtained, the assignment may be brought into service in accordance with the Plan, and, if necessary, the corresponding assignment which has been the subject of the modification shall be deleted from the Master Register.

ANNEX 2

DRAFT RESOLUTION No. COM6/2 (MM)

**concerning the updating of the Master International Frequency Register
with regard to assignments of the planned services and in the
planned frequency bands to permit the entry into force of
the Agreement and associated Plans**

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

considering

- a) that, in accordance with the Agreement prepared by the present Conference, the Contracting Members have adopted [two] Plans for their maritime mobile service and aeronautical radionavigation service stations in the frequency bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;
- b) that under the provisions of Article 5 of the Agreement prepared by the present Conference, the Contracting Members are required to notify the IFRB of frequency assignments to stations of the planned services before they are brought into operation;
- c) that the administrations of Contracting Members and the IFRB should have a proper instrument for implementing with the least possible difficulty the Plans agreed at the present Conference;

resolves

- 1. that, within 90 days from the date on which the present Conference ends, the IFRB shall send to each administration a list of the planned service assignments entered on its behalf in the Master International Frequency Register. It shall at the same time send another list of the assignments entered on its behalf in the Plans adopted at the present Conference;
- 2. that when it sends these lists the IFRB shall request administrations to return it within 90 days a list showing the correspondence between the assignments entered in the Plans and those entered in the Master International Frequency Register;
- 3. that any assignment included in the Master International Frequency Register for the maritime mobile and aeronautical radionavigation services in the planned bands that has no corresponding assignment in the Plan shall be cancelled in the Register on the date of entry into force of the Agreement;
- 4. that, 90 days prior to the entry into force of the Regional Agreement, administrations shall notify the IFRB of the assignments in conformity with the Plan that are intended to replace the corresponding assignments entered in the Master Register;

5. that if, after examining the frequency assignments notified by administrations under the terms of this Resolution, the Board arrives at a favourable finding under No. 1241 of the Radio Regulations, these assignments shall retain the original date entered in column 2;
6. that, 30 days after the date of entry into force of the Regional Agreement, assignments entered in the Master Register for which the IFRB has not received a notice concerning the entry into service of the corresponding assignment in the Plan shall be retained in the Master Register with a remark in the appropriate column to show that the assignment in question is not entitled to any protection in relation to assignments that are in conformity with the Plan and must not cause any harmful interference to such assignments. Each administration concerned shall be advised of such action;
7. that if upon expiry of the above-mentioned period the Board receives a notice under the terms of paragraph 4 above, it shall cancel the corresponding assignment in the Master Register.

invites the IFRB

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

ANNEX 3

DRAFT RESOLUTION No. COM6/3 (MM)

Relating to the transfer of frequency assignments to stations of the maritime mobile service operating in the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz, 1 810 - 1 850 kHz and 2 160 - 2 170 kHz in Region 1

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

considering

- a) that the World Administrative Radio Conference, Geneva, 1979, allocated the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz to the radiolocation service and the band 1 810 - 1 850 kHz to the amateur service;
- b) that the bands mentioned in paragraph a) above were formerly allocated to the maritime mobile service;
- c) that, in Resolution No. 38, the World Administrative Radio Conference, Geneva, 1979, resolved that on the date of entry into force of a frequency assignment plan for the maritime mobile service in the band 1 606.5 - 2 850 kHz the operations of fixed and mobile stations in Region 1 should cease in the bands mentioned in paragraph a) above, except with regard to the countries and bands mentioned in Nos. 485, 490, 491, 493 and 499 of the Radio Regulations;
- d) that in the same Resolution the Conference resolved that replacement frequencies for stations of the maritime mobile service should be provided in the Plan referred to in paragraph c) above, together with the arrangements for their implementation;
- e) that the present Conference adopted a Regional Agreement to which are annexed frequency plans for stations of the maritime mobile service in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;

resolves

- 1. that, as soon as possible after the present Conference, the IFRB shall send to the administrations in Region 1 the extracts from the Master Register which contain the frequency assignments to stations of the maritime mobile service which are entered on their behalf 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, within a period of 90 days following the dispatch of the above-mentioned extracts, each administration shall return a copy of the extract showing opposite each assignment the frequency in the Plan to which the assignment will be transferred;

3. that, 90 days before the date of entry into force of the Regional Agreement, the administrations shall notify the IFRB of the assignments in conformity with the Plan which are to replace the assignments mentioned in paragraph 1 above;

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

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

6. that, on the date of entry into force of the Regional Agreement mentioned in paragraph d) above, the frequency assignments to stations of the maritime mobile service which have not been transferred in accordance with the provisions of paragraph 1 above shall be retained in the Master Register for information purposes, without a date in column 2 and with a remark to that effect in the appropriate column of the Master Register. The administrations concerned shall be advised of this measure.

REGION 1

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

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COMMITTEE 4

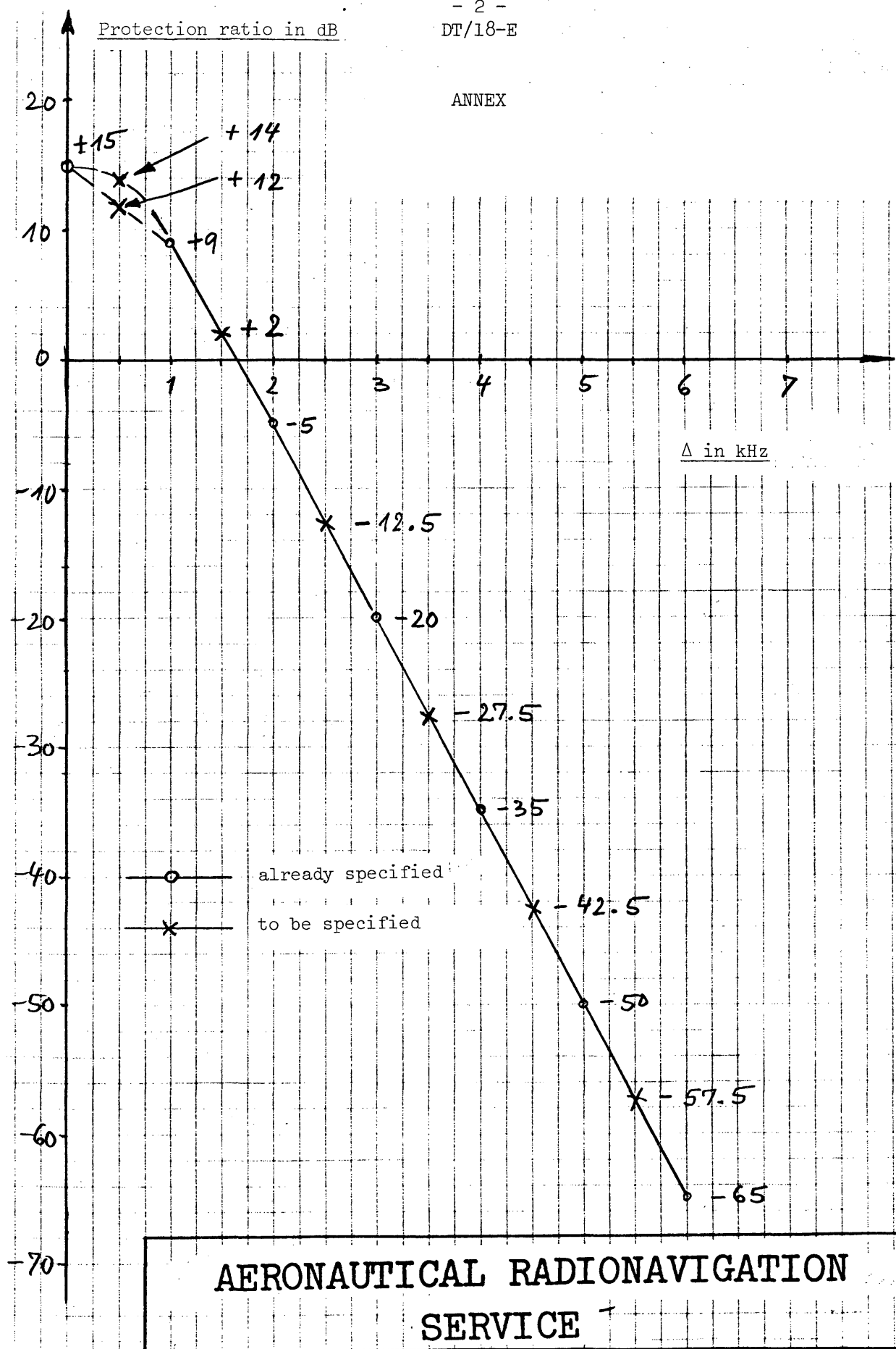
NOTE FROM THE CHAIRMAN OF COMMITTEE 4

Upon a request from Committee 5 (see Document 80), Committee 4 has to establish protection ratios for the aeronautical radionavigation service for a channel spacing of 500 Hz. The Annex contains a possible solution for consideration by the Committee.

E. GEORGE
Chairman of Committee 4.

Annex: 1

ANNEX



COMMITTEE 2

DRAFT

REPORT OF COMMITTEE 2 TO THE PLENARY MEETING

(CREDENTIALS)

1. Terms of reference of the Committee
The terms of reference of the Committee are set out in Document 33.
2. Meetings
The Committee met twice, on 27 February and 8 March 1985.

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

3. Conclusions

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

4. Final remark

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

J.F. PATRICIO
Chairman of Committee 2

Annex : 1

A N N E X

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

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

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

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

GUINEA (Republic of)
CHAD (Republic of the)

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

3. Delegations attending the Conference which have not deposited credentials

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

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

Note :

Credentials deposited for examination by the Working Group during the next meeting

BENIN (People's Republic of)
IRAQ (Republic of)
IRELAND
OMAN (Sultanate of)
GERMAN DEMOCRATIC REPUBLIC

REGION 1

INTERNATIONAL TELECOMMUNICATION UNION
RARC FOR THE MARITIME MOBILE SERVICE
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GENEVA.

FEBRUARY/MARCH 1985

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COMMITTEE 6

NOTE FROM THE CHAIRMAN OF COMMITTEE 6

After discussion with the Chairman of Committee 5 who confirmed that assignments of the permitted services had not been taken into account in the planning process, it is proposed that Committee 6 should develop a procedure to permit compatibility between the existing assignments of these services and those appearing in the Plan.

To this effect, the attached draft Resolution has been prepared and is submitted to Committee 6.

S. CHALLO
Chairman of Committee 6

Annex: 1

RESOLUTION No. COM 6/4 (MM)

Concerning the transfer of some assignments of the permitted services recorded in the International Frequency Register in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz.

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

considering

- a) the allocations in Article 8 of the Radio Regulations to different services in the frequency bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz [];
- b) the Plan established by the present Conference for the maritime mobile services in those frequency bands;
- c) that one of the decisions of the Conference has been that assignments of the permitted services at present entered in the International Frequency Register were not taken into account in the preparation of the Plan for the maritime mobile service;

resolves

- 1) that within 90 days of the end of the present Conference the IFRB shall carry out a compatibility analysis between the assignments entered in the Plan for the maritime mobile service and those entered in the International Frequency Register in the same bands for the permitted services;
- 2) that the IFRB shall send to every administration affected by such incompatibilities an extract from the International Frequency Register indicating the incompatibilities of their assignments in the services referred to in this Resolution with the plans for the maritime mobile service prepared by the present Conference;
- 3) that the administrations concerned shall make replacement assignments for those stations of the permitted services that prove incompatible with the Plan for the maritime mobile service. Administrations may request assistance from the IFRB in this process;
- 4) that administrations shall notify the IFRB of these replacement assignments and that the IFRB shall examine them in accordance with the procedure in Article 12 of the Radio Regulations. If the replacement assignments are in the same bands as those referred to in this Resolution, the IFRB shall apply the procedure in Article 6 of the Agreement prepared by the present Conference;

5) that if the replacement assignments are given a favourable finding by the IFRB, the provisions of Nos. 1445 - 1449 of the Radio Regulations shall be applied to them and they may retain their original date in the International Frequency Register;

6) that if any administration fails to replace those assignments in the permitted services that are incompatible with the Plan for the maritime mobile service before the entry into force of the Agreement, the IFRB shall retain this assignment 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.

REGION 1

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

FEBRUARY/MARCH 1985

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COMMITTEE 6

NOTE FROM CHAIRMAN OF COMMITTEE 6

In order to facilitate the consideration of draft Recommendation No. COM 6/D (see Document 96), the proposed amendments by the delegate of Algeria during the meeting of 8 March 1985 have been incorporated in the attached text.

S. CHALLO
Chairman of Committee 6

Annex: 1

ANNEX 2

DRAFT

RECOMMENDATION No. COM 6/D (MM)

**relating to the deletion from the Plan of assignments
which are no longer required**

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

considering

- a) that, in accordance with its agenda, the Conference established Plans for the maritime mobile service and the aeronautical radionavigation service in the bands 415 - 435 kHz, 435 - 526.5 kHz, 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz and 2 045 - 2 160 kHz;
- b) that the Conference established these Plans without taking account of the date by which these requirements will be brought into use;
- c) that the Conference did not consider appropriate to fix a period for the validity of the Plan;
- d) that during the years following the adoption of the Plans by the Conference, administrations may need to modify their projected uses of the planned bands;
- e) that, at the same time, administrations might need additional assignments;
- ebis) that the Conference identified those of the requirements submitted by administrations which could not be met;
- f) that the Conference adopted Article 6 of the Agreement applicable to frequency assignments to stations of the other services to which the planned bands are also allocated on a primary or permitted basis;
- g) that the Conference requested the IFRB to consult periodically administrations of their intentions with respect to the bringing into use of the assignments appearing in the Plans,

urges administrations

- 1. to inform the IFRB as soon as possible in order to cancel from the Plan concerned any assignment appearing in one of the Plans which they no longer require;
 - 2. to review their assignments appearing in the Plans when they are consulted by the IFRB in application of paragraph 30bis of the Agreement and to request it to cancel from the Plan concerned those assignments which they no longer require.
-

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
**CARR POUR LA PLANIFICATION DES FRÉQUENCES
UTILISÉES PAR LES RADIOPHARES MARITIMES
DANS LA ZONE EUROPÉENNE MARITIME**

GENÈVE,

MARS 1985

EUROP.

Document DT/1011-F/E/S
12 mars 1985

RÉGION 1

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

Document DT/22-F/E/S
12 mars 1985

Le document 1049 (EMA) / 107 (MM) est un PROJET DE RAPPORT de la
Commission de contrôle budgétaire aux séances plénières des deux conférences.
En conséquence, le N° du document doit être : DT/1011 (EMA)
DT/22 (MM).

The document 1049 (EMA) / 107 (MM) is a DRAFT REPORT of the Budget
Control Committee to the Plenary Meetings of the two Conferences. Consequently,
the document No. must be : DT/1011 (EMA)
DT/22 (MM).

El documento 1049 (EMA) / 107 (MM) es un PROYECTO DE INFORME de la
Comisión de control del presupuesto a la sesiones plenarias de las dos conferencias.
Por consiguiente, el N.º del documento debe ser : DT/1011 (EMA)
DT/22 (MM).