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**EXTRAORDINARY
ADMINISTRATIVE
RADIO
CONFERENCE**

FINAL ACTS

Volume I

**INTERNATIONAL
TELECOMMUNICATION
UNION**

—
GENEVA 1951

**AGREEMENT
FINAL PROTOCOL
RESOLUTIONS AND RECOMMENDATIONS**

EXTRAORDINARY ADMINISTRATIVE
RADIO CONFERENCE
GENEVA 1951

AGREEMENT

FOR THE PREPARATION AND ADOPTION OF THE
NEW INTERNATIONAL FREQUENCY LIST FOR THE
VARIOUS SERVICES IN THE BANDS BETWEEN
14 kc/s AND 27 500 kc/s WITH A VIEW TO BRINGING
INTO FORCE THE ATLANTIC CITY TABLE OF
FREQUENCY ALLOCATIONS

FINAL PROTOCOL

RESOLUTIONS AND RECOMMENDATIONS



INTERNATIONAL TELECOMMUNICATION UNION
GENEVA, DECEMBER 1951

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TABLE OF CONTENTS

	Page
Preamble	12
 CHAPTER I General Provisions	
<i>Article 1.</i> — Definitions	13
<i>Article 2.</i> — Provisions for Frequencies between 14 kc/s and 3950 kc/s (4000 kc/s Region 2)	14
<i>Article 3.</i> — Provisions for Frequencies between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s	15
<i>Section I.</i> — Fixed, Land Mobile and Broadcasting Services . .	15
<i>Section II.</i> — Maritime Mobile Service in its Exclusive Bands	15
<i>Section III.</i> — Aeronautical Mobile Service in its Exclusive Bands	16
<i>Section IV.</i> — Maritime and Aeronautical Mobile Services in Bands shared with other Services	17
 CHAPTER II Lists and Plans Adopted	
<i>Article 4.</i> — The New International Frequency List for the Band 14-150 kc/s	18
<i>Article 5.</i> — The New International Frequency List for Region 1 for the Bands 150-255 kc/s (African Area), 255-415 kc/s, 415-1605 kc/s (African Area), 1605-2850 kc/s, 3155-3400 kc/s and 3500-3900 kc/s	18
<i>Section I.</i> — Adoption of the List	18
<i>Section II.</i> — Power and Field Strength	18
<i>Section III.</i> — Use of Frequencies	20
<i>Section IV.</i> — Characteristics of Maritime Radiobeacons	22
<i>Article 6.</i> — The New International Frequency List for Region 2 for the Bands 150-2850 kc/s, 3155-3400 kc/s and 3500-4000 kc/s	23
<i>Section I.</i> — Bands 150-535 kc/s, 1605-2850 kc/s, 3155-3400 kc/s and 3500-4000 kc/s	23
<i>Section II.</i> — Band 535-1605 kc/s	24

	Page
<i>Article 7.</i> — The New International Frequency List for Region 3 for the Bands 150-2850 kc/s, 3155-3400 kc/s and 3500-3950 kc/s	24
<i>Article 8.</i> — Plans for Coast Stations of the Maritime Mobile Service in the Exclusive Bands between 4000 kc/s and 27 500 kc/s	25
<i>Section I.</i> — Frequency Allotment Plan for the Radiotelephone Service	25
<i>Section II.</i> — Frequency Assignment Plan for the Radiotelegraph Service	26
<i>Article 9.</i> — Aeronautical Mobile Service	28

CHAPTER III

Preparation of Lists and Plans for Fixed, Land Mobile and Broadcasting Services in the Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s

<i>Article 10.</i> — Preparation of the Draft International Frequency List for Fixed, Land Mobile and Tropical Zone Broadcasting Services	30
<i>Article 11.</i> — Preparation of Draft Plans for the High Frequency Broadcasting Service	31

CHAPTER IV

Procedure for the Transfer of Assignments into their Appropriate Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s

<i>Article 12.</i> — Interim Procedure Applicable to all Services	33
<i>Section I.</i> — Introduction	33
<i>Section II.</i> — Transfer of Assignments which are Outside the Bands Allocated to the Service Concerned in the Atlantic City Table of Frequency Allocations	33
<i>Section III.</i> — Establishment of New Assignments in the Appropriate Atlantic City Bands	35
<i>Section IV.</i> — Procedure in Cases of Harmful Interference	36
<i>Article 13.</i> — Progress Reviews and Reports	36
<i>Article 14.</i> — Special Procedure Applicable to the Maritime Mobile Service in its Exclusive Bands	37
<i>Section I.</i> — Introduction	37
<i>Section II.</i> — First Stage. Ship Radiotelegraph Calling Bands	37
<i>Section III.</i> — Second Stage. Cargo Ship Radiotelegraph Bands	38

	Page
<i>Section IV.</i> — Third Stage. Passenger Ship Radiotelegraph Bands	39
<i>Section V.</i> — Fourth Stage. Ship Radiotelephone Bands . . .	40
<i>Section VI.</i> — Fifth Stage. Coast Radiotelephone Bands . . .	40
<i>Section VII.</i> — Coast Radiotelegraph Bands	41
<i>Section VIII.</i> — Protection of Maritime Mobile Service	41
<i>Article 15.</i> — Special Procedure Applicable to the Aeronautical Mobile Service in its Exclusive Bands	41
<i>Section I.</i> — Aeronautical Mobile R Service	41
<i>Section II.</i> — Aeronautical Mobile OR Service	42
<i>Section III.</i> — Protection of Aeronautical Mobile Service	42

CHAPTER V

Final Adjustment of Out-of-Band Assignments into their Appropriate Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s

<i>Article 16.</i> — Procedure Applicable to all Services	44
<i>Article 17.</i> — Special Procedure Applicable to the Different Services	46

CHAPTER VI

Adoption of the New International Frequency List and Entry into Force of the Table of Frequency Allocations

<i>Article 18.</i> — Introduction	47
<i>Article 19.</i> — Band 14-55 kc/s (World-Wide)	47
<i>Article 20.</i> — Band 55-150 kc/s	48
<i>Article 21.</i> — Band 150-3950 kc/s in Region 1	48
<i>Section I.</i> — General	48
<i>Section II.</i> — Band 150-2850 kc/s	49
<i>Section III.</i> — Band 2850-3950 kc/s	50
<i>Article 22.</i> — Band 150-4000 kc/s in Region 2	51
<i>Section I.</i> — General	51
<i>Section II.</i> — Band 150-2000 kc/s	51
<i>Section III.</i> — Band 2000-2850 kc/s	51
<i>Section IV.</i> — Band 2850-4000 kc/s	51

	Page
<i>Article 23. — Band 150-3950 kc/s in Region 3</i>	52
<i>Section I. — General</i>	52
<i>Section II. — Band 150-2850 kc/s</i>	52
<i>Section III. — Band 2850-3950 kc/s</i>	53
<i>Article 24. — Special Provisions Applying to the Maritime Mobile Service for the Frequency 2182 kc/s</i>	54
<i>Article 25. — Special Provisions Applying to the Aeronautical Mobile Service in its Exclusive Bands between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2)</i>	54
<i>Article 26. — Special Provisions Regarding Bilateral or Multilateral Arrangements below 3950 kc/s (4000 kc/s Region 2)</i>	54
<i>Article 27. — Adoption of the New International Frequency List for the Fixed, Land Mobile and Tropical Zone Broadcasting Services for the Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s</i>	55
<i>Article 28. — Adoption of Plans for the High Frequency Broadcasting Service for the Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s</i>	55
<i>Article 29. — Entry into Force of the Plans for the Maritime Mobile Service in its Exclusive Bands between 4000 kc/s and 27 500 kc/s</i>	56
<i>Article 30. — Entry into Force of the Plans for the Aeronautical Mobile Service in its Exclusive Bands between 2850 kc/s and 27 500 kc/s</i>	56

CHAPTER VII

Notification and Registration of Frequencies. Interim Procedure for the Recording of Frequency Assignments

<i>Article 31. — Entry into Force of Articles 10, 11 and 12 of the Radio Regulations</i>	58
<i>Section I. — General Provisions of Articles 10, 11 and 12</i>	58
<i>Section II. — Provisions of Article 11 Relating to Notification and Registration Procedure</i>	58
<i>Section III. — Application of Interim Procedure</i>	59
<i>Section IV. — Significance of Dates in Column 2 of the Radio Frequency Record during the Interim Period</i>	59

	Page
<i>Article 32.</i> — Notification of Frequency Assignments by Administrations	60
<i>Section I.</i> — Where Article 11 of the Radio Regulations is in full force	60
<i>Section II.</i> — Where Article 11 of the Radio Regulations is not in full force	60
<i>Article 33.</i> — Recording of Frequency Assignments by the I.F.R.B.	62
<i>Section I.</i> — Assignments within the Bands for which Article 11 of the Radio Regulations is in full force	62
<i>Section II.</i> — Assignments within the Bands below 3950 kc/s (4000 kc/s Region 2), except the Exclusive Aeronautical Mobile Bands between 2850 kc/s and 3950 kc/s, during the Period in which Article 11 of the Radio Regulations is not in full force . . .	63
<i>Section III.</i> — Assignments within the Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s and the Exclusive Aeronautical Mobile Bands between 2850 kc/s and 3950 kc/s	64
<i>Section IV.</i> — Assignments above 27 500 kc/s	67
<i>Article 34.</i> — Master Radio Frequency Record	68
<i>Section I.</i> — General	68
<i>Section II.</i> — Basic Entries	68
<i>Section III.</i> — Particulars Required for Basic Entries in the Master Radio Frequency Record	69
<i>Section IV.</i> — Subsequent Entries and Amendments	71
<i>Article 35.</i> — Preparation and Publication of the Radio Frequency Record	71
<i>Article 36.</i> — I.T.U. List of Frequencies	72

CHAPTER VIII

<i>Article 37.</i> — Special Provisions Relating to the I.F.R.B.	73
--	----

CHAPTER IX

<i>Article 38.</i> — Entry into Force of certain Provisions of the Radio Regulations	74
--	----

CHAPTER X

<i>Article 39.</i> — Final Provisions	79
---	----

Appendix to Agreement

	Page
<i>Appendix.</i> — Columns of List I, Appendix 6, of the Radio Regulations which are to be filled in when submitting minimum information for inclusion in the Master Radio Frequency Record	99

Annexes

(published separately)

<i>Annex 1.</i> — The New International Frequency List for the Band 14-150 kc/s	See vol. II
<i>Annex 2.</i> — The New International Frequency List for Region 1 for the Bands 150-255 kc/s (African Area), 255-415 kc/s, 415-1605 kc/s (African Area), 1605-2850 kc/s, 3155-3400 kc/s and 3500-3900 kc/s	see vol. III
<i>Annex 3.</i> — The New International Frequency List for Region 2	see vol. IV
<i>Section I.</i> — Bands 150-535 kc/s, 1605-2850 kc/s, 3155-3400 kc/s and 3500-4000 kc/s	
<i>Section II.</i> — Band 535-1605 kc/s	
<i>Annex 4.</i> — The New International Frequency List for Region 3 for the Bands 150-2850 kc/s, 3155-3400 kc/s and 3500-3950 kc/s	see vol. V
<i>Annex 5.</i> — Plans for the Maritime Mobile Radiotelephone Service in the Exclusive Bands between 4000 kc/s and 27 500 kc/s. Coast Stations	see vol. VI
<i>Annex 6.</i> — The New International Frequency List for the Maritime Mobile Radiotelegraph Service in the Exclusive Bands between 4000 kc/s and 27 500 kc/s	see vol. VI
<i>Annex 7.</i> — Duplex Channelling of the Maritime Mobile Radiotelephone Bands 4000-23 000 kc/s	see vol. VI
<i>Annex 8.</i> — Plan for the Allotment of Frequencies for the Aeronautical Mobile R Service in the Exclusive Bands between 2850 kc/s and 27 500 kc/s	see vol. VII
<i>Annex 9.</i> — Plan for the Allotment of Frequencies for the Aeronautical Mobile OR Service in the Bands between 2850 kc/s and 27 500 kc/s	see vol. VII

	Page
Final Protocol	101

Resolutions and Recommendations

Page

<i>Resolution No. 1</i> relating to the Bringing into Force of the Plans and Lists adopted by the Conference	122
<i>Resolution No. 2</i> relating to the Entry into Force of the Band between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2)	123
<i>Resolution No. 3</i> relating to the Fixed, Land Mobile and Broadcasting Services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s	124
<i>Resolution No. 4</i> concerning Assistance to the Aeronautical Mobile Service in moving into its Allocated Bands	127
<i>Resolution No. 5</i> relating to the Study of Common Working Frequencies for the Maritime Mobile Telephone Service in the Band 2000-2850 kc/s	129
<i>Resolution No. 6</i> relating to the Guard Band for 2182 kc/s in Region 2	129
<i>Resolution No. 7</i> relating to the Provisions adopted for the Bands 1800-2000 kc/s and 3500-4000 kc/s at the Buenos Aires Regional Technical Meeting (1951)	130
<i>Resolution No. 8</i> relating to the Publication of Special Lists of Coast and Ship Stations for Regions 2 and 3	131
<i>Resolution No. 9</i> relating to the Dissolution of the Provisional Frequency Board	131
<i>Resolution No. 10</i> relating to the Discharge of the Tasks entrusted to the I.F.R.B. under the Agreement, and to the Staff and Budget Estimates of the I.F.R.B.	136
<i>Resolution No. 11</i> relating to the Buenos Aires Technical Meeting (1951)	137
<i>Resolution No. 12</i> relating to Administrative Council Resolution No. 156 (amended)	138
<i>Resolution No. 13</i> relating to the Cost of publishing the Final Acts of the Conference	138
<i>Recommendation No. 1</i> concerning the Protection of Aeronautical Mobile Communications at Band Edges	139
<i>Recommendation No. 2</i> concerning Secondary Sharing of Aeronautical Mobile OR Frequencies	140
<i>Recommendation No. 3</i> concerning Measures for reducing Congestion in the Frequency Bands between 1605 kc/s and 3900 kc/s in Region 1	141

	Page
<i>Recommendation No. 4</i> concerning the Limitation of the Power of Coast Radiotelephone Stations in Region 1	142
<i>Recommendation No. 5</i> concerning Frequency Tolerances in Region 1	142
<i>Recommendation No. 6</i> concerning the Use of the Radiotelephone Distress and Calling Frequency in Region 1	143
<i>Recommendation No. 7</i> concerning the Combined Use of Certain Radio-navigation Installations by the Maritime and Aeronautical Services in Region 1	144
<i>Recommendation No. 8</i> concerning the Classification of Radiobeacons in Region 1	144
<i>Recommendation No. 9</i> relating to the Use of Certain Frequencies in Region 2	145
<i>Recommendation No. 10</i>	146
<i>Recommendation No. 11</i> concerning International Monitoring	146
<i>Recommendation No. 12</i> concerning Identification of Emissions	147
<i>Recommendation No. 13</i> concerning Frequencies above 27 500 kc/s . .	149
<i>Recommendation No. 14</i> concerning C.C.I.R. Studies relating to the Inclusion of the Fixed, Land Mobile and Broadcasting Services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s in the Appropriate Bands of the Atlantic City Table of Frequency Allocations	150

AGREEMENT

for the preparation and adoption of the new International Frequency List for the various services in the bands between 14 kc/s and 27 500 kc/s with a view to bringing into force the Atlantic City Table of Frequency Allocations,

concluded at Geneva between the following countries:

Kingdom of Saudi Arabia ; Argentine Republic ; Commonwealth of Australia ; Austria ; Belgium ; Burma ; Bolivia ; Brazil ; Canada ; Ceylon ; Chile ; China ; Vatican City State ; Republic of Colombia ; Colonies, Protectorates, Oversea Territories and Territories under mandate or trusteeship of the United Kingdom of Great Britain and Northern Ireland ; Costa Rica ; Cuba ; Denmark ; Dominican Republic ; Egypt ; Spain ; United States of America ; Ethiopia ; France ; Greece ; Haiti ; India ; Republic of Indonesia ; Iran ; Ireland ; Iceland ; State of Israel ; Italy ; Japan ; Lebanon ; Luxembourg ; Mexico ; Monaco ; Nicaragua ; Norway ; New Zealand ; Pakistan ; Panama ; Paraguay ; Netherlands, Surinam, Netherlands Antilles and New Guinea ; Republic of the Philippines ; Portugal ; French Protectorates of Morocco and Tunisia ; Federal People's Republic of Yugoslavia ; United Kingdom of Great Britain and Northern Ireland ; Sweden ; Swiss Confederation ; Syrian Republic ; Territories of the United States of America ; Oversea Territories of the French Republic and Territories administered as such ; Portuguese Oversea Territories ; Thailand ; Turkey ; Union of South Africa and Territory of South West Africa ; Oriental Republic of Uruguay ; United States of Venezuela ; State of Viet-Nam ; Spanish Zone of Morocco and the totality of Spanish Possessions.

PREAMBLE

The undersigned delegates of the above-named countries assembled at the Extraordinary Administrative Radio Conference, on the proposal of the Administrative Council of the International Telecommunication Union, with the concurrence of a majority of the Members of the Union, have, in the names of their respective countries, adopted by mutual consent, the provisions contained in this Agreement and the Annexes thereof.

CHAPTER I
GENERAL PROVISIONS

ARTICLE 1
Definitions

- 1 § 1. In addition to the definitions appearing in Annex 2 to the International Telecommunication Convention (Atlantic City, 1947) and Articles 1 and 5 of the Radio Regulations, the following definitions have been formulated in connection with this Agreement ; these definitions are not necessarily applicable for other purposes.
- 2 § 2. *Frequency Assignment Plan.*
A plan which shows the frequencies to be used by specified stations.
- 3 § 3. *Frequency Allotment Plan.*
A plan which shows the frequencies to be used in particular areas or by particular countries, without specifying the stations to which the frequencies are to be assigned.
- 4 § 4. *Family of Frequencies in the Aeronautical Mobile Service.*
A group of frequencies selected from different aeronautical mobile bands in such a way as to permit communication, at any time and over any distance, between aircraft in flight and appropriate aeronautical stations.
- 5 § 5. *Appropriate Band.*
A frequency band allocated to the service concerned in the Atlantic City Table of Frequency Allocations.

6 § 6. *In-Band*

Within an appropriate band.

7 § 7. *Out-of-band.*

Not within an appropriate band.

8 § 8. *Change in Frequency Usage.*

The bringing into use of an additional assignment, or a change of frequency or other basic characteristic of an existing assignment.

9 § 9. *I.T.U. List of Frequencies.*

The frequency list published by the International Telecommunication Union in accordance with 317 of the Cairo General Radio Regulations.

10 § 10. *African Area.*

The African Area includes that part of Region 1 lying to the South of the parallel 30° North. It also includes that part of the territories of Irak and Saudi Arabia situated to the North of that parallel.

ARTICLE 2

**Provisions for Frequencies between 14 kc/s and 3950 kc/s
(4000 kc/s Region 2)**

- 11 § 1. (1)** The transfer of assignments into the appropriate Atlantic City bands for frequencies between 14 kc/s and 3950 kc/s (4000 kc/s Region 2) shall, except for the exclusive aeronautical mobile bands mentioned below, be in accordance with the new International Frequency List.
- 12 (2)** The final arrangement of frequency usage for those parts of the Atlantic City Table of Frequency Allocations corresponding to the exclusive bands allocated to the Aeronautical Mobile Service, namely 2850-3155 kc/s, 3400-3500 kc/s and, in Region 1, 3900-3950 kc/s, shall be determined by the plans appearing in Annexes 8 and 9.
- 13 § 2.** The lists and plans for this band shall be brought into use in conformity with the schedule contained in Chapter VI.

ARTICLE 3

**Provisions for Frequencies between 3950 kc/s
(4000 kc/s Region 2) and 27 500 kc/s**

SECTION I. — *Fixed, Land Mobile and Broadcasting Services.*

- 14** § 1. The final arrangement of frequency usage for those parts of the Atlantic City Table of Frequency Allocations corresponding to Fixed, Land Mobile and Broadcasting Services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s, shall be determined by plans, as far as the High Frequency Broadcasting Service is concerned, and by the future International Frequency List as far as the Fixed, Land Mobile and Tropical Zone Broadcasting Services are concerned. In principle, these plans and this List shall enter into force at the same time as the Atlantic City Table of Frequency Allocations for the other services in this part of the spectrum. The basis and procedures for the preparation and acceptance of these plans and this List are outlined in :

- Articles 10 and 27 for the Fixed, Land Mobile and Tropical Zone Broadcasting Services, and,
- Articles 11 and 28 for the High Frequency Broadcasting Service.

- 15** § 2. In the meantime, and as an interim measure, Administrations will avoid, as far as they find it practicable, establishing new assignments for these services in the bands allocated at Atlantic City to other services and will make efforts to eliminate, by voluntary transfers, the existing assignments for these services situated in bands allocated at Atlantic City to other services. The interim procedure to be used for these services is outlined in Chapter IV.

SECTION II. — *Maritime Mobile Service in its Exclusive Bands.*

- 16** § 3. The final arrangement of frequency usage for those parts of the Atlantic City Table of Frequency Allocations corresponding

to the exclusive bands allocated to the Maritime Mobile Service between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s shall be determined for coast stations by the plans appearing in Annexes 5 and 6 and, for ship stations, by Appendix 10 to the Radio Regulations and Annex 7 to this Agreement. In principle these plans and the Appendix and Annex shall enter into force at the same time as the Atlantic City Table of Frequency Allocations for the other services in this part of the spectrum. The procedures for transferring assignments in this service into their appropriate bands are outlined in Articles 12, 14, 16 and 17.

- 17 § 4. In the meantime, and as an interim measure, Administrations will avoid, as far as they find it practicable, establishing new assignments for the Maritime Mobile Service in the bands allocated at Atlantic City to other services, and will make efforts to eliminate, by voluntary transfers, their existing assignments for this service situated in bands allocated at Atlantic City to other services.

SECTION III. — *Aeronautical Mobile Service in its Exclusive Bands.*

- 18 § 5. The final arrangement of frequency usage for those parts of the Atlantic City Table of Frequency Allocations corresponding to the exclusive bands allocated to the Aeronautical Mobile Service, between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s shall be determined by the plans appearing in Annexes 8 and 9. In principle, these plans shall enter into force at the same time as the Atlantic City Table of Frequency Allocations for the other services in this part of the spectrum. The procedures for transferring assignments in this service into their appropriate bands are outlined in Articles 12, 15, 16 and 17.
- 19 § 6. In the meantime, and as an interim measure, Administrations will avoid, as far as they find it practicable, establishing new assignments for the Aeronautical Mobile Service in the bands allocated at Atlantic City to other services, and will make efforts to eliminate, by voluntary transfers, their existing assignments for this service situated in bands allocated at Atlantic City to other services.

SECTION IV. — *Maritime and Aeronautical Mobile Services in Bands shared with other Services.*

- 20 § 7. Maritime and Aeronautical Mobile Services operating in shared bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s will follow the procedure which is prescribed for the Fixed Service in that part of the spectrum. The sharing pattern for the aeronautical mobile OR channels as shown in Annex 9 will, however, be preserved.

CHAPTER II

LISTS AND PLANS ADOPTED

ARTICLE 4

The New International Frequency List for the Band 14-150 kc/s

- 21 For the band 14-150 kc/s the new International Frequency List appearing in Annex 1 is adopted.

ARTICLE 5

The New International Frequency List for Region 1 for the Bands 150-255 kc/s (African Area), 255-415 kc/s, 415-1605 kc/s (African Area), 1605-2850 kc/s, 3155-3400 kc/s and 3500-3900 kc/s

SECTION I. — Adoption of the List.

- 22 § 1. For the bands 150-255 kc/s (African Area), 255-415 kc/s, 415-1605 kc/s (African Area), 1605-2850 kc/s, 3155-3400 kc/s and 3500-3900 kc/s, in Region 1, the new International Frequency List appearing in Annex 2 is adopted.

SECTION II. — Power and Field Strength.

- 23 § 2. (1) The power indicated in this List is the "mean power" as defined in 63 of the Radio Regulations and is the maximum power that may be used.
- 24 (2) Where ranges are indicated in the List, the maximum field strengths that may be used at those ranges under normal conditions are those given in 26 and 28.

- 25 § 3. The powers and field strengths indicated are those which are capable of giving good working conditions by day, but it is recommended that less power be used at night except in case of necessity.
- 26 § 4. (1) In the case of aeronautical beacons, the List is based on the following field strengths by day, at the indicated service range :
- 70 microvolts per metre for beacons North of latitude 30° N,
120 microvolts per metre for beacons South of latitude 30° N.
- 27 (2) The assignment of frequencies to the aeronautical radio-beacons is based upon a protection against interference of at least 10 db for each beacon throughout its service area.
- 28 (3) In the case of maritime beacons, the range given assumes the following field strengths by day at that range ;
- 50 microvolts per metre for beacons North of latitude 43° N,
75 microvolts per metre for beacons between latitude 30° N and 43° N,
100 microvolts per metre for beacons South of latitude 30° N.
- 29 (4) The power of any maritime radiobeacon in the band 405-415 kc/s shall not exceed 10 watts, in accordance with 135 of the Radio Regulations.
- 30 § 5. The power of ship stations using frequencies in the band 1605-2850 kc/s shall not exceed 100 watts.
- 31 § 6. Stations which use frequencies in the band 1625-1670 kc/s allocated for low-power telephony services, shall, in principle, employ a power which is as low as possible. Such power shall not exceed 20 watts.

SECTION III. — *Use of Frequencies.*

- 32 § 7. The assignment of frequencies to maritime radiobeacons is based on a separation of 2.3 kc/s between adjacent channels used for Class A2 emissions.
- 33 § 8. The frequency 314.5 kc/s, is, in general, reserved for tests and experiments, which must not cause harmful interference with transmissions from the maritime radiobeacons indicated in the List.
- 34 § 9. (1) The frequency 348 kc/s may be used as a short-range calling frequency for aircraft, supplementary to the general calling frequency of 333 kc/s.
- 35 (2) The frequency 399 kc/s may be used by aircraft as a supplementary frequency to 333 kc/s, for communication with aeronautical stations of certain countries.
- 36 (3) The bands :
329-331 kc/s 335-337 kc/s 346-350 kc/s 397.5-401 kc/s
are used by aeronautical stations keeping watch on the frequencies mentioned in 34 and 35.
- 37 (4) In the band 325-405 kc/s, the Aeronautical Radionavigation Service has priority, except in the case of the frequencies and bands mentioned in 34, 35 and 36.
- 38 § 10. The frequencies :
259.5 kc/s 283.5 kc/s 402 kc/s 404 kc/s 404.5 kc/s
are assigned to eight groups of stations in the European Area, for meteorological broadcasts to aircraft in flight.
- 39 § 11. In the band 405-415 kc/s, no frequency is assigned to coast stations, in order to protect the frequency 410 kc/s which is designated by the Radio Regulations for the Maritime Radionavigation Service (radio direction-finding).
- 40 § 12. (1) The bands :
1605-2850 kc/s 3155-3400 kc/s 3500-3800 kc/s
allocated to the Maritime Mobile Service, sharing with other services, in accordance with the provisions of the Radio Regulations, are sub-divided as follows :

1605-1625 kc/s	Telegraphy exclusively.
1625-1670 kc/s	Low-power telephony.
1670-1950 kc/s	Coast stations.
1950-2045 kc/s	Ship stations working to coast stations.
2065-2170 kc/s	Ship stations working to coast stations.
2170-2194 kc/s	Guard band for the distress frequency 2182 kc/s.
2194-2440 kc/s	Intership working.
2440-2578 kc/s	Ship stations working to coast stations.
2578-2850 kc/s	Coast stations.
3155-3340 kc/s	Ship stations working to coast stations.
3340-3400 kc/s	Intership working.
3500-3600 kc/s	Intership working.
3600-3800 kc/s	Coast stations.

- 41 (2) As far as possible, the frequencies assigned to the stations of the Maritime Mobile Service are spaced by :

- 7 kc/s when two adjacent frequencies are used for telephony,
- 3 kc/s when two adjacent frequencies are used for telegraphy,
- 5 kc/s when one frequency is used for telephony and the adjacent frequency is used for telegraphy.

However, in the case of the intership bands, the spacing is reduced to 5 kc/s for adjacent frequencies used for telephony.

- 42 (3) The band 2170-2194 kc/s is provided as a guard band for the distress and calling frequency for the Maritime Mobile Service (telephony) in accordance with 148 of the Radio Regulations. Between 2170 kc/s and 2194 kc/s all transmissions are forbidden, apart from the authorized transmissions on the frequency 2182 kc/s (815 and 816 of the Radio Regulations).

- 43 § 13. In accordance with 144 and 153 of the Radio Regulations, frequencies in the band 1605-2850 kc/s are assigned to stations of services other than the Maritime Mobile Service, in such a way as to protect all services from mutual harmful interference, having special regard to the difficulties of operation of the Maritime Mobile Service.
- 44 § 14. Account is taken of the continued operation, in accordance with the Final Acts of the Special Administrative Conference for the North-East Atlantic (Loran), Geneva (1949), of the North-East Atlantic Standard Loran Chain in the band 1900-2000 kc/s.
- 45 § 15. When ship stations, in exceptional circumstances, use frequencies in the bands allocated in the List to coast stations, those ship stations must observe the frequency tolerances for coast stations prescribed in the Radio Regulations.
- 46 § 16. When a ship station of a country wishes to communicate with a coast station in another country, it may, by agreement with that coast station, use one of its own frequencies (ship to coast), even if the use of such frequency in the area where the ship is located is not envisaged in the List (column 13 : Remarks).
- 47 § 17. Although allocations to the Amateur Service are not shown in the List, this does not affect in any way the right of Administrations to make such allocations in accordance with the Radio Regulations.

SECTION IV. — *Characteristics of Maritime Radiobeacons.*

- 48 § 18. (1) The List shows the range, frequencies of emission, modulation frequencies and times of transmission for the maritime radiobeacons.
- 49 (2) The schedules of transmission in foggy and in clear weather are indicated ; nevertheless, the schedules of transmission indicated for foggy weather may be used in clear weather.

- 50 § 19. The depth of modulation of maritime radiobeacons has been assumed to be at least 70%.

ARTICLE 6

The New International Frequency List for Region 2 for the Bands 150-2850 kc/s, 3155-3400 kc/s and 3500-4000 kc/s

SECTION I. — *Bands 150-535 kc/s, 1605-2850 kc/s, 3155-3400 kc/s and 3500-4000 kc/s.*

- 51 § 1. For these bands, in Region 2, the new International Frequency List, appearing in Annex 3, Section I, is adopted.
- 52 § 2. This List has been prepared in accordance with the Radio Regulations and has taken into account Resolution No. 1 of the I.T.U. Conference for Region 2 (Washington, 1949).
- 53 § 3. (1) In the band 1800-2000 kc/s, the International Frequency Registration Board (I.F.R.B.) shall not be called upon to intervene in cases of interference between amateur stations on the one hand and stations of another type of service on the other hand. Such cases of interference shall be resolved by appropriate bilateral or multilateral arrangements.
- 54 (2) The new International Frequency List for Region 2 for the band 3500-4000 kc/s has been prepared in accordance with the Radio Regulations and has taken into account Resolution No. 156 (amended) of the Administrative Council. In this band, the I.F.R.B. shall not be called upon to intervene in cases of interference between amateur stations on the one hand and stations of another type of service on the other hand. Such cases of interference shall be resolved by appropriate bilateral or multilateral arrangements.
- 55 § 4. Column 8 of the List indicates peak power in accordance with 60 of the Radio Regulations in the case of assignments to stations of the United States of America and the Territories of the United States of America, except where otherwise noted in the List ; it indicates mean power of the transmitter for all other Administrations, except where otherwise noted in the List.

- 56 § 5. When a frequency has been assigned to a Tropical Zone broadcasting station for daytime operation (HJ), this frequency may be used with reduced power for night operation provided that no harmful interference is caused to the service area of stations authorized to operate at night.
- 57 § 6. Before utilization of Tropical Zone broadcasting stations, the Administrations responsible for such stations will conclude special arrangements with the interested Administrations in Region 2 within and outside the Tropical Zone, whenever there is a possibility of harmful interference to the Broadcasting Service or the other services involved.

SECTION II. — *Band 535-1605 kc/s.*

- 58 § 7. For this band, in Region 2, the new International Frequency List appearing in Annex 3, Section II, has been prepared for information.
- 59 § 8. This List has been prepared in accordance with the Radio Regulations and has taken into account Resolution No. 1 of the I.T.U. Conference for Region 2 (Washington, 1949). It represents a communication to the I.F.R.B. and illustrates the existing situation. Attention is invited to the fact that in certain cases no sub-regional agreements are in force. Administrations will acquaint the I.F.R.B. with the details of any future agreements made in accordance with 332 of the Radio Regulations. In the meantime the I.F.R.B. will not be called upon to consider the question of interference between assignments in this band.
- 60 § 9. Bandwidths shall be computed either according to any existing sub-regional arrangements or in accordance with the example given in Appendix 5 to the Radio Regulations.
- 61 § 10. Column 8 of the List indicates carrier power for all assignments.

ARTICLE 7

**The New International Frequency List for Region 3
for the Bands 150-2850 kc/s, 3155-3400 kc/s and 3500-3950 kc/s**

- 62 § 1. For these bands, in Region 3, the new International Frequency List appearing in Annex 4 is adopted.

- 63 § 2. The power indicated in this List is the “ mean power ” as defined in 63 of the Radio Regulations.
- 64 § 3. In addition to the specific frequencies prescribed by the Radio Regulations for common use in certain services, the following frequencies and guard bands are taken into account in this List for the purposes indicated :

2091 kc/s Recommended calling frequency for ship radio-telegraph stations operating in the bands between 1605 kc/s and 2850 kc/s. It is recommended that the band 2088.5-2093.5 kc/s be reserved exclusively for calling (telegraphy only).

2182 kc/s World-wide distress and calling frequency for Maritime Mobile Service (radiotelephony) for which the guard band 2170-2194 kc/s is adopted.

2638 kc/s Recommended intership radiotelephony working frequency, for which the guard band 2634-2642 kc/s is recommended.

3805 kc/s Aeronautical distress frequency in Afghanistan, Burma, Ceylon, India and Pakistan only.

ARTICLE 8

Plans for Coast Stations of the Maritime Mobile Service in the Exclusive Bands between 4000 kc/s and 27 500 kc/s

SECTION I. — *Frequency Allotment Plan for the Radiotelephone Service.*

- 65 § 1. (1) For the Maritime Mobile Radiotelephone Service (coast stations), the Frequency Allotment Plan appearing in Part A of Annex 5 is adopted.

- 66 (2) Part B of Annex 5 contains a Station Assignment Plan for this service, which is published for information purposes.
- 67 § 2. The power indicated in these plans is the “ mean power ” as defined in 63 of the Radio Regulations.
- 68 § 3. It is recommended that when countries bring additional frequencies into use the assistance of the I.F.R.B. should be sought in choosing specific frequencies so as to avoid harmful interference to assignments which are in conformity with the Frequency Allotment Plan appearing in Sections I and II of Part A of Annex 5.

SECTION II. — *Frequency Assignment Plan for the Radiotelegraph Service.*

- 69 § 4. For coast radiotelegraph stations operating in the exclusive bands between 4000 kc/s and 27500 kc/s the Frequency Assignment Plan appearing in Annex 6 is adopted.
- 70 § 5. (1) Subject to the exceptional provisions of 72, 73 and 74, coast radiotelegraph stations operating between 4000 kc/s and 27 500 kc/s in the maritime mobile telegraph exclusive bands, shall at no time use an antenna input power in excess of the figures given below :

Band	Power limit
4 Mc/s	5 kW
6 Mc/s	5 kW
8 Mc/s	10 kW
12 Mc/s	15 kW
16 Mc/s	15 kW
22 Mc/s	15 kW

- 71 (2) In order to avoid undue co-channel or adjacent channel interference, the powers specified for each station in this Frequency Assignment Plan are the maximum antenna input powers to be used by the stations listed on the various frequency channels. Any

increase in these specified powers, within the limits quoted in 70, shall be subject to the procedure laid down in Chapter VII.

72 (3) Exceptionally, after this Frequency Assignment Plan has come into force, an increase in the power of any station above the limits specified in 70 may be made only :

73 a) in accordance with 346 of the Radio Regulations, and

74 b) after the countries whose actual transmission on assignments in this Plan are likely to be adversely affected by the change have been consulted by the I.F.R.B. in accordance with the procedures detailed in Section III of Article 11 of the Radio Regulations.

75 § 6. In order to reduce adjacent channel interference, coast radiotelegraph stations operating in the maritime mobile exclusive bands between 4000 kc/s and 27 500 kc/s shall not use Class A2 emission.

76 § 7. In accordance with the provisions of 372 of the Radio Regulations, unnecessary continuous emissions (such as the unduly prolonged emission of call slips) shall be avoided in the Maritime Mobile Coast Radiotelegraph Service.

77 § 8. Questions of harmful interference arising from operations on the assignments contained in this Frequency Assignment Plan, shall be resolved by bilateral or multilateral negotiations, as appropriate, between the interested Administrations. The I.F.R.B. shall be consulted, as necessary, in accordance with Article 14 of the Radio Regulations, and shall be notified of any frequency changes involved.

78 § 9. It is recommended that countries which share a channel in one of the exclusive bands afford special consideration to the countries among them which have no other channel in the same band and endeavour to use their primary channel to the greatest extent possible, in order to permit the latter countries to satisfy their minimum communication requirements.

- 79 § 10. (1) It is recommended that up to the time of bringing this Plan into force, additional assignments which are required by Administrations for coast radiotelegraph stations should be the subject of negotiations and agreements with the Administrations whose actual transmissions on assignments in this Plan may be affected by these additional assignments, such negotiations to be carried out in collaboration with the I.F.R.B.
- 80 (2) In the absence of agreement with the Administrations whose transmissions may be affected, such additional assignments should be notified to the I.F.R.B., for treatment under Article 11 of the Radio Regulations after the Frequency Assignment Plan has come into force.

ARTICLE 9

Aeronautical Mobile Service

- 81 § 1. For the Aeronautical Mobile R and OR Services, the allotment plans appearing in Annexes 8 and 9 are adopted.
- 82 § 2. (1) Since these plans have been prepared on the basis of the plans worked out by the International Aeronautical Administrative Radio Conference (I.A.A.R.C.), and published in the Final Acts of that Conference, Administrations are advised, for a better understanding of the plans themselves and the way in which they have been prepared, to refer to the appropriate passages in the Final Acts of the I.A.A.R.C. and especially :

Part I, Sections I and II and Recommendation No. 13 in Section III.

Part III, Sections I to V inclusive.

Maps and transparencies (for the R Plan).

Final report of the 1st Session of the I.A.A.R.C., Document Aer 193 (for the OR Plan).

- 83 (2) The attention of Administrations is drawn to the fact that the terminology used in this Agreement differs slightly from that used by the I.A.A.R.C. and in particular that, in place of the terminology used in the table of corresponding terms in paragraph 4 a) of Part I, Section I of the Final Acts of the I.A.A.R.C., the following terms have been used in this Agreement :

Frequency distribution to:	French	English	Spanish
Services	Attribution (attribuer)	Allocation (to allocate)	Distribución (distribuir)
Areas	Allotissement (allotir)	Allotment (to allot)	Distribución (distribuir)
Stations	Assignment (assigner)	Assignment (to assign)	Asignación (asignar)

- 84 § 3. Administrations agree to conform to the I.A.A.R.C. technical principles in the use of Aeronautical Mobile Service frequencies.
- 85 § 4. The Aeronautical Mobile R and OR Services may utilize on a secondary basis any of the frequencies allocated to these services respectively, provided that :
- 86 a) no harmful interference is caused to the services using them in accordance with the provisions in the allotment plans ;
- 87 b) the provisions of Article 3 of the Radio Regulations and the appropriate provisions of this Agreement are respected.

CHAPTER III

**PREPARATION OF LISTS AND PLANS FOR FIXED,
LAND MOBILE AND BROADCASTING SERVICES IN THE BANDS
BETWEEN 3950 kc/s (4000 kc/s REGION 2) AND 27 500 kc/s**

ARTICLE 10

**Preparation of the Draft International Frequency List for Fixed,
Land Mobile and Tropical Zone Broadcasting Services**

- 88 § 1. (1) The I.F.R.B. shall begin, as soon as practicable, to undertake studies with a view to the preparation of a Draft International Frequency List for the Fixed, Land Mobile and Tropical Zone Broadcasting Services.
- 89 (2) In determining the most equitable method of drawing up the Draft International Frequency List, the I.F.R.B. shall give careful consideration to incorporating where practicable the methods submitted to, or prepared at, the E.A.R.C., or subsequently submitted by Administrations.
- 90 § 2. During the final adjustment period, as defined in Chapter V, Article 16, there may be some unsatisfied actual new requirements, particularly for countries underdeveloped in the field of radio communications.
- 91 § 3. As soon as practicable, the I.F.R.B. shall begin the preparation of the Draft International Frequency List. When complete, this List will have taken into account :
- 92 a) the Radio Frequency Record for the appropriate parts of the spectrum,
- 93 b) the unsatisfied actual new requirements at the end of the final adjustment period.

- 94 § 4. The Draft International Frequency List shall incorporate the assignments contained in the appropriate parts of the Radio Frequency Record, adjusted where necessary to improve the efficiency of exploitation of the spectrum and thus permit the accommodation of new assignments. In addition, the Draft List will reflect improvements in technical and operating standards.

ARTICLE 11

Preparation of Draft Plans for the High Frequency Broadcasting Service

- 95 § 1. The I.F.R.B. shall begin, after the signing of this Agreement, the preparatory work necessary for the drawing up of draft plans for the High Frequency Broadcasting Service, taking into consideration :
- 96 a) the Agreement and Basic Plan of Mexico City ;
- 97 b) the work of the Technical Plan Committee, Paris, and of the Florence/Rapallo Conference ;
- 98 c) up-to-date requirements submitted by Administrations. In presenting such requirements Administrations shall bear in mind the fact that, at peak hours especially, the number of assignments provided for in the Basic Plan cannot be appreciably increased without there being a risk of compromising its technical value.
- 99 § 2. The information referred to in 98 should be sent by Administrations so as to reach the I.F.R.B. not later than 1 July 1952. This information shall be circulated to Administrations as early as possible. In the case of Administrations which have not sent the information required by the date specified, the I.F.R.B. shall assume that the requirements of such Administrations are those contained in the Mexico City Basic Plan.

- 100** § 3. (1) The I.F.R.B. shall adjust the Mexico City Basic Plan and the draft plans prepared by the Technical Plan Committee, Paris, and prepare such additional draft plans as are considered necessary for the remaining seasons and phases of solar activity.
- 101** (2) The I.F.R.B. shall apply the technical principles and standards contained in the Mexico City Agreement and Plan. However, the I.F.R.B. may make changes in those standards to the extent necessary to enable it to produce a plan likely to be generally acceptable.
- 102** (3) For peak hours, especially during lower solar activity periods when the lower bands are likely to be more congested, the Administrations, in order that the I.F.R.B. may evolve acceptable plans, shall be asked to reduce their services in the same ratio as the relative reduction in spectrum space due to the solar changes. The reductions required for each zone and each sunspot index at the various times of day shall be communicated by the I.F.R.B. to all Administrations for their consideration and comment.

CHAPTER IV

**PROCEDURE FOR THE TRANSFER OF ASSIGNMENTS
INTO THEIR APPROPRIATE BANDS
BETWEEN 3950 kc/s (4000 kc/s REGION 2) AND 27 500 kc/s**

ARTICLE 12

Interim Procedure Applicable to All Services

SECTION I. — *Introduction.*

- 103** § 1. (1) During the interim period between the date of signature of this Agreement and the commencement of the final adjustment period, assignments should be gradually moved into the appropriate bands of the Atlantic City Table of Frequency Allocations for all services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.
- 104** (2) Administrations should make every endeavour to have all assignments, with the exception of those which are unlikely to cause harmful interference, in the appropriate bands at the earliest date practicable.
- 105** § 2. The following interim procedure will apply only until such time as Articles 10 and 11 of the Radio Regulations are brought fully into force for the bands in question.

SECTION II. — *Transfer of Assignments which are Outside the Bands Allocated to the Service Concerned in the Atlantic City Table of Frequency Allocations.*

- 106** § 3. Transfer of out-of-band assignments into the appropriate bands of the Atlantic City Table of Frequency Allocations should be made in accordance with the following procedures :

- 107 a) Each Administration should first examine its out-of-band frequency assignments and endeavour to interchange assignments between its own services, when it is possible to do so, in order that the assignments conform to the Atlantic City Table of Frequency Allocations. In such cases of interchange, due care must be taken to avoid harmful interference to the services of other Administrations.
- 108 b) If an Administration cannot transfer all of its out-of-band assignments in accordance with the procedure outlined in 107, it may collaborate with other Administrations to arrange a suitable interchange of their respective out-of-band assignments. In this case also due care must be taken to avoid harmful interference to the services of other Administrations.
- 109 c) Each Administration, when endeavouring to transfer its out-of-band assignments to in-band frequencies may, in addition to the above, follow the customary procedure of requesting the assistance of other Administrations in monitoring a suitable frequency band in the area of reception.
- 110 d) An Administration may request the I.F.R.B. to study and to make proposals for the transfer of out-of-band assignments, particularly in those cases in which the Administration concerned has not been able to carry out transfers without causing harmful interference to transmissions on existing assignments. Such proposals should take into account the practical and technical possibilities in each individual case.
- 111 e) An Administration may request other Administrations to make such slight adjustments to the frequencies employed by their services as would facilitate the transfer of out-of-band assignments to in-band frequencies.
- 112 f) In order to reduce the number of frequencies used, and the spectrum space occupied, and in order to assist, by these means, those Administrations who experience

difficulty in carrying out the objectives of the interim period, in particular, countries underdeveloped in the radio field, all Administrations should endeavour to readjust their operations by the adoption of improved techniques, by accommodating as many assignments as feasible on the same frequency, by the limitation of the hours of operation, by geographical sharing and by all other practicable methods. Administrations should inform the I.F.R.B. of the frequencies they are able to free by the adoption of this procedure.

- 113 g) If, as a result of its studies of a particular problem, the I.F.R.B. finds that an interchange of assignments or that an adjustment of frequencies might provide a solution, and if such an interchange or adjustment is accepted by the Administration or Administrations directly concerned, it will be recorded in the Master Radio Frequency Record.
- 114 h) Administrations should collaborate with each other and the I.F.R.B. to facilitate the solution of problems associated with the transfer of out-of-band assignments into their appropriate bands. In particular, whenever it proves necessary for studying the possibility of sharing a frequency, the I.F.R.B. may request Administrations to supply information on all the frequencies used for each circuit, on the operating conditions of the circuit, and on other related matters.
- 115 i) If a transferred assignment suffers harmful interference which cannot be cleared, and the Administration concerned finds it necessary to revert to the former assignment, it should do so within six months of the transfer. In such a case the original date of putting into use of the assignment shall be retained (see 250).

SECTION III. — *Establishment of New Assignments in the Appropriate Atlantic City Bands.*

- 116 § 4. When Administrations find it essential to establish new

assignments, the procedures specified in 106 to 115 should be followed so far as they are applicable.

- 117** § 5. Administrations should notify exact particulars of these new assignments in accordance with the provisions of Article 32 for publication in the Radio Frequency Record.

SECTION IV. — *Procedure in Cases of Harmful Interference.*

- 118** § 6. Administrations should exercise the utmost goodwill and mutual assistance in the application of the provisions of Article 44 of the Convention and of Article 14 of the Radio Regulations to the settlement of problems of interference during the interim period.

ARTICLE 13

Progress Reviews and Reports

- 119** § 1. The I.F.R.B., in making its reports to the Members of the Union, shall include a statement on all progress made in carrying out the provisions of this Agreement and in particular :
- 120** a) the progress made during the interim period in transferring out-of-band assignments into appropriate bands ;
- 121** b) the state of preparation of draft plans for High Frequency Broadcasting ;
- 122** c) the observations submitted by the Administrations (copies to be attached to the reports).
- 123** § 2. The Administrative Council is invited, at its session in 1953, to pay very special attention to the state of progress as regards the draft plans for High Frequency Broadcasting and to recommend to Administrations the necessary action the Council considers appropriate.

ARTICLE 14

**Special Procedure Applicable to the Maritime Mobile Service
in its Exclusive Bands**

SECTION I. — *Introduction.*

- 124 § 1. During the interim period until the commencement of the final adjustment period, the ship bands should be cleared of all out-of-band assignments in accordance with the programme detailed in Sections II to V inclusive of this Article. This will involve frequency changes for some coast stations during this period. Such stations should, as far as possible, move directly to their assigned frequencies in accordance with the plans appearing in Annexes 5 and 6.
- 125 § 2. Administrations should make every endeavour to comply with the programme envisaged in this Article in order to minimize the risk of harmful interference to ship stations during the interim period.
- 126 § 3. In carrying out this programme it is essential, because of the necessity for maintaining harmonic relationships between frequency assignments in the 4, 6, 8, 12 and 16 Mc/s bands allocated to ship radiotelegraph stations, that the related assignments to each ship station in all these bands be changed over simultaneously and that these changes should be completed before the commencement of the final adjustment period.
- 127 § 4. In order to ensure satisfactory operation within the Atlantic City maritime mobile bands, 85% of the ship stations should be fitted with equipment capable of complying with the Radio Regulations.

SECTION II. — *First Stage. Ship Radiotelegraph Calling Bands.*

- 128 § 5. Administrations will make every endeavour to clear the ship radiotelegraph calling bands as soon as possible, and to bring these bands into use within eighteen months of the date of signature of this Agreement.

- 129 § 6. In accordance with 775 of the Radio Regulations the ship radiotelegraph calling bands are as follows :

4177	—	4187	kc/s
6265.5	—	6280.5	kc/s
8354	—	8374	kc/s
12 531	—	12 561	kc/s
16 708	—	16 748	kc/s
22 220	—	22 270	kc/s

- 130 § 7. A report on this question will be made by the I.F.R.B. to Members of the Union in advance of the Administrative Council Session in 1953, so that the Council may review the position and, if progress is satisfactory, recommend a date on which ship stations will commence to move into the ship radiotelegraph calling bands, provided that they are so equipped as to operate satisfactorily in these bands (see 127).

- 131 § 8. Administrations will endeavour to complete the movement into the calling bands within two weeks of the commencement date.

SECTION III. — *Second Stage. Cargo Ship Radiotelegraph Bands.*

- 132 § 9. Administrations should endeavour to complete the clearance of the cargo ship radiotelegraph bands by moving all out-of-band assignments within six months of the date on which ship stations have commenced to move into the calling bands.

- 133 § 10. In accordance with 793 of the Radio Regulations, the cargo ship radiotelegraph bands are as follows :

4187	—	4238	kc/s
6280.5	—	6357	kc/s
8374	—	8476	kc/s
12 561	—	12 714	kc/s
16 748	—	16 952	kc/s
22 270	—	22 400	kc/s

- 134** § 11. Towards the end of the period specified in 132, the I.F.R.B. should make a report to Members of the Union indicating the progress made in clearing these bands. If progress is satisfactory, the I.F.R.B. will recommend a date on which cargo ships will commence to take up their assigned frequencies in the cargo ship radiotelegraph bands, provided that they are so equipped as to operate satisfactorily in these bands (see 127).
- 135** § 12. Administrations should endeavour to complete this movement as quickly as possible since this will assist the clearance of the passenger ship radiotelegraph and the ship radiotelephone bands.

SECTION IV. — *Third Stage. Passenger Ship Radiotelegraph Bands.*

- 136** § 13. Administrations should endeavour to complete the clearance of passenger ship radiotelegraph bands by moving all out-of-band assignments within six months of the date on which cargo ship stations have commenced to move into the cargo ship radiotelegraph bands.
- 137** § 14. In accordance with 788 of the Radio Regulations the passenger ship radiotelegraph bands are as follows :

4133	—	4177	kc/s
6200	—	6265.5	kc/s
8265	—	8354	kc/s
12 400	—	12 531	kc/s
16 530	—	16 708	kc/s
22 070	—	22 220	kc/s

- 138** § 15. Towards the end of the period specified in 136, the I.F.R.B. should make a report to Members of the Union indicating the progress made in the clearance of these bands. If the progress is satisfactory, the I.F.R.B. will recommend a date on which passenger ship stations will commence to take up their assigned frequencies in the passenger ship radiotelegraph bands, provided that they are so equipped as to operate satisfactorily in these bands (see 127).

- 139 § 16. Administrations should endeavour to complete the movement as quickly as possible since this will assist the clearance of the ship radiotelephone bands.

SECTION V. — *Fourth Stage. Ship Radiotelephone Bands.*

- 140 § 17. Administrations should endeavour to complete the clearance of the ship radiotelephone bands by moving all out-of-band assignments within six months of the date on which passenger ship stations have commenced to move into the passenger ship radiotelegraph bands.
- 141 § 18. In accordance with 264 of the Radio Regulations the ship radiotelephone bands are as follows :

4063	—	4133 kc/s
8195	—	8265 kc/s
12 330	—	12 400 kc/s
16 460	—	16 530 kc/s
22 000	—	22 070 kc/s

- 142 § 19. Towards the end of the period specified in 140, the I.F.R.B. should make a report to Members of the Union indicating the progress made in the clearance of these bands. If the progress is satisfactory, the I.F.R.B. will recommend a date on which ship stations will commence to take up their assigned frequencies in the ship radiotelephone bands, provided that they are so equipped as to operate satisfactorily in these bands (see 127).

SECTION VI. — *Fifth Stage. Coast Radiotelephone Bands.*

- 143 § 20. Administrations should endeavour to complete the clearance of the coast radiotelephone bands by moving all out-of-band assignments as soon as possible after the commencement of the Fourth Stage.

- 144** § 21. In accordance with 265 of the Radio Regulations the coast radiotelephone bands are as follows :

4368	—	4438 kc/s
8745	—	8815 kc/s
13 130	—	13 200 kc/s
17 290	—	17 360 kc/s
22 650	—	22 720 kc/s

- 145** § 22. During the interim period until the commencement of the final adjustment period, coast radiotelephone stations should be moved, whenever possible, to their planned assignments in accordance with the Allotment Plan for Coast Radiotelephone Stations.

SECTION VII. — *Coast Radiotelegraph Bands*

- 146** § 23. During the interim period until the commencement of the final adjustment period, coast radiotelegraph stations should be moved, whenever possible, to their planned assignments in accordance with the Assignment Plan for Coast Radiotelegraph Stations.

SECTION VIII. — *Protection of Maritime Mobile Service.*

- 147** § 24. The frequencies used at present by the Maritime Mobile Service should continue to be protected against harmful interference until such time as the operations on these frequencies are transferred to new frequencies in the exclusive maritime mobile bands of the Atlantic City Table of Frequency Allocations.

ARTICLE 15

**Special Procedure Applicable to the Aeronautical Mobile Service
in its Exclusive Bands**

SECTION I. — *Aeronautical Mobile R Service.*

- 148** § 1. The frequencies for the Aeronautical Mobile R Service are allotted to areas of air operations (Major World Air Route Areas, or MWARAs and Regional and Domestic Air Route Areas, or

RDARAs) by families of frequencies: In principle, transfer of assignments into the appropriate bands will be made on the basis of these areas.

- 149 § 2. The frequencies of the Aeronautical Mobile R Service should be brought into use within each area by complete families, though there may be cases where individual frequencies can be brought into use. In all cases coordination should be effected between the Administrations concerned.
- 150 § 3. In order to limit the number of changes in equipment aboard aircraft, and to maintain the operational flexibility of the Plan, the exclusive frequencies of the Aeronautical Mobile R Service bands should be brought into use in the specific areas of allotment and for the specific purposes laid down in the Plan appearing in Annex 8.
- 151 § 4. Administrations should arrange early clearance and the bringing into use of the world-wide common frequencies of 3023.5 kc/s and 5680 kc/s for A3 emissions.
- 152 § 5. The details for bringing the Aeronautical Mobile R Service bands into use should be arranged by direct consultation between the Administrations concerned and the I.F.R.B. Since the International Civil Aviation Organization (I.C.A.O.) coordinates aeronautical R communications with air operations for a large part of the world, this organization should be consulted in appropriate cases.

SECTION II. — *Aeronautical Mobile OR Service.*

- 153 § 6. The frequencies for the Aeronautical Mobile OR Service are allotted on the basis of countries, areas and places, and, as far as practicable, they should be brought into use on the same basis.

SECTION III. — *Protection of Aeronautical Mobile Service.*

- 154 § 7. The frequencies used at present by the Aeronautical Mobile Service should continue to be protected against harmful interference

until such time as the operations on these frequencies are transferred to new frequencies in the exclusive Aeronautical Mobile Service bands of the Atlantic City Table.

CHAPTER V

**FINAL ADJUSTMENT OF OUT-OF-BAND ASSIGNMENTS
INTO THEIR APPROPRIATE BANDS BETWEEN
3950 kc/s (4000 kc/s REGION 2) AND 27 500 kc/s**

ARTICLE 16

Procedure Applicable to All Services

- 155** § 1. With a view to the implementation of the Atlantic City Table of Frequency Allocations, countries will adopt the procedure outlined in this Article, for the final adjustment of assignments to the appropriate Atlantic City bands.
- 156** § 2. During a final adjustment period of relatively short duration all remaining out-of-band assignments in the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s will move to frequencies within the appropriate Atlantic City bands. This movement of assignments shall be in accordance with a prearranged schedule as provided in 159, 160, 161 and 162. The date for the beginning of this period shall be in accordance with 157 and 158.
- 157** § 3. (1) The Administrative Council is invited, at its session in 1955, to review the progress made during the interim period, with a view to recommending a specific date for the beginning of the final adjustment period, taking into account that the plans for High Frequency Broadcasting may have been accepted and their implementation agreed. If no plans have been accepted for High Frequency Broadcasting or if the progress made by other services during the interim period has not developed to a satisfactory degree, the Administrative Council is invited to consider the situation and make recommendations to Administrations for measures to be taken, amongst which will be considered the convening of the Administrative Radio Conference referred to in 170.

158 (2) Should the Members of the Union consider that the date recommended by the Administrative Council for the commencement of the final adjustment period is not acceptable, the Council is invited to reconsider the matter at each of its subsequent sessions until such time as a majority of the Members of the Union agree on a suitable date.

159 § 4. Except as noted in 167 the movement of out-of-band assignments during the final adjustment period will, as far as possible, follow the schedule set out below :

160 § 5. Reassignments should begin at 27 500 kc/s and continue downward progressively by blocks of frequencies. For this purpose the spectrum has been divided in seven "blocks" as shown in the following table :

Block No. 1	27 500	—	21 450 kc/s
Block No. 2	21 450	—	15 450 kc/s
Block No. 3	15 450	—	11 400 kc/s
Block No. 4	11 400	—	6765 kc/s
Block No. 5	6765	—	5250 kc/s
Block No. 6	5250	—	3950 kc/s (4000 kc/s Region 2)
Block No. 7	3950 (4000 kc/s Region 2)	—	2850 kc/s

161 § 6. (1) On the date set for the start of the final adjustment period, all out-of-band operations in Block No. 1 should cease. Adjustment within the block may however be continued by transferring assignments which had been out-of-band within the block into the space made available by the cessation of out-of-band operations, and by the movement from the block below into appropriate bands in Block No. 1.

162 (2) A period of one month from the date on which out-of-band operations in Block No. 1 have ceased should be allowed for making these adjustments. At the conclusion of this period, out-of-band operations in Block No. 2 should cease and a similar period of one month should be allowed for adjustments into band within

that block. The same process will follow in other blocks successively. The duration of the final adjustment period would accordingly be seven months.

ARTICLE 17

Special Procedure Applicable to the Different Services

- 163** § 1. During the final adjustment period, the Fixed, Land Mobile and Tropical Zone Broadcasting Services shall finally adjust operations to the appropriate bands to clear the bands allocated to other services, and to facilitate the preparation of the Draft International Frequency List as described in Article 10.
- 164** § 2. Also, during this period, the operations of the High Frequency Broadcasting Service shall be brought into conformity with the assignments contained in the Plan for this service, prepared in accordance with the provisions of Article 11, and accepted in accordance with Article 28.
- 165** § 3. During the final adjustment period, coast stations should follow the procedure detailed in 159, 160, 161 and 162. When out-of-band operations cease in a particular block, coast stations which have not already done so will move to their assigned frequency in accordance with the Coast Station Plans appearing in Annexes 5 and 6.
- 166** § 4. (1) During the final adjustment period, Administrations should complete the adjustment of their frequency usage by the Aeronautical Mobile Service.
- 167** (2) Where such frequency usage is provided for in the basic allotment plans, these adjustments would be made in accordance with the methods in Article 15.
- 168** (3) Where such frequency usage is not provided for in the basic allotment plans, these adjustments would be made in accordance with the technical principles referred to in 84 and on a secondary sharing basis as prescribed in 85, 86 and 87.

CHAPTER VI

**ADOPTION OF THE NEW INTERNATIONAL FREQUENCY LIST
AND ENTRY INTO FORCE OF THE TABLE
OF FREQUENCY ALLOCATIONS**

ARTICLE 18

Introduction

- 169** § 1. For the bands between 14 kc/s and 3950 kc/s (4000 kc/s Region 2), the new International Frequency List and the Atlantic City Table of Frequency Allocations shall come into force as specified in Articles 19 to 26.
- 170** § 2. For the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s, the Atlantic City Table of Frequency Allocations shall come into force on a date to be fixed by an Administrative Radio Conference as the effective date of the new International Frequency List for these bands.

ARTICLE 19

Band 14-55 kc/s (World-Wide)

- 171** The effective date for the entry into force of the new International Frequency List for the band between 14 kc/s and 55 kc/s and of the part of the Atlantic City Table of Frequency Allocations corresponding to that band shall be 15 August 1952.

ARTICLE 20

Band 55-150 kc/s

172 § 1. The effective dates for the entry into force of the new International Frequency List for the band between 55 kc/s and 150 kc/s and for the part of the Atlantic City Table of Frequency Allocations corresponding to that band shall be as follows :

173 *A. Region 1.* Both the new International Frequency List for the band between 55 kc/s and 150 kc/s in this Region and the corresponding part of the Atlantic City Table of Frequency Allocations will enter into force on 15 August 1953. Frequency assignments made in conformity with 111 and 113 of the Radio Regulations may be brought into use in advance of 15 August 1953 by means of special arrangements.

174 *B. Regions 2 and 3.* The new International Frequency List for the band between 55 kc/s and 150 kc/s in these Regions will enter into force on 15 August 1952. The corresponding part of the Atlantic City Table of Frequency Allocations for the band between 55 kc/s and 150 kc/s in Regions 2 and 3 will enter into force on 15 August 1953.

175 § 2. In the period between 15 August 1952 and 15 August 1953, if harmful interference is caused to existing services operating in the band 55-150 kc/s in Region 1, by services operating in this band in either Region 2 or Region 3, the services causing such interference should, whenever practicable, be adjusted so as to eliminate the interference.

ARTICLE 21

Band 150-3950 kc/s in Region 1

SECTION I. — *General.*

176 § 1. The effective dates for the entry into force of the new International Frequency List for the band between 150 kc/s and 3950 kc/s

in Region 1 and of the part of the Atlantic City Table of Frequency Allocations corresponding to that band shall be as follows :

SECTION II. — *Band 150-2850 kc/s.*

177 § 2. *African Area.*

Band	Effective Date
150 — 255 kc/s (Movements to assignments in this band are to start on 1 May 1952).	1 July 1952
255 — 285 kc/s	1 July 1952
285 — 315 kc/s	1 January 1953
315 — 405 kc/s	1 July 1952
405 — 525 kc/s (Movements to assignments in this band are to be made at 0200 G.M.T. on 1 May 1952).	1 May 1952
525 — 1605 kc/s (Movements to assignments in this band are to start on 1 May 1952)	1 August 1952

178 § 3. *Region 1 (except African Area) **

255 — 285 kc/s	1 July 1952
285 — 320 kc/s (Movements to assignments in this band are to be made on 1 August 1953).	1 August 1953
320 — 415 kc/s	1 July 1952

178.1 * Bands 150-255 kc/s and 415-1605 kc/s, as well as certain other assignments in the bands between 255 and 415 kc/s, became effective on 15 March 1950 (Copenhagen Plans, 1948).

179 § 4. *Region 1 (entire).*

Band	Effective Date
1605-2850 kc/s (except ship frequencies other than 2182 kc/s *). (Movements to assignments in this band are to be made at 0200 G.M.T. 1 May 1953).	1 May 1953
1605-2850 kc/s (ship frequencies, except 2182 kc/s *). (Movements to assignments in this band are to start on 1 May 1953).	1 November 1953

SECTION III. — Band 2850-3950 kc/s.

- 180** § 5. The effective date for the new International Frequency List and the Atlantic City Table of Frequency Allocations for Region 1 in the bands between 2850 kc/s and 3950 kc/s shall, subject to the provisions of Article 26, be determined by an Administrative Radio Conference (see 170), which adopts the new International Frequency List for the Fixed, Land Mobile and Broadcasting Services in the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.
- 181** § 6. Movements to assignments in this band are to start on 1 May 1952.

179.1 * See Article 24.

ARTICLE 22

Band 150-4000 kc/s in Region 2

SECTION I. — *General.*

- 182** § 1. The effective dates for the entry into force of the new International Frequency List for the band between 150 kc/s and 4000 kc/s in Region 2 and of the part of the Atlantic City Table of Frequency Allocations corresponding to that band shall be as follows :

SECTION II. — *Band 150-2000 kc/s.*

- 183** § 2. This section specifies the effective dates for the several portions of the new International Frequency List and the Atlantic City Table of Frequency Allocations for Region 2 in the bands between 150 kc/s and 2000 kc/s.

Band	Effective Date
150 — 200 kc/s	1 December 1952
200 — 535 kc/s	1 November 1952
535 — 1605 kc/s	1 December 1952
1605 — 2000 kc/s	1 January 1952

SECTION III. — *Band 2000-2850 kc/s.*

- 184** § 3. The movement of assignments in Region 2 for the band 2000-2850 kc/s will be undertaken as a part of the same coordinated programme as that specified in this Agreement for the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.
- 185** § 4. The effective date of the new International Frequency List and the Atlantic City Table of Frequency Allocations for Region 2 in the band 2000-2850 kc/s will be determined in accordance with the provisions of 1076.1 of the Radio Regulations.

SECTION IV. — *Band 2850-4000 kc/s.*

- 186** § 5. The effective date for the new International Frequency List and the Atlantic City Table of Frequency Allocations for Region 2 in the bands between 2850 kc/s and 4000 kc/s shall, subject to the

provisions of Article 26, be determined by an Administrative Radio Conference (see 170) which adopts the new International Frequency List for the Fixed, Land Mobile and Broadcasting Services in the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.

- 187 § 6. The movement of assignments in Region 2 for the band 2850-4000 kc/s will be undertaken as a part of the same coordinated programme as that specified in this Agreement for the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.

ARTICLE 23

Band 150-3950 kc/s in Region 3

SECTION I. — *General.*

- 188 § 1. The effective dates for the entry into force of the new International Frequency List for the band between 150 kc/s and 3950 kc/s in Region 3 and of the part of the Atlantic City Table of Frequency Allocations corresponding to that band shall be as follows :

SECTION II. — *Band 150-2850 kc/s.*

- 189 § 2.

Band	Effective Date
150 — 200 kc/s	1 February 1953
(Movements to assignments in this band are to start on 1 December 1952).	
200 — 415 kc/s	4 January 1953
(Movements to assignments in this band are to be made at 1400 G.M.T. on 4 January 1953).	

Band	Effective Date
415 — 535 kc/s (Movements to assignments in this band are to be made at 1400 G.M.T. on 1 February 1953).	1 February 1953
535 — 1605 kc/s (Movements to assignments in this band are to start on 1 December 1952).	1 February 1953
1605-2850 kc/s (except ship stations) (Movements to assignments in this band, except for coast station assignments, are to start on 1 December 1952. Movements to coast station assignments in this band are to be made at 1400 G.M.T. on 1 February 1953).	1 February 1953
1605-2850 kc/s (ship stations, except 2182 kc/s). (Movements to assignments in this band are to start on 1 December 1952, except for the frequency 2182 kc/s which is to be brought into use at 0200 G.M.T. on 1 May 1953, in accordance with the provisions of Article 24).	30 April 1953

SECTION III. — *Band 2850-3950 kc/s.*

- 190 § 3. The effective date for the entry into force of the new International Frequency List for the bands between 2850 kc/s and 3950 kc/s in Region 3 and of the Atlantic City Table of Frequency Allocations corresponding to this band shall, subject to the provisions of Article 26, be determined by an Administrative Radio Conference

(see 170) which adopts the new International Frequency List for the Fixed, Land Mobile and Broadcasting Services in the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.

- 191** § 4. Movements to assignments in these bands are to start on 1 February 1953.

ARTICLE 24

Special Provisions Applying to the Maritime Mobile Service for the Frequency 2182 kc/s

- 192** The provisions of 148 of the Radio Regulations relating to the international distress and calling frequency 2182 kc/s shall be brought into effect at 0200 G.M.T. on 1 May 1953.

ARTICLE 25

Special Provisions Applying to the Aeronautical Mobile Service in its Exclusive Bands between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2)

- 193** For Major World Air Routes, frequencies in the exclusive aeronautical mobile bands between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2), are allotted on a basis of Major World Air Route Areas (MWARAs). In some cases these areas are not contained within the boundaries of a single Region. Before putting frequencies into use for MWARAs embracing more than one Region, interested Administrations should therefore take steps to ensure that these frequencies are made available simultaneously at the suitable locations in the different Regions.

ARTICLE 26

Special Provisions Regarding Bilateral or Multilateral Arrangements below 3950 kc/s (4000 kc/s Region 2)

- 194** Administrations which wish to do so may conclude bilateral or multilateral agreements, with a view to the total or partial

bringing into use prior to the dates indicated, of the parts of the new International Frequency List concerning them, provided that no harmful interference is caused thereby to the services of other Administrations.

ARTICLE 27

Adoption of the New International Frequency List for the Fixed, Land Mobile and Tropical Zone Broadcasting Services for the Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s

- 195 § 1. The Draft International Frequency List for the above services shall be submitted to an Administrative Radio Conference (see 170) for consideration and adoption. This Conference will consider new assignments that have been put into operation and any changes in frequency usage received by the I.F.R.B. after the commencement of the preparation of the Draft International Frequency List.
- 196 § 2. Should the I.F.R.B. find it impossible to prepare a Draft International Frequency List in accordance with the procedure provided for in Article 10, it will refer the matter to the Administrative Council which is invited to take appropriate action.
- 197 § 3. The adopted List for these services shall be included in the new International Frequency List.

ARTICLE 28

Adoption of Plans for the High Frequency Broadcasting Service for the Bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s

- 198 § 1. The I.F.R.B. will, if necessary, communicate to Administrations the degree of voluntary reduction to be made by them in their requirements in accordance with 102; it shall also submit to Administrations the draft plans it will have completed. The Administrations can send to the I.F.R.B. their comments on such a submission, to be received by a date it will specify, and the I.F.R.B. shall submit the results to the Administrative Council. In the

light of the comments received from Administrations, the Administrative Council is invited to consider whether a High Frequency Broadcasting Conference is necessary for the consideration of these draft plans.

- 199 § 2. When plans for the High Frequency Broadcasting Service are adopted, the assignments in these plans shall be included in the Draft International Frequency List or in the new International Frequency List, whichever applies.

ARTICLE 29

Entry into Force of the Plans for the Maritime Mobile Service in the Exclusive Bands between 4000 kc/s and 27 500 kc/s

- 200 § 1. The assignments to coast stations in accordance with the plans referred to in Article 8 shall constitute the new International Frequency List for the Maritime Mobile Service in the exclusive bands allocated to that service between 4000 kc/s and 27 500 kc/s.
- 201 § 2. The new International Frequency List for the Maritime Mobile Service in these bands and the corresponding parts of the Atlantic City Table of Frequency Allocations shall come into force on the date fixed by an Administrative Radio Conference (see 170) as the effective date for the new International Frequency List for the Fixed, Land Mobile and Tropical Zone Broadcasting Services in the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.

ARTICLE 30

Entry into Force of the Plans for the Aeronautical Mobile Service in its Exclusive Bands between 2850 kc/s and 27 500 kc/s

- 202 § 1. The allotments in the plans for the Aeronautical Mobile Service referred to in 263 and the assignments to aeronautical stations referred to in 251 and 252, shall constitute the new Inter-

national Frequency List for the Aeronautical Mobile Service in the exclusive bands allocated to that service between 2850 kc/s and 27 500 kc/s.

- 203 § 2. The new International Frequency List for the Aeronautical Mobile Service in these bands and the corresponding parts of the Atlantic City Table of Frequency Allocations shall come into force on the date fixed by an Administrative Radio Conference (see 170) as the effective date for the new International Frequency List for the Fixed, Land Mobile and Tropical Zone Broadcasting Services in the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s.

CHAPTER VII

**NOTIFICATION AND REGISTRATION OF FREQUENCIES.
INTERIM PROCEDURE FOR THE RECORDING
OF FREQUENCY ASSIGNMENTS**

ARTICLE 31

Entry into Force of Articles 10, 11 and 12 of the Radio Regulations

SECTION I. — General Provisions of Articles 10, 11 and 12.

- 204 § 1. Articles 10 and 12 and Sections VII and VIII of Article 11 of the Radio Regulations which do not pertain to the NOTIFICATION and REGISTRATION procedure, shall come into force as from the date of entry into force of this Agreement.
- 205 § 2. The terms “ Master Radio Frequency Record ” and “ Radio Frequency Record ”, in this Agreement, shall have the same significance as the terms “ Master-International Frequency Register ” and “ International Frequency List ” (List I, Appendix 6), respectively, in the Radio Regulations, until otherwise decided.

SECTION II. — Provisions of Article 11 Relating to Notification and Registration Procedure.

- 206 § 3. The provisions of Sections I to VI inclusive, of Article 11 of the Radio Regulations, pertaining to the NOTIFICATION and REGISTRATION procedure, shall come into force in the following frequency bands, in the Regions, and on the dates specified :

Regions	Frequency Bands kc/s	Dates
Regions 1, 2 and 3	14 - 55	15 August 1952
Regions 1, 2 and 3	55 - 150	15 August 1953
Region 1	1605 - 2850	1 November 1953
Region 1, except African Area	255 - 285	1 July 1952
	285 - 320	1 August 1953
	320 - 415	1 July 1952
Region 1, African Area	150 - 285	1 July 1952
	285 - 315	1 January 1953
	315 - 405	1 July 1952
	405 - 525	1 May 1952
	525 - 1605	1 August 1952
Region 2	150 - 200	1 December 1952
	200 - 535	1 November 1952
	1605 - 2000	1 January 1952
Region 3	150 - 200	1 February 1953
	200 - 415	4 January 1953
	415 - 1605	1 February 1953
	1605 - 2850	30 April 1953

SECTION III. — *Application of Interim Procedure.*

207 § 4. For the frequency bands, and in the Regions where the paragraphs of the Radio Regulations relating to the NOTIFICATION and REGISTRATION procedure are not in force, the I.F.R.B. shall apply the interim procedure contained in Articles 33 and 35.

SECTION IV. — *Significance of Dates in Column 2 of the Radio Frequency Record during the Interim Period.*

208 § 5. During the period before the bringing into full force of Article 11 of the Radio Regulations, operations on assignments with dates recorded in column 2a shall have the right to international protection from harmful interference from operations on all assign-

ments with a date recorded in column 2*b* of the Radio Frequency Record, except that within regional bands this protection shall apply only between operations within the same Region.

- 209 § 6. During the period before the bringing into full force of Article 11 of the Radio Regulations, assignments bearing dates in column 2*a* or in column 2*b* shall not be entitled to international protection from harmful interference from assignments with a date recorded in column 2*c* only.

ARTICLE 32

Notification of Frequency Assignments by Administrations

SECTION I. — *Where Article 11 of the Radio Regulations is in full force.*

- 210 § 1. For the frequency bands and in the Regions where Sections I to VI inclusive of Article 11 of the Radio Regulations relating to the NOTIFICATION and REGISTRATION procedure are in force (see 206), Administrations shall notify the I.F.R.B. of frequency assignments in accordance with Section II of Article 11 of the Radio Regulations.

SECTION II. — *Where Article 11 of the Radio Regulations is not in full force.*

- 211 § 2. For each of the frequency bands below 3950 kc/s (4000 kc/s Region 2), except for the exclusive aeronautical mobile bands above 2850 kc/s, during the period in which Article 11 of the Atlantic City Radio Regulations is not in full force, Administrations should notify the I.F.R.B. of :
- 212 *a)* the date of putting into service of each assignment made in accordance with the adopted lists ;

- 213** *b)* information in accordance with Section II of Article 11 of the Radio Regulations concerning :
- (i) additional assignments not provided for in the adopted lists,
 - (ii) amendments to existing assignments,
 - (iii) temporary assignments which may be required by some stations within the appropriate bands before they can be transferred to assignments in accordance with the adopted lists.

214 § 3. For the frequency band between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s, and for the exclusive aeronautical mobile bands between 2850 kc/s and 3950 kc/s, Administrations should :

- 215** *a)* whenever practicable, inform the I.F.R.B. in advance of a proposed change in frequency usage. The information requested in the Appendix to this Agreement should reach the I.F.R.B. not earlier than three months, and not later than two weeks, before the date for such a change ;

- 216** *b)* inform the I.F.R.B. when any change in frequency usage has taken place. Such information should indicate :
- the frequency concerned ;
 - when appropriate, the frequency vacated and the entry to be deleted ;
 - the date upon which the change took place ;
 - whether the change is a reversion to an earlier assignment in accordance with 115.

Such information should reach the I.F.R.B. not later than ten days after such change.

217 § 4. In any case where an Administration has not previously submitted to the I.F.R.B., in accordance with 215, the minimum information requested in the Appendix with respect to any change

of frequency usage which has occurred, it shall submit such information to the I.F.R.B. immediately after the change occurs.

218 § 5. In addition, in the case of changes in frequency usage, in the services for which plans or lists have been adopted, Administrations should indicate into which of the following categories each change falls :

219 *a)* putting into service of an assignment indicated in the plans or lists for future **REGISTRATION** ;

220 *b)* putting into service of an assignment indicated in the plans or lists for future **NOTIFICATION** ;

221 *c)* putting into service of an assignment within an appropriate band but for which no provision has been made in the accepted plans or lists ;

222 *d)* putting into service of an assignment outside the appropriate bands ;

223 *e)* temporary assignments as indicated in 213 (iii).

224 § 6. For the frequency bands above 27 500 kc/s, information concerning changes in frequency usage should be forwarded to the I.F.R.B. in the form of Appendix 6, List I of the Radio Regulations.

ARTICLE 33

Recording of Frequency Assignments by the I.F.R.B.

SECTION I. — *Assignments within the bands for which Article 11 of the Radio Regulations is in full force.*

225 § 1. In the case of an actual or proposed change in frequency usage, in bands for which Sections I to VI inclusive of Article 11

of the Radio Regulations relating to NOTIFICATION and REGISTRATION procedure are in force, the I.F.R.B. shall follow the provisions of those Sections.

SECTION II. — *Assignments within the bands below 3950 kc/s (4000 kc/s Region 2), except the exclusive aeronautical mobile bands between 2850 kc/s and 3950 kc/s, during the period in which Article 11 of the Radio Regulations is not in full force.*

- 226 § 2. On receipt of a notice of putting into service an assignment in accordance with adopted lists, the I.F.R.B. shall record, in column 2c of the relevant entry in the Master Radio Frequency Record, the date of putting the assignment into service.
- 227 § 3. (1) On receipt of a notice of a new assignment or of changes in the basic characteristics of an assignment, the I.F.R.B. shall amend the Master Radio Frequency Record accordingly.
- 228 (2) In the case of a new assignment in the band 535-1605 kc/s in Region 2, no date shall be entered in column 2a or 2b. In all other cases of a new assignment or of a change in the basic characteristics of an assignment, the date of receipt by the I.F.R.B. of the notification shall be recorded in column 2b. The date of putting into service shall be recorded in column 2c in all cases.
- 229 (3) Notifications of changes in the basic characteristics of an assignment shall be treated as new notifications unless, in the view of the Board, there is no appreciable change in the probability of harmful interference to existing assignments or those in adopted lists, in which case there shall be no change in the dates in columns 2a, 2b or 2c.
- 230 (4) The assignments in the band 535-1605 kc/s in Region 2 to be made in accordance with the next South American Regional Radio Agreement will be dealt with by the I.F.R.B. in the same manner as the other assignments in that band for Region 2.

SECTION III. — *Assignments within the bands between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s and the exclusive aeronautical mobile bands between 2850 kc/s and 3950 kc/s.*

§ 4. *Examination of notices of proposed changes in frequency usage.*

- 231 (1) The I.F.R.B. shall examine each notice concerning a proposed change in frequency usage to ascertain :
- 232 (a) that the essential information called for in the Appendix to this Agreement has been supplied ;
- 233 (b) that it conforms to the Atlantic City Table of Frequency Allocations and associated rules for the allocation of frequencies ;
- 234 (c) that it conforms to the relevant provisions of the Convention and the Radio Regulations, with the exception of those relating to the probability of harmful interference ;
- 235 (d) as far as the information at its disposal permits, the probability of causing harmful interference to
- (i) assignments with a date in column 2c only ;
 - (ii) assignments with dates in columns 2a and 2c, or in columns 2b and 2c ;
- 236 (e) as far as the information at its disposal permits, the probability of causing harmful interference to assignments which may be brought into use in conformity with adopted plans or lists.
- 237 (2) A notice involving the proposed putting into service of a new or transferred assignment in a band for which there is an adopted plan or list, shall also be examined to ascertain whether the assignment :
- 238 (a) conforms to the adopted plan or list ;

- 239 (b) conforms with a primary or secondary allotment contained in an adopted plan ;
- 240 (c) qualifies for REGISTRATION or NOTIFICATION in the adopted plan or list.

§ 5. *Findings by the I.F.R.B.*

- 241 (1) A notice of a proposed change in frequency usage, incomplete in respect of essential data shall be returned immediately by air mail with the Board's reasons for this finding.
- 242 (2) A notice of a proposed change in frequency usage, unsatisfactory with respect to 235 shall be returned immediately by air mail with appropriate comments by the I.F.R.B. In addition these comments will be transmitted to any other Administration which may be affected.
- 243 (3) A notice of a proposed change in frequency usage, not in conformity with the provisions of the Convention and Radio Regulations, other than those concerned with the Atlantic City Table of Frequency Allocations, or with harmful interference, shall be returned immediately by air mail, with an explanation for this finding.
- 244 (4) For a notice which is satisfactory in respect of 232, 234 and 235, the I.F.R.B. shall inform the Administration that the assignment will be recorded in accordance with 247, but if the proposed change is not satisfactory under 233 or 236, the attention of the Administration shall be drawn to this fact.
- 245 (5) A notice returned to an Administration under 242 or 243, and re-submitted to the I.F.R.B., but remaining unsatisfactory in either of these respects shall, if the Administration insists, be recorded by the I.F.R.B. in the Master Radio Frequency Record on receipt of advice of putting the assignment into service.

§ 6. *Recording in the Master Radio Frequency Record.*

- 246 (1) Except in the case of the basic entries made in accordance with 261 to 267 no entry shall be recorded unless the minimum essential data has been furnished by the Administration concerned.
- 247 (2) On receipt of further notice from an Administration that a change of frequency usage has taken place, the Board shall make an appropriate entry in the Record. The date on which the change took place shall be recorded in column 2c.
- 248 (3) However, if a notice concerning the putting into service of an assignment has not been preceded by the advance notice referred to in 215, the I.F.R.B., before recording the assignment, shall carry out the procedure laid down in 231 to 245.
- 249 (4) If a frequency is slightly adjusted as a result of negotiations between Administrations in consultation with the I.F.R.B., to enable more efficient use of the spectrum, and provided the adjustment does not cause harmful interference to established assignments, or to assignments in adopted plans or lists, the adjustment shall be recorded without change in the date in column 2c of the Record.
- 250 (5) When an Administration reverts to an earlier assignment within six months of a transfer in accordance with 115, the assignment shall be recorded with the date of the earlier entry in column 2c of the Record.
- 251 (6) Entries made in the Record for aeronautical station assignments on a primary (R and OR) or secondary (OR) allotment basis in accordance with the adopted allotment plan, shall in addition, have the date of the signature of this Agreement recorded in column 2a or 2b respectively.
- 252 (7) Aeronautical station assignments within an appropriate aeronautical exclusive band which are not specifically provided for in the adopted allotment plans but which are in conformity with the technical principles on which those plans are based shall have the date of signature of this Agreement recorded in column 2b.

- 253 (8) All other aeronautical station assignments in the appropriate bands shall be recorded with the date of receipt of the notice by the I.F.R.B. in column 2*b* and the date of putting into service in column 2*c*.
- 254 (9) Entries made for coast station assignments in the appropriate bands but not in accordance with the adopted list or plan shall have the date of receipt of the notice by the I.F.R.B. recorded in column 2*b* and the date of putting into service in column 2*c*. The date in column 2*b* must be after the dates mentioned in 277.
- 255 (10) Where the date of receipt by the I.F.R.B. of a notice concerning a change in frequency usage is more than ten days after the date upon which the change is stated to have occurred, the date to be entered in column 2*c* of the Record shall be that of the tenth day before the date upon which the notice was received by the I.F.R.B.

SECTION IV. — *Assignments above 27 500 kc/s.*

- 256 § 7. Notices for assignments in the bands above 27 500 kc/s shall be examined and recorded in accordance with the provisions of Section III above, except for 235 and 249 to 255.
- 257 § 8. (1) For these bands the minimum essential information referred to in 246 is as follows :
1. Assigned frequency in kc/s.
 - 2*c*. Date of putting into service.
 4. Area of operation.
 5. Class of station and nature of service.
 6. Class and bandwidth of emission.
 8. Mean power in kW.
- 258 (2) However, it is recommended that Administrations, wherever practicable, supply at least the information in accordance with the Appendix to this Agreement, particularly where inter-regional or long distance communication is involved.
- 259 § 9. The date of actual putting into service of the assignment shall be inserted in column 2*c*. No date is to be inserted in columns 2*a* or 2*b*.

ARTICLE 34

Master Radio Frequency Record

SECTION I. — *General.*

- 260** § 1. The Master Radio Frequency Record shall be compiled and maintained by the I.F.R.B., preferably with the aid of a mechanical system.

SECTION II. — *Basic Entries.*

- 261** § 2. The I.F.R.B. shall enter the following initial data into the Master Radio Frequency Record :
- 262** (a) the assignments in the new International Frequency List for the bands between 14 kc/s and 3950 kc/s (4000 kc/s Region 2) (Annexes 1, 2, 3 and 4) ;
- 263** (b) the allotments in the plans for the Aeronautical Mobile Service (Annexes 8 and 9), with the following reference inserted in column 13 : “ C.I.A.R.A.” ;
- 264** (c) the allotments and assignments in the Maritime Mobile Plans for Coast Stations (Annexes 5 and 6) ;
- 265** (d) the ship station radiotelegraph calling and working frequencies which are contained in Appendix 10 of the Radio Regulations and the ship station radiotelephone frequencies as indicated in Annex 7 with a suitable indication of their purpose ;
- 266** (e) the assignments contained in the Provisional International Frequency List for frequencies above 27 500 kc/s ;
- 267** (f) frequencies for specific purposes as laid down in the Radio Regulations.
- 268** § 3. As soon as the information on frequency usage has been furnished in accordance with 272, 273 and 274, the I.F.R.B. shall enter it in the Master Radio Frequency Record.

SECTION III. — *Particulars required for basic entries in the Master Radio Frequency Record.*

§ 4. *Entries from adopted Frequency Assignment Plans and Lists.*

- 269 (1) The particulars for the completion of original entries from the adopted frequency assignment plans and lists referred to in Section II of this Article should be submitted by Administrations to the I.F.R.B. at an early date in the form of Appendix 6, List I, of the Radio Regulations.
- 270 (2) When an assignment from an accepted plan or list is already in use, the Administration should also notify to the I.F.R.B. the date of putting into service.
- 271 (3) The particulars shall be recorded by the I.F.R.B. in the appropriate entry in the Master Radio Frequency Record. For the appropriate dates to be included, see 276 to 279.

§ 5. *Particulars to be furnished by Administrations in respect of frequency usage.*

- 272 (1) Administrations should furnish to the I.F.R.B. not later than 1 April 1952, particulars in respect of the usage of frequencies needed to maintain their existing services over a complete solar cycle, for all services, other than the Amateur Service, between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s and for the bands 2850-3155 kc/s, 3400-3500 kc/s, and in Region 1, 3900-3950 kc/s. The minimum particulars to be submitted are those specified in the Appendix to this Agreement.
- 273 (2) Such assignments shall be recorded by the I.F.R.B. in the Master Radio Frequency Record, but with no entry in either column 2a or 2b in such instance except as provided for in 251 to 254 and 277.
- 274 (3) Each assignment appearing in the last edition of the I.T.U. List of Frequencies (16th edition, including the final supplement) for which the particulars have been furnished in accordance with 272, shall show in column 2c of the Master Radio Frequency Record

the date recorded in column 12 of the last edition of the I.T.U. List of Frequencies. In the case of a frequency which has been transferred without changing the nature of the service, from one station to another station of the same Administration, separated geographically by a distance not sufficient to cause a change in the possibilities of interference, the entry in the Master Radio Frequency Record shall bear, in column 2c, the date recorded in column 12 of the appropriate edition of the I.T.U. List of Frequencies for the former assignment.

§ 6. *Entries from the Provisional International Frequency List above 27 500 kc/s.*

- 275 The data for the completion of the original entries from the Provisional International Frequency List above 27 500 kc/s should be submitted by Administrations to the I.F.R.B. at an early date in the form of Appendix 6, List I, of the Radio Regulations ; such data shall be recorded by the I.F.R.B. for the particular entries in the Master Radio Frequency Record.

§ 7. *Entries in Columns 2a and 2b.*

- 276 (1) In the case of the entries referred to in 263, 265, 266 and 267, no date shall be inserted in columns 2a or 2b. This provision shall apply also to entries for assignments in the band 535-1605 kc/s in Region 2.
- 277 (2) In the case of entries for the assignments referred to in 262 and 264, with the exception of the bands 535-1605 kc/s in Region 2, 3155-3400 kc/s and 3500-3900 kc/s in Region 1, the date of the signature of this Agreement shall be inserted in *column 2a*, with the exception of assignments indicated as NOTIFICATIONS in the lists or plans, in which case the date of the *day after* the signing of this Agreement shall be inserted in *column 2b*. In the case of the bands 3155-3400 kc/s and 3500-3900 kc/s in Region 1 no date shall be entered in *column 2a* and the date of the signature of this Agreement shall be inserted in *column 2b*.

§ 8. *Entries in Column 2c.*

- 278 For the entries for the assignments referred to in 262, 264 and 266, the date to be entered in column 2c shall be the date of putting the assignment into service.

SECTION IV. — *Subsequent Entries and Amendments.*

- 279 § 9. Subsequent entries and amendments to the Master Radio Frequency Record shall be recorded by the I.F.R.B. in accordance with the provisions of Article 33.

ARTICLE 35

Preparation and Publication of the Radio Frequency Record

- 280 § 1. The Radio Frequency Record shall be compiled from the information contained in the Master Radio Frequency Record, and shall be published by the Secretary General in the form of Appendix 6, List I, of the Radio Regulations.
- 281 § 2. The first edition of the Radio Frequency Record to be published not later than 1 October 1952, shall include the information contained in the Master Radio Frequency Record, and received by the I.F.R.B. not later than 1 April 1952.
- 282 § 3. Thereafter, the Record shall be kept up-to-date by the publication of quarterly supplements. Recapitulatory supplements and new editions shall be published when considered necessary by the Secretary General.
- 283 § 4. For those countries whose Administrations have not furnished in the required form any information on their current usage of frequencies in accordance with 272, the I.F.R.B. shall extract such information as is available from the last edition of the I.T.U. List of Frequencies (16th edition, including the final supplement referred to in 284). This information shall be published by the Secretary General in a separate document entitled "Supplementary Information to the Radio Frequency Record" concurrently with the publication of the Radio Frequency Record and in the same form,

and with no dates in columns *2a* or *2b*. The Secretary General shall publish half-yearly supplements to this document from the information compiled by the I.F.R.B.

ARTICLE 36

I.T.U. List of Frequencies

- 284** § 1. The Secretary General shall publish a final recapitulative supplement to the 16th edition of the I.T.U. List of Frequencies between 14 kc/s and 27 500 kc/s, containing particulars of all notifications and modifications received from Administrations up to 29 February 1952.
- 285** § 2. The Radio Frequency Record shall replace, as a service document, the I.T.U. List of Frequencies, and shall continue to be published until the date established for the entry into force of the complete new International Frequency List.

CHAPTER VIII

ARTICLE 37

Special Provisions Relating to the I.F.R.B.

- 286** § 1. In addition to those functions prescribed for the I.F.R.B. in the Atlantic City Convention and in those parts of the Radio Regulations which are already in force, or will come into force as a result of this Agreement, the I.F.R.B. shall carry out the special tasks envisaged in this Agreement, including those associated with the following :
- 287** (a) Assistance to Administrations in the transfer of frequency assignments in accordance with Article 12.
- 288** (b) Compilation of the Master Radio Frequency Record in accordance with Article 34.
- 289** (c) Preparation of the Draft International Frequency List for the Fixed, Land Mobile and Tropical Zone Broadcasting Services in accordance with Article 10.
- 290** (d) Preparation of the draft plans for the High Frequency Broadcasting Service in accordance with Article 11.
- 291** (e) Recording of frequency assignments under the interim procedure specified in Article 33.
- 292** (f) Preparation of reports and reviews of progress for the information of Members of the Union in accordance with Articles 13 and 14.
- 293** § 2. Administrations should co-operate with the I.F.R.B. in all matters connected with the carrying out of the duties referred to above including the supplying of any necessary information.

CHAPTER IX

ARTICLE 38

Entry into Force of certain Provisions of the Radio Regulations *

294 § 1. The following provisions of the Radio Regulations shall come into force on the dates indicated below :

Provisions of the Radio Regulations		Date
Article 2		Date of entry into force of this Agreement.
Article 17	397	Same dates as Appendix 3 to the Radio Regulations.
Article 17	398 to 400	Date of entry into force of this Agreement.
Article 20	(except 447, 448 and 470)	Date of entry into force of this Agreement.
Article 28	573	As from the date when each station commences operations in the appropriate Atlantic City band.
Article 28	574 to 580	Date of entry into force of this Agreement.
Article 28	581	As from the date when each station commences operations in the appropriate Atlantic City band, except for ship stations operating between 1605 kc/s and 4000 kc/s in Region 1 for which 581 shall not come into force.

* For the entry into force of Articles 10, 11 and 12 of the Radio Regulations, see Article 31 of this Agreement.

Provisions of the Radio Regulations		Date
Article 28	582	As from the date of the entry into force of the appropriate Atlantic City bands.
Article 28	583 to 588	Date of entry into force of this Agreement.
Article 28	589	1 May 1953.
Article 28	590 to 594	As from the date when each station commences operations in the appropriate Atlantic City band.
Article 28	595 to 599	Date of entry into force of this Agreement.
Article 28	600 (1st sentence)	Date of entry into force of this Agreement.
Article 28	600 (2nd sentence)	The same date as for calling bands in Appendix 10 to the Radio Regulations (see 301).
Article 28	601	Date of entry into force of this Agreement.
Article 29	621	As from the date when each station commences operations in the appropriate Atlantic City band.
Article 33	711 to 724	Date of entry into force of this Agreement.
Article 33	725 (1st sentence)	Date of entry into force of this Agreement.
Article 33	725 (2nd sentence)	Dates specified in Articles 21, 22 and 23 of this Agreement for the entry into force of the appropriate band.
Article 33	726 to 729	Date of entry into force of this Agreement.
Article 33	730 to 732	Dates specified in Articles 21, 22 and 23 of this Agreement for the entry into force of the appropriate band.

Provisions of the Radio Regulations		Date
Article 33	733 to 754	Date of entry into force of this Agreement.
Article 33	755 to 763	The same date as for the appropriate band of Appendix 10 to the Radio Regulations (see 301).
Article 33	764 to 767	Date of entry into force of this Agreement.
Article 33	768	The same date as for the appropriate band of Appendix 10 to the Radio Regulations (see 301).
Article 33	769, 770	Date of entry into force of this Agreement.
Article 33	771, 772	The same date as for the appropriate band of Appendix 10 to the Radio Regulations (see 301).
Article 33	773	Date of entry into force of this Agreement.
Article 33	774	As from the date when each coast station commences operations in the appropriate Atlantic City bands.
Article 33	775 to 780	The same date as for the calling bands in Appendix 10 to the Radio Regulations (see 301).
Article 33	781 to 800	The same date as for the appropriate band of Appendix 10 to the Radio Regulations (see 301).
Article 33	801 to 803	Date of entry into force of this Agreement.
Article 34	804 to 812	Date of entry into force of this Agreement.
Article 34	813 to 827	1 May 1953.

Provisions of the Radio Regulations		Date
Article 34	828, 829	As from the date when each station commences operations in the appropriate Atlantic City bands.
Article 34	830 to 834	Date of entry into force of this Agreement.
Article 37	869	1 May 1953.
Article 44	1025	Date specified in Articles 21, 22 and 23 of this Agreement for the entry into force of the appropriate bands.
Article 44	1032	Dates specified in Articles 21, 22 and 23 of this Agreement for the entry into force of the appropriate bands.

295 § 2. The appendices to the Radio Regulations mentioned in 296 to 303 below shall come into force as indicated in each case.

296 § 3. (1) In Appendix 3 to the Radio Regulations the tolerances specified in column 2 shall apply until 1 May 1953 and the tolerances specified in column 3 shall apply after 1 May 1953. The date of 1 January 1950 appearing in note (6) shall be read as 1 May 1953.

297 (2) Appendix 3 to the Radio Regulations, as modified by 296, shall be in force as from the date of the entry into force of this Agreement with the following exceptions :

298 (a) Ship stations operating between 1605 kc/s and 30 000 kc/s (except 1605-2850 kc/s in Region 1) will conform to Appendix 3 on the scheduled date for completion of transfer to their assigned frequencies in the various bands.

299 (b) In Region 1 the tolerances indicated in column 3 of Appendix 3 will not be applied to ship stations, operating in the band 1605-2850 kc/s, until one year after the effective date for that portion of the Atlantic City Table of Frequency Allocations.

- 300 § 4. The Appendices 4, 5, 7 and 8 to the Radio Regulations shall enter into force on the same date as this Agreement.
- 301 § 5. The appropriate parts of Appendix 10 to the Radio Regulations shall be brought into force on the dates agreed upon in accordance with the procedure contained in 130, 134 and 138.
- 302 § 6. (1) The Table of Transmitting Frequencies contained in Annex 7 of this Agreement shall replace the Table of Transmitting Frequencies contained in Appendix 12 to the Radio Regulations.
- 303 (2) The new Table referred to above, and the remaining part of Appendix 12, shall be brought into effect in the case of ship stations on the date agreed upon in accordance with the procedure contained in 142 and in the case of coast stations in accordance with the procedure of 143, 144 and 145.

CHAPTER X

ARTICLE 39

Final Provisions

304 The present Agreement will come into force on 1 March 1952. Members and Associate Members of the Union shall notify the Secretary General of their approval of this Agreement in accordance with paragraph 3 of Article 13 of the Convention.

305 Members and Associate Members of the Union, who are not signatories of this Agreement, may accept it at any time. Such acceptance, which shall be without reservation, shall be communicated to the Secretary General, who shall promptly inform the other Members and Associate Members. The acceptance shall take effect on the date of its receipt by the Secretary General.

In witness whereof, the delegates of the countries Members of the Union, participants in the Extraordinary Administrative Radio Conference of Geneva (1951) have, in the names of their respective countries, signed the present Agreement in each of the English, French and Spanish languages, in a single copy, in which, in case of dispute, the French text shall be authentic, and which shall remain in the archives of the International Telecommunication Union, and one certified copy of which shall be forwarded to each signatory country.

Done at Geneva, the third of December 1951.

Pour le Royaume de l'Arabie Saoudite :

N. Shalhan

M. Ezzeldin Fouad

Pour la République Argentine :

AD REFERENDUM

O. Masat

J. J. J. J.

Adolfo P. P. P.
H. H. H. H.

R. H. J. J.
Alberto J. J. J.
Egidio L. L. L.

Pour la Fédération de l'Australie :

W. W. W. W.

W. M. Donald

J. M. Dobbins

A. F. De Darsel.

J. H. H. H.

Patrick Shaw.

Pour l'Autriche :

F. H. H. H.

H. H. H. H.

Pour la Belgique :

H. H. H. H.

H. H. H. H.

H. H. H. H.

Pour la Birmanie :

A. A. Muntz Ky

H. K. Muntz

Sundaram

Pour la Bolivie :

J. L. Muntz
et G. Muntz
Kim

Pour le Brésil :

Aldo Weber Vieira da Rosa
Regis Martin de Aloy
João V. A. P. P. P.
João C. P. P.
Luis Villalobos
F. L. P. P. P.
— J. —

Pour le Canada :

ad referendum.

Ch. Beant.

Pour Ceylan :

Ch. A. K. K.

Pour le Chili :

Ad referendum
guiray

Pour la Chine :

Ng-Mo-Ke *Wong*

Pour l'Etat de la Cité du Vatican :

Filippo Soccori

Pour la République de Colombie :

Ad referendum,

J. H. D'Ambo Fella

Pour les Colonies, protectorats, territoires
d'Outre-mer et territoires sous mandat ou
tutelle du Royaume-Uni de la Grande Bretagne
et de l'Irlande du Nord :

Knighon

Pour Costa Rica :

ad referendum

Armadio

Pour Cuba :

Ad referendum

Calderón

Pour le Danemark :

Henri Pedersen

H. P. Cunningham

Pour la République Dominicaine :

Leopoldo

Sanchez

Pour l'Egypte :

Ad Referendum au Gouvernement
de S.M. Le Roi d'Égypte et du Soudan

Shahaya : *Shahaya*
J. Boctor *Sh. v. s.*

Pour l'Espagne :

Rafino
Rafino
José Garrido

Pour les Etats-Unis d'Amérique :

Walter D. Determan
Harvey Boyd Determan
Carl W. Hoeker

Pour l'Ethiopie :

Gabriel Tsh

7-11-62 : 6 :

Charles Portier Reynolds

Pour la France :

[Signature]

Maun

C. Luf.

Paul

J. Doubles

Monne

J. Mel

Pour la Grèce :

S. Kafiriz

Pour la République de Haïti :

ad referendum A. Addey

Pour l'Inde :

M. Muthy Ram

M. P. Rao

Sundaram

Pour la République d'Indonésie :

Alim

Pour l'Iran :

H. Fajr

H. Naïm

Pour l'Irlande :

M. W. O'Connell

Pour l'Islande :

J. M. Middel

G. Griem

Pour l'Etat d'Israël :

Yitzhak
Eliyahu

Pour l'Italie :

G. Guene
Luigi D'Amico

Pour le Japon :

Amakura

T. Shimoda

H. Shimokawa

Pour le Liban :

A. Shalhar
M. Zeldin Fouad

Pour le Luxembourg :



Pour le Mexique :

ad. referendum
H. Buchanan

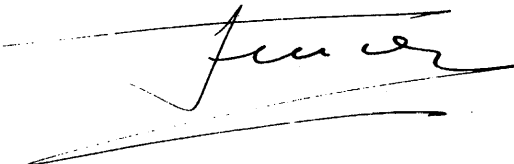
Pour Monaco :



Pour la Norvège :

Olaf Moe
N. J. Söberg
Odd J. Sandvei

Pour le Nicaragua :



Pour la Nouvelle-Zélande :

T. R. Clarkson

Pour le Pakistan :

M. H. Hussain

M. H. Hattar

M. A. Durrani

M. A. Durrani

Pour Panama :

Z. J. Vassani

Pour le Paraguay :

P. J. J. J. J. J.
M. A. Durrani

Pour les Pays-Bas, Surinam, Antilles
néerlandaises, Nouvelle-Guinée :

J. H. A. Boon

Kuyper

S. de Kuyper
W. J. P. Kuyper

W. J. P. Kuyper

U. J. Kuyper

J. Kuyper

Pour la République des Philippines :

J. Kuyper

W. J. P. Kuyper

Pour le Portugal :

David de Sousa

Pour les Protectorats français du Maroc et de la Tunisie :

W. S. S.

Pour la République fédérative populaire
de Yougoslavie :

Ad. Belobrenčanin
Charles Belobrenčanin
my Dr. Belobrenčanin

Pour le Royaume-Uni de la Grande Bretagne
et l'Irlande du Nord :

Robert Craig
A. H. Read.
C. F. Booth

Pour la Suède :

Eust. Hagenson

Thomas Örnqvist

Prengejer

Pour la Confédération Suisse :

Dr. T. Meyer

Jellies

A. Guldemann.

R. Junod

Pour la République Syrienne :

Abaza. Kich

Pour les Territoires des Etats-Unis d'Amérique :

Richard A. Solomon

Pour les Territoires d'Outre-mer de la République
Française et Territoires administrés comme tels :

J. Salunq
H. Salunq

Pour les Territoires portugais d'Outre-mer :

Maria Mantaria de Mucaly
João Soares de Paiva
Cristina Antunes Santos

Pour la Thaïlande :

Laichalutong Tongyai
Erb Buabunay

Pour la Turquie :

S. Dursun

Pour l'Union de l'Afrique du Sud et Territoire
du Sud-Ouest Africain :

Amey.

Pour l'Etat du Viêt-Nam :

Ng. v. Nhung

Pour la République Orientale de l'Uruguay :

Coronel (R) Hector Blanco
T/N Gastón Parraza

Pour les Etats-Unis de Vénézuéla :

[Signature]

Pour la Zone espagnole du Maroc et ensemble
des possessions espagnoles :

Leq. linc

Jon Garrido

APPENDIX

(See Chapter VII)

Columns of List I, Appendix 6, of the Radio Regulations which are to be filled in when submitting minimum information for inclusion in the Master Frequency Record.

1. Assigned frequency in kc/s.
- 2c. Date of putting into service.¹⁾
3. Call sign.
- 4a. Name, geographical position ²⁾ of the transmitting station and indication of country to which the station belongs.
- 4b. Localities or areas with which communication is established. ³⁾ ⁴⁾
5. Class of station and nature of service.⁵⁾
6. Class and bandwidth of emission. ⁶⁾
7. Description of transmission.⁷⁾
8. Power in kW (mean).
- 9a. Azimuth of maximum radiation of antenna in degrees (clockwise) from true North.
- 9c. Gain of the antenna in decibels (db) in direction of maximum radiation at the assigned frequency. ⁸⁾ ⁹⁾
10. Maximum hours of use of each circuit to each locality or area for which the frequency is utilized (G.M.T.).³⁾ ¹⁰⁾
13. Remarks.¹¹⁾

¹⁾ See Articles 33 and 34 of this Agreement.

²⁾ In degrees and minutes.

³⁾ Note change from Appendix 6, List I of the Radio Regulations.

⁴⁾ In cases in which an area is indicated instead of a locality, the region must be well defined and sufficiently small to make it easy to forecast the conditions of the use of

the frequency from the propagation point of view. Only the locality (localities) or area(s) for which the frequency is normally used should be indicated.

⁵⁾ Use the symbols in Appendix 7 to the Radio Regulations.

⁶⁾ See Article 2 of the Radio Regulations.

⁷⁾ See note *j*) of Appendix 1 to the Radio Regulations.

⁸⁾ See note *e*) of Appendix 1 to the Radio Regulations.

⁹⁾ Although this information would be very useful in calculating the risks of interference, Administrations need not furnish it unless it is easily available.

¹⁰⁾ As complementary information, indicate by a letter "I" any part of the period during which the operation of the circuit is intermittent.

¹¹⁾ Whenever possible and appropriate indicate the season and solar index when the frequency might be expected to be used and whether used during the day, night or transition period (at the transmitter).

ANNEXES

*The Annexes are published as separate volumes
numbered from II to VII*

FINAL PROTOCOL

annexed to the Agreement for the preparation and adoption of the new International Frequency List for the various services in the bands between 14 kc/s and 27 500 kc/s with a view to bringing into force the Atlantic City Table of Frequency Allocations.

At the time of signing the above-named Agreement, the undersigned delegates take note of the fact that the following reservations have been submitted by signatories of the Agreement :

ARGENTINE REPUBLIC

The Argentine Republic does not recognize any frequency-assignments that may be made directly or indirectly for any type of service, in any portion of the spectrum, for the Falkland Islands, the South Georgian Islands, the South Sandwich Islands and Argentine Antarctica between longitudes 25° and 74° West of Greenwich, South of latitude 60° South as far as the South Pole, over which territories the Argentine Republic exercises sovereign rights, if such assignments are made on behalf of any other country or countries. In any event, the Argentine Republic reserves the right to use as its own any radio frequencies that may be assigned in the above-mentioned conditions.

AUSTRIA

At present, Austria is occupied by four powers and consequently is severely impeded in the free exertion of her sovereign rights. Therefore, for as long as this situation lasts, we cannot accept the responsibility,

in signing the Final Acts of this Conference, for the full observation of the regulations and plans contained therein, although we are willing to apply them.

In addition, as Austria is bordering to countries, which in all probability, will not sign the Final Acts of this Conference, Austria has to reserve the right to make the necessary changes in the use of frequencies assigned in the plans to her services, in order to ensure their effective operations. In doing so, Austria will take the necessary steps, in order to avoid harmful interference with the services of other countries, as far as this will be possible in view of the existing restrictions.

In consequence of the aforesaid, Austria has also to reserve the right to submit to a future Administrative Radio Conference her requirements for those services which, because of the imposed restrictions, may not be implemented at present.

BURMA

The Union of Burma notes that a number of Members of the I.T.U. have not either signed these Final Acts or made material reservations. The Union of Burma reserves to itself all rights to take all steps it considers necessary to safeguard its essential existing and future Radio Services.

BRAZIL

The Brazilian Delegation,

considering :

- (a) that some delegations have indicated that their Administrations will neither accept nor apply the present Agreement ;
- (b) the great number of reservations presented ;

reserves :

the right to take, within the framework of the Convention and the Atlantic City Radio Regulations, 1947, whatever measure it deems necessary to maintain and protect its existing and proposed services, should difficulties arise from the non-observation by other Administrations of the provisions of the present Agreement.

CEYLON

I

The Delegation of Ceylon hereby makes a general reservation in respect of the new International Frequency List for Region 3 for the band 150 - 3900 kc/s, and also reserves to itself freedom of action within the band 3900 - 3950 kc/s. The reasons have been set out in a statement appearing in the minutes of the Plenary Assembly of 1 December 1951.

II

The Delegation of Ceylon further reserves its position in regard to any high frequency broadcasting plan which may be based on the Mexico City Basic Plan, as the latter does not provide for the actual immediate requirements of Ceylon.

CHILE

I

The Government of Chile, in respect of any frequency assignment for radio communications in the Antarctic, that may be made during the Extraordinary Administrative Radio Conference, makes a special reservation of all the rights which belong to it in the Chilean Antarctic, between longitudes 55° and 90° West of Greenwich. Consequently, Chile does not recognize any frequency assignments that may be made directly or indirectly for any kind of service in any portion of the spectrum for the said territory, over which Chile exercises sovereign rights, if such assignments are made to other powers. In any event, Chile reserves the right to use as its own the radio frequencies that may be assigned under the above-mentioned conditions.

II

In document 381 of the E.A.R.C. (1951), appears a reservation by Uruguay relating to the increase of power for three frequencies assigned to Chile since the I.A.A.R.C.

Since the acceptance by the E.A.R.C., of the reservation by Uruguay means that this Conference has not respected the sharing rules and standards approved by the I.A.A.R.C., Chile reserves the right, on the basis of the interference that may be caused by Uruguay, to use with a power of 1 kW any other frequency in the OR Plan assigned to any other country at the present Conference.

CHINA

In the Final Acts of the Region 3 Radio Administrative Conference, the Delegation of the Republic of China made a Reservation that, on account of the fact that the Region 3 Draft Plan contains only the requirements of her then existing services in the medium wave broadcasting band, the Chinese Administration will make considerable amendments and submit additional requirements to the Extraordinary Administrative Radio Conference in order to satisfy her national broadcasting interests.

Under various objections, her revised broadcasting plan which is submitted for the consideration of this Conference has not been agreed upon. In a spirit of sacrifice and international cooperation and in the hope of arriving at a mutually beneficial agreement, the Delegation of the Republic of China has made many concessions, such as reduction in power, shift of channels and even modification of the status of her stations which were already established in the Region 3 Draft Plan.

However, the Delegation of the Republic of China has to make it clear that the redrafted Medium Wave Broadcasting Plan in its present form can only be acceptable insofar as it meets her requirements, and furthermore, formally reserves the right to employ such power and frequencies as may later be necessary to accommodate her national interests. At the same time, the Chinese Administration will endeavour to the maximum possible extent to avoid harmful interference to the Broadcasting Services of other countries.

VATICAN CITY STATE

The Delegation of the Vatican City State reserves for its country the right to take any suitable steps (even, should it prove necessary,

out-of-band operation) to protect its services against intentional "jamming".

COLONIES, PROTECTORATES, OVERSEA TERRITORIES AND TERRITORIES
UNDER MANDATE OR TRUSTEESHIP OF THE UNITED KINGDOM
OF GREAT BRITAIN AND NORTHERN IRELAND

I

In view of the statements, declarations and reservations which have been made by the countries concerned in the new International Frequency List for Region 3, the Delegation of the Colonies, Protectorates, Oversea Territories and Territories under mandate or trusteeship of the United Kingdom of Great Britain and Northern Ireland deems it necessary to state that it reserves its right to take any necessary steps to protect its services in the event of any of the countries in Region 3 departing from the assignments made to them in the new International Frequency List for Region 3 to such an extent that harmful interference is caused to the services of the United Kingdom Colonies.

II

His Majesty's Government in the United Kingdom of Great Britain and Northern Ireland does not accept the reservations made by the Governments of Chile and of the Argentine Republic insofar as they dispute the sovereignty of His Majesty's Government over the Falkland Islands and the Falkland Islands Dependencies.

The Falkland Islands and the Falkland Islands Dependencies are and remain under British jurisdiction and that jurisdiction cannot be regarded as qualified in any way. The Falkland Islands and the Falkland Islands Dependencies are and remain an integral part of the Member of the Union comprising the Colonies, Protectorates, Oversea Territories and Territories under mandate or trusteeship of the United Kingdom of Great Britain and Northern Ireland on behalf of which the International Telecommunication Convention (Atlantic City, 1947) was signed and ratified and which is shown in Annex 1 to the Convention.

His Majesty's Government further wishes to make it clear that the acceptance by the Conference of a report wherein a technical arrangement is recorded or recommended for the Falkland Islands and Falkland Islands Dependencies could not in any event prejudice the position of either party in a dispute as to sovereignty.

CUBA

I

The Frequency Assignment Plan for Radiotelephone Coast Stations, adopted by this Conference, is unacceptable to Cuba, new countries having received a share in the only frequency complement assigned to Cuba, making it useless for our country.

II

Plans for a voluntary changeover of fixed, land mobile and broadcasting stations operating between 4000 kc/s and 27 500 kc/s to the bands allocated to those services in the Atlantic City Allocation Table.

Cuba cannot accept these plans, considering them wrong, demoralizing and disorderly, devoid of foundation either technical or practical, and likely to cause grave material loss to a good many Administrations and to the services using their stations ; in addition, Cuba will find it, in many cases, materially impossible to change its out-of-band assignments because the requisite space in the appropriate bands is either lacking or useless.

Hence Cuba reserves the right to use those frequencies which may be most suitable for operation of its services, Radiotelephone Coast Service, Fixed Service, Land Mobile Service and Broadcasting Service, between 4000 kc/s and 27 500 kc/s, when unable to use frequencies as laid down in the various plans.

DOMINICAN REPUBLIC

The Delegation of the Dominican Republic cannot accept the Frequency Assignment Plan for Coast Radio Telegraph Stations because it takes no account of the minimum requirements submitted by the Administration of the Republic at this Conference at the time of the revision of the draft Plan prepared by the P.F.B.

Consequently, the Dominican Republic does not consider itself in any way bound by the Plan and declares that although in making its assignments it will take into account the engineering principles adopted as a basis for the preparation of the Plan, it reserves its right to utilize for

its stations those frequencies which are least likely to cause or suffer interference, without taking into consideration the priorities established in the Plan.

EGYPT

The Egyptian Delegation regrets that the procedure which has been adopted of giving the appropriate status for the assignments in the new International Frequency List for the bands 3155-3400 kc/s and 3500-3950 kc/s for Regions 2 and 3 has not been applied to Region 1 and reserves the right of the Egyptian Administration to take any measures it deems necessary.

SPAIN

Taking account of the fact that Spain could not take part in the Mexico City and Florence/Rapallo Broadcasting Conferences, and was therefore unable to state its needs in that connection ;

since, in the plans prepared by the E.A.R.C. for radiotelegraph and radiotelephone coast stations in the bands between 4000 kc/s and 27 500 kc/s, Spain has not been assigned a number of frequencies equivalent to those notified and in use by its stations ;

the Delegation of Spain, at the time of signing the Final Acts of the E.A.R.C., formally states on behalf of its country :

1. that it does not consider itself bound by any broadcasting plans based on the Mexico City Plan nor by the provisions relating to the period of final adjustment in that service ;
2. that it does not consider itself bound by the frequency assignment plans prepared for radiotelegraph and radiotelephone coast stations in the bands between 4000 kc/s and 27 500 kc/s.

The Spanish Delegation wishes to state, however, that if it is obliged to use frequencies other than those assigned to Spain in the above plans, it will endeavour, as far as possible, to avoid harmful interference.

With respect to the Consol Radiobeacons of Lugo and Seville, the Spanish Delegation also declares that, in accordance with its statement made at the appropriate time in Committee 5, it will make the frequency changes as and when it can, but cannot guarantee to make them within

the prescribed time limit, because of the great difficulties entailed in altering the antennas and, above all, in drawing up new geographic charts and distributing them to ships and aircraft.

ETHIOPIA

The Delegation of Ethiopia in signing this Agreement does not in any way engage the Empire of Ethiopia with respect to the needs or requirements of Eritrea.

The Imperial Ethiopian Government will reserve for itself the right to submit the actual requirements of Eritrea in the various radio frequency plans which will be agreed upon or lists which will be prepared as a result of or in accordance with the terms of this Agreement.

These requirements will be submitted when the Government of the Federation of the Empire of Ethiopia and Eritrea will be in a position to ascertain them.

GREECE

At the moment of signing the Final Acts of the Extraordinary Administrative Radio Conference (Geneva, 1951), the Delegation of Greece formally declares that it is entirely impossible for Greece to accept the assignments planned for Greece in the Mexico City Plan as a basis for future high frequency broadcasting plans to be drawn up by the I.F.R.B., as laid down in Article 11 of the Agreement, because, when the Mexico City Basic Plan was being prepared, Greek requirements were not taken into account.

In the Mexico City Basic Plan, Greece is allotted 6 channel hours only, a state of affairs which bears no relation either to the transmissions now being made or to characteristics of the country, such as population, surface, geographical configuration, the numerous Greek communities scattered throughout the globe, and, above all, its large merchant marine—one of the world's most considerable fleets, plying on all the oceans.

The Florence/Rapallo Conference made no difficulty about acknowledging that Greece had been unfairly treated in the Mexico City Basic Plan.

The Greek Delegation hereby formally reserves all its Administration's rights in the matter.

INDIA

India notes that certain Members of the I.T.U. have declared their non-acceptance of the decisions of this Conference and consequently no effective coordination has been possible between the assignments made to India and the radio operations of her neighbours, non-signatories to these Final Acts.

India does not consider that the methods contained in Chapters III, IV and V for the Fixed, Land Mobile and Broadcasting Services would ensure her essential and minimum operations and secure for her a sufficient number of interference-free channels to meet even her existing operations. As her radio services are in the process of development, she reserves to herself full rights and freedom of action in the usage of frequencies to maintain and safeguard her existing and future national and international communications and Tropical Broadcasting Services.

The Frequency Assignment List for the Coast Radio Telegraph Stations, contained in Annex 6, satisfies only a small fraction of the essential minimum operations of India and has not taken into account a large part of assignments for these stations notified by her. India therefore reserves to herself full rights to utilize such frequencies as she considers necessary for maintaining and safeguarding her essential Coastal Telegraph Services.

India accepts and would be willing to work the Region 3 List contained in Annex 4, subject to satisfactory coordination, the Maritime Coast Telephone Plan contained in Annex 5, the Aeronautical Mobile Plan for the R Services contained in Annex 8 and the Aeronautical Mobile Plan for the OR Services contained in Annex 9. But in view of the fact that a number of services have no plans, that satisfactory coordination has not been possible between the Regional Lists and between adjacent parts of the spectrum allotted to different services, that certain Members of the I.T.U. have not signed these Final Acts and a number of others have made substantial reservations and it is now not possible to anticipate the effects of their action on the lists and plans envisaged in these Final Acts, and that the implementation of the new Allocation Tables in the different parts of the spectrum is completely interlinked, India reserves to herself full rights and freedom of action regarding implementation.

India does not recognize any frequency assignments that may be made directly or indirectly for any type of service in any part of the spectrum to any other Administration or organisation, national or

international, for stations in territories which form legally parts of India and reserves to herself full rights and freedom of action regarding such frequency assignments. In particular as Jammu and Kashmir have legally acceded to India and form part of India, she will not recognize any frequency assignments made to stations in Jammu and Kashmir in favour of any other Administration or organisation.

REPUBLIC OF INDONESIA

The Head of the Indonesian Delegation formally declares that his Administration, by signature of the Agreement on its behalf, reserves its rights with respect to the use of the term " Netherlands New Guinea " and its abbreviation " NGuiH " in several of the Annexes, in view of the fact that Western New Guinea is still a disputed territory.

IRAN

Whereas :

1. since Iran was not present at the Geneva Conference, 1949 (Region 3), certain bands have been totally or partially occupied and, as a result, the Iranian Delegation present at this Conference has had some of its minimum basic requirements refused ;
2. on some of the bands allocated to our Administration there is interference which it has been impossible to eliminate ;

the Delegation of Iran hereby makes a general reservation to the plans and lists prepared by this Conference.

IRELAND

The Delegation of Ireland has noted that certain Administrations in Region 1 have declared their unwillingness to accept and apply the terms of the Final Agreement relative to regional frequencies.

The Irish Administration therefore reserves the right to take any measures, within the framework of the International Telecommunication Convention and the Atlantic City Radio Regulations, necessary to safeguard its radio services thereby affected.

STATE OF ISRAEL

I

The Delegation of the State of Israel wishes to reiterate its statement made at the closure of the Florence/Rapallo High Frequency Broadcasting Conference to the effect that it cannot accept the assignments for high frequency broadcasting made to the State of Israel under the Florence/Rapallo Assignment Plan for high frequency broadcasting as a basis for future planning by the I.F.R.B. as envisaged in the Agreement.

II

In view of the fact that :

- (a) a number of countries will not become signatories to the Agreement,
- (b) a substantial number of countries made reservations which might seriously affect the practicability of implementation of the plans and lists and the provisions of the Agreement regarding the accommodation of services in the appropriate Atlantic City bands,

the Delegation of the State of Israel reserves its right of action—within the framework of the Convention and the Radio Regulations of Atlantic City, 1947—to take any appropriate measure to safeguard the satisfactory operation of its radio services.

III

The Delegation of the State of Israel cannot accept the reservations made by the Delegations of Egypt, Syria, Lebanon and Saudi Arabia in connection with Resolution No. 181 (11) adopted by the United Nations General Assembly of 29 November 1947, on Palestine, and reserves the right of its Government to take appropriate action should it be necessary to safeguard the interests of the State of Israel regarding the usage of frequency assignments made to it by the Extraordinary Administrative Radio Conference.

It must be pointed out that the reference to the above resolution by the Delegations of Egypt, Syria, Lebanon and Saudi Arabia, does not specify the intent or the substance of their reservations, they refer to a territory not under their jurisdiction and are of a nature beyond the competence of the Conference and the International Telecommunication Union.

ITALY

Italy reserves the right to take any measures it deems necessary to protect all its radio services in the event that they are compromised as a result of the application of the reservations of the other signatory countries.

JAPAN

The implementation of Appendix 3 to the Atlantic City Radio Regulations requires the improvement of the frequency stability of the existing radio transmitters in conformity with the frequency tolerances in Column 3 of that Appendix within the short period of only one year. This improvement necessitates the replacement of certain types of transmitters, especially those of ship stations, numbering more than four

thousand in Japan. This replacement is very difficult for Japan from the economical standpoint even if it is not impossible technically.

Considering these circumstances, the Japanese Delegation, by the instruction of its Administration, reserves the right to suspend the date of the implementation of the frequency tolerances specified in Column 3 of Appendix 3 to the Atlantic City Radio Regulations until 1st January 1954.

MEXICO

Mexico reserves its right to implement, within its territory, the regional bands 2335-2495 kc/s and 3240-3400 kc/s, for the Tropical Broadcasting Service, as laid down in the Atlantic City Convention, as other Region 2 countries have already done, if it is unable to conclude the bilateral or multilateral agreements referred to in Article 26 of the Geneva Agreement, 1951. In any case, Mexico will endeavour to safeguard the rights of other Region 2 Administrations as regards any harmful interference which might result from the action outlined above.

PAKISTAN

I

In signing the Final Acts of the Extraordinary Administrative Radio Conference (Geneva, 1951), the Pakistan Delegation wishes to draw the attention of all Member States to Pakistan's exceptional position as a new State and her special needs for adequate radio frequencies for her essential radio services. Pakistan is divided into two parts and the only means of intercommunication between the two parts is by radio.

In view of the above and the fact that in the High Frequency Broadcasting, Fixed and Land Mobile Services there are no plans which will guarantee interference-free operation for her essential services during the interim and final adjustment periods, Pakistan reserves her position

with regard to the provisions as contained in the Final Acts and Chapter IV, Article 12, Sections I, II and III, and Chapter V, Articles 16 and 17.

II

Considering :

1. that certain delegations to the E.A.R.C. have reserved the position of their Administrations with respect to the assignments in the band 150 - 3950 kc/s for Region 3 ;
2. in view of possible harmful interference from the radio services of such Administrations ;

the Pakistan Delegation reserves the right to take such action as may be necessary to afford protection to her essential Broadcasting and other services ; in so doing, Pakistan will endeavour to avoid harmful interference to the radio services of other Administrations.

III

In the case of frequencies for Jammu and Kashmir State, which is a disputed territory under consideration of the United Nations Organisation, allotments made for such territories should be kept in safe custody of the United Nations Organisation till final decision.

FEDERAL PEOPLE'S REPUBLIC OF YUGOSLAVIA

In view of the immediate proximity of countries which have stated that they do not agree with the decisions reached by the E.A.R.C. and which, as a consequence, will not sign the Agreement of that Conference, our Administration is obliged, in order to ensure satisfactory operation of its radiocommunication services, to reserve the right to make any changes that may be necessary in the frequencies assigned in the plans, and to make any modifications to the assignments themselves which it may deem necessary, where appropriate.

The Yugoslav Administration will take all practicable measures to avoid, as far as possible, causing or suffering harmful interference

SWISS CONFEDERATION

Observing :

that, under the provisions of the present Agreement, the date entered in column 2c in the frequency lists prepared by this Conference and the Interim Frequency List, and subsequently in the International Frequency List, as the date of putting into service of the frequencies of assignments that have been displaced, will be the date of their transfer, and that, as a result, they will be placed in an unfavourable position in relation to assignments which, for fortuitous reasons, it has been possible to maintain on their former frequencies ;

bearing in mind :

the fact that the possibility of harmful interference will greatly increase during the evolutionary phase of implementation of the Atlantic City Frequency Allocation Table and may continue to exist even after the final adjustment period, and that in case of dispute Administrations might be led, in the last resort, to refer to the date of putting into service of their frequencies ;

and, in particular :

- (a) that Switzerland utilizes a great number of out-of-band frequencies (30 %) which will have to be transferred into the appropriate bands ;
- (b) that these frequencies are assigned to stations dealing with international traffic and were notified and put into service long ago ;
- (c) that these frequencies have been in daily use for many years ;
- (d) that Switzerland has no stand-by frequencies in the appropriate bands ;

the Swiss Delegation reserves for its country the right, when its assignments are being transferred, to assert the claim to antecedence of the date of entry into service of the frequencies it utilized before the transfer, in relation to frequencies whose date of entry into service is more recent.

OVERSEA TERRITORIES OF THE FRENCH REPUBLIC AND TERRITORIES
ADMINISTERED AS SUCH

The Delegation of the Oversea Territories of the French Republic and Territories administered as such, being unable to accept Section II of Article 8 of Chapter II and Annex 6 concerning radiotelegraph coast stations, reserves for its Administration the right to make any modifications it may deem desirable to the transmitting characteristics of its radiotelegraph coast stations, in order to obtain satisfactory service.

PORTUGUESE OVERSEA TERRITORIES

The Delegation of the Portuguese Oversea Territories states that its Administration, should its radio services be subject to harmful interference by stations of Administrations not respecting the plans or frequency lists resulting from this Conference, reserves, within the framework of the Telecommunication Convention and the Radio Regulations, every right to take the measures necessary for safeguarding the operation of the said services.

TURKEY

In a spirit of collaboration and international cooperation, Turkey has accepted and approved all the decisions taken during the work of the E.A.R.C. However, in view of the immediate proximity of the countries which are not willing to sign the Final Acts of the E.A.R.C. and hence to apply the resultant decisions, Turkey is obliged to reserve the right to take all the necessary measures to safeguard the satisfactory operation of its radio services in case its stations should be interfered with by the powerful stations of non-signatory countries and of countries that do not apply the decisions of the E.A.R.C.

In signing the Final Acts of the E.A.R.C., the Turkish Administration is prepared to apply all the Resolutions and Recommendations contained in them to the best of its ability and wherever practicable.

ORIENTAL REPUBLIC OF URUGUAY

The Delegation of Uruguay states that it approves the Aeronautical OR Plan, but at the same time wishes to make it quite clear that, should emergencies arise in the operation of its service, it reserves the right not to adhere strictly to the power limitations laid down in the Plan on the frequencies :

4745.5 kc/s

6738 kc/s

9035 kc/s

Whenever Uruguay is obliged to use higher power on these frequencies, the maximum of 1 kW permitted by the Plan will not be exceeded.

STATE OF VIET-NAM

The Administration of Viet-Nam reserves its freedom of action, should assignments made for Viet-Nam in the plans be interfered with by a country not observing the provisions of the Agreement.

It reserves its acceptance of the provisions governing the period of final adjustment (account being taken of Article 16, paragraph 6, Chapter V) because of the numerous out-of-band frequencies it needs (25% of its frequencies are out-of-band), frequencies which, in spite of every effort, it has been unable to shift.

SPANISH ZONE OF MOROCCO AND THE TOTALITY OF SPANISH POSSESSIONS

- (a) Taking account of the fact that Spanish Morocco and Spanish Colonies could not take part in the Mexico City and Florence/Rapallo Broadcasting Conferences, and were therefore unable to state their needs in that connection ;
- (b) since, moreover, in the plans prepared by the E.A.R.C. for radio-telephone and radiotelegraph coast stations, in the bands 4000-27 500 kc/s, Spanish Morocco and Spanish Colonies have not been assigned a number of frequencies equivalent to those notified and in use by its stations ;

the Delegation of Spanish Morocco and Spanish Colonies formally states, at the time of signing the Final Acts of the E.A.R.C., on behalf of those it represents :

1. that it does not consider itself bound by the Broadcasting Plans based on the Mexico City Plans, nor by the provisions relating to the period of final adjustment in that service ;
2. that it does not consider itself bound by the frequency assignment plans and list prepared for radiotelephone and radiotelegraph coast stations in the bands 4000-27 500 kc/s.

Nevertheless, it wishes to state that if it is obliged to use frequencies other than those assigned to Spanish Morocco and Spanish Colonies in previous plans, it will endeavour, as far as possible, to avoid harmful interference.

KINGDOM OF SAUDI ARABIA, EGYPT, LEBANON
AND SYRIAN REPUBLIC

The Delegations of Saudi Arabia, of Egypt, of Lebanon and of the Syrian Republic hereby declare their inability to accept any decisions taken by the Conference relative to frequency assignments which might not be compatible with the principles deriving from Resolution No. 181 (11), adopted by the United Nations General Assembly, on 29 November 1947, on Palestine.

KINGDOM OF SAUDI ARABIA, LEBANON
AND SYRIAN REPUBLIC

The Administrations of Saudi Arabia, of Lebanon and of the Syrian Republic reserve full rights, within the Telecommunication Convention and Radio Regulations, to take any measures which may appear necessary to safeguard their present operations and the future demands due to the rapid development in their radio services and to use the frequencies they deem appropriate.

ARGENTINE REPUBLIC, BOLIVIA, BRAZIL AND PARAGUAY

Since the Delegation of the Republic of Chile has submitted a reservation relative to the use of any frequency assigned to any other country in the Aeronautical Mobile OR Service Plan, if the Oriental Republic of Uruguay should cause Chile interference in using three specific frequencies, the Delegations of the Argentine Republic, the Republic of Bolivia, the United States of Brazil, and the Republic of Paraguay are obliged by the eventualities which might arise as a result of Chile's reservation to reserve their right to ensure the continuity and efficiency of their established services by using any frequency assigned to Chile in the above-mentioned plan.

RESERVATION RELATING TO THE NEW INTERNATIONAL FREQUENCY LIST FOR REGION 1

Since certain Members of the Union located in Region 1 as defined in 101 of the Atlantic City Radio Regulations and represented at the Extraordinary Administrative Radio Conference have declared that they are not prepared to accept the decisions of the Conference, the following countries reserve the right, in relation to the new International Frequency List for Region 1, to take such action as they may deem fit, within the framework of the International Telecommunication Convention and the Atlantic City Radio Regulations, to maintain and protect their existing and proposed services in the bands 255-285 kc/s (Aeronautical Radio-navigation Service only), 285-415 kc/s and 1605-3950 kc/s :

Belgium ; Colonies, Protectorates, Oversea Territories under mandate or trusteeship of the United Kingdom of Great Britain and Northern Ireland (in respect of the European area of Region 1 only) ; Denmark ; Spain ; France ; Greece ; Italy ; Luxembourg , Monaco ; Norway ; Netherlands, Surinam, Netherlands Antilles and New Guinea ; Portugal ; French Protectorates of Morocco and Tunisia ; United Kingdom of Great Britain and Northern Ireland ; Sweden ; Swiss Confederation ; Spanish Zone of Morocco and the Totality of Spanish Possessions.

DECLARATION

The following countries :

Kingdom of Saudi Arabia ; Belgium ; Brazil ; China ; Vatican City State ; Republic of Colombia ; Colonies, Protectorates, Oversea Territories under mandate or trusteeship of the United Kingdom of Great Britain and Northern Ireland ; Costa Rica ; Cuba ; Denmark ; Dominican Republic ; Egypt ; Spain ; Ethiopia ; France ; Republic of Indonesia ; Iran ; Italy ; Lebanon ; Luxembourg ; Monaco ; Nicaragua ; Norway ; Pakistan ; Paraguay ; Netherlands, Surinam, Netherlands Antilles and New Guinea ; Portugal ; French Protectorates of Morocco and Tunisia ; Federal People's Republic of Yugoslavia ; United Kingdom of Great Britain and Northern Ireland ; Sweden ; Swiss Confederation ; Syrian Republic ; Oversea Territories of the French Republic and Territories administered as such ; Portuguese Oversea Territories ; Union of South Africa and Territory of South West Africa ; United States of Venezuela ; State of Viet-Nam ;

hereby declare that they will not accept any reservation incompatible with the basic provisions of the Convention and Regulations.

In witness whereof, the delegates of the countries Members of the Union, participants in the Extraordinary Administrative Radio Conference of Geneva (1951), have, in the names of their respective countries, signed the present Final Protocol in each of the English, French and Spanish languages, in a single copy, in which, in case of dispute, the French text shall be authentic and which shall remain in the archives of the International Telecommunication Union and one certified copy of which shall be forwarded to each signatory country.

Done at Geneva, the third of December 1951.

The signatures following the Final Protocol are the same as those which follow the Agreement.

RESOLUTIONS AND RECOMMENDATIONS

RESOLUTION No. 1

Relating to the Bringing into Force of the Plans and Lists adopted by the Conference

The Extraordinary Administrative Radio Conference,

referring :

to the frequency assignment and allotment plans and lists adopted by this Conference and

considering :

that it is desirable to clarify the procedure to be followed in the event of conflicts between assignments which, bearing the same dates, enjoy equal rights to protection from harmful interference, and

recognizing :

(a) that the number of requirements in relation to the available spectrum space has precluded, in these plans and lists, the making of assignments which in all cases will be free from the possibility of harmful interference and that, in the regional lists, there are possibilities of harmful interference between some assignments in different Regions ;

(b) that, in many such cases, harmful interference may be avoided by suitable arrangements between the interested Administrations, such as time sharing, but that it may, in other cases, require adjustments of the assigned frequencies ;

(c) that the I.F.R.B., as a centralizing and advisory body, would play a useful role in the clearance of harmful interference, but that the assistance which it would give may be limited by the practical possibilities imposed by the plans and lists themselves ;

resolves :

1. that Administrations shall make every endeavour to clear harmful interference to operations conducted in conformity with the provisions of the plans and lists mentioned above, by direct negotiation with the other Administrations involved, in accordance with the procedure of Article 14 of the Radio Regulations ;

2. that the I.F.R.B. should be consulted in cases where changes of frequency are envisaged, and shall be notified of any frequency changes which result from the negotiations mentioned in 1 above ;

3. that, should direct negotiations between Administrations fail to solve a particular problem, the I.F.R.B., upon request, shall endeavour to give such advice and assistance as it finds to be practicable according to the information at its disposal and within the technical limitations imposed by the plan or list concerned.

RESOLUTION No. 2

Relating to the Entry into Force of the Band between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2)

The Extraordinary Administrative Radio Conference,

considering :

(a) that the date for the entry into force of the Atlantic City Table of Frequency Allocations for the portion of the spectrum between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s will be determined by a future Administrative Radio Conference ;

(b) that the movement of assignments to conform to the new International Frequency List for the regional bands between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2) is necessarily inter-related with the programme of implementation for the spectrum above 3950 kc/s (4000 kc/s

Region 2), and that therefore it is not possible for the present Conference to prescribe a date for the completion of this process ;

(c) that it is nevertheless desirable to bring assignments into conformity with the new International Frequency List for the band between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2) as soon as possible ;

resolves :

that administrations shall expedite as far as may be practicable the process of bringing assignments into conformity with the new International Frequency List for the band between 2850 kc/s and 3950 kc/s (4000 kc/s Region 2), and, whenever it may be appropriate to do so, shall enter into special arrangements to accomplish this objective.

RESOLUTION No. 3

Relating to the Fixed, Land Mobile and Broadcasting Services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s

The Extraordinary Administrative Radio Conference,

considering :

(a) Administrative Council Resolution No. 199 and in particular the limited time provided in that Resolution for this Conference to complete its tasks ;

(b) Documents 20 (revised), 22, 125, 129, 130, 131, 132, 140, 172 and the volumes containing the proposals of Administrations and of the I.F.R.B. for suitable methods of bringing the entire Atlantic City Table of Frequency Allocations into force ;

(c) Documents 105, 163, 181, 184 and 205 relating to the preparation of draft plans for the High Frequency Broadcasting Service ;

(d) the statements of delegations to this Conference, which are annexed to Document 213 ;

(e) the problems involved in accommodating all assignments within the appropriate Atlantic City bands by the interim procedure provided for in Article 12 of the Agreement ;

(f) that many delegations to this Conference expressed the opinion that this procedure should be replaced as early as possible by detailed frequency lists, planned on the basis of engineering principles and equity ;

(g) that several methods for evolving frequency lists or plans for the Fixed, Land Mobile and Broadcasting Services submitted to, or prepared at, this Conference, as well as the Mexico City Basic Plan and technical principles adopted by the Broadcasting Conferences and by the Provisional Frequency Board, deserve further consideration ;

(h) that it is desirable for each service to be contained within its appropriate Atlantic City bands at the earliest date practicable ;

(i) that the spectrum space available to the Fixed Service was considerably reduced by the Atlantic City Radio Conference ;

(j) that it is of particular importance that the Aeronautical and Maritime Mobile Service frequencies essential for the safety of life should not be subjected to harmful interference from other services ;

(k) that at the beginning of and during the final adjustment period provided for in Article 16 of the Agreement, there may be some out-of-band assignments still not transferred to in-band frequencies, and that there may also be some unsatisfied actual new requirements, particularly for countries with underdeveloped radiocommunication services ;

(l) that knowledge of the actual use which is being made of the spectrum is essential to enable Administrations to select frequencies necessary for the transfer of their out-of-band assignments and for the accommodation of their new assignments ;

recognizing :

that Administrations, whose countries are underdeveloped in the radiocommunication field, may need special assistance in satisfying their essential additional frequency requirements ;

requests Administrations :

1. to give special attention to assisting Administrations of countries underdeveloped in the radiocommunication field to enable their actual current frequency requirements to be satisfied, as far as possible, both by offering advice on the possible solution of technical problems, and, in appropriate cases, by providing assistance in monitoring ;

2. to apply, to the extent practicable, the technical principles developed, and data derived, during the course of the work of the Provisional Frequency Board and of the High Frequency Broadcasting Conferences, and the recommendations of the C.C.I.R., when making frequency assignments ;

3. to supply the I.F.R.B. with summaries of monitoring information relating to the present usage of frequencies, having regard to Article 18 and Appendix C of the Radio Regulations ;

4. to undertake certain monitoring at the request of the I.F.R.B. when the latter requires additional information for the solution of special problems ;

5. to study and to submit to the Administrative Radio Conference which will consider the Draft International Frequency List, any methods which they consider might improve the use of this part of the spectrum ;

directs the I.F.R.B. :

6. to continue to study all the methods submitted to the E.A.R.C. for the preparation of draft frequency lists, or plans, for the Fixed, Land Mobile and Tropical Zone Broadcasting Services and, when preparing the Draft International Frequency List, to apply, as far as possible, the technical principles and standards contained in these methods, in addition to those developed by the Provisional Frequency Board, or recommended by the C.C.I.R. ;

7. to submit to the Administrative Radio Conference which will consider the Draft International Frequency List any compromise method,

or methods, which it considers might improve the use of this part of the spectrum ;

8. to give special attention to the more difficult problems arising in connection with the accommodation of frequency requirements which the countries consider essential, and to apply, as far as possible, the technical principles and standards referred to in paragraph 6 above ;

9. to initiate requests to Administrations to make slight adjustments in specific frequency assignments, or to effect interchanges in the use of frequencies, where such action would facilitate the accommodation of the essential frequency requirements ;

10. to compile, in an appropriate form, periodic summaries of monitoring information, to be published by the Secretary General ;

urges :

11. Administrations and the I.F.R.B. to cooperate in solving the problems of transferring existing out-of-band assignments into the appropriate bands and of establishing new assignments within these bands, in order to facilitate the eventual bringing into force of the Atlantic City Table of Frequency Allocations at the earliest date practicable.

RESOLUTION No. 4

Concerning Assistance to the Aeronautical Mobile Service in Moving into its Allocated Bands

The Extraordinary Administrative Radio Conference,

considering :

(a) that it was recognised as long ago as the Atlantic City Radio Conference (1947) that frequencies available to the Aeronautical Services under the Cairo Radio Regulations (1938) were inadequate and that

aviation had already developed to a stage where exclusive frequency bands, making possible flexibility, planning and coordination on a world-wide basis, were essential ;

(b) that the improved performance of modern aircraft and the growth of air transport during the period of four years that has elapsed since the Atlantic City Conference have aggravated the situation which has now become critical ;

(c) that experience has shown that the handling of modern high-speed aircraft, particularly in areas of high traffic density, requires direct communication between aircraft pilots and air traffic controllers and that this requirement, which can only be provided at the present by radio-telephony, has been recognised in the I.A.A.R.C. Plan ;

(d) that the safety and regularity of aircraft operations are dependent upon rapid and reliable air-ground communications, free from harmful interference, and that with increasing aircraft speeds and air traffic density this consideration becomes daily more important ;

(e) that the I.A.A.R.C. Plan satisfies as far as possible, within the bands allocated by the Atlantic City Conference to the Aeronautical Mobile Service, the requirements outlined in the foregoing considerations ; and that the realisation of the advantages of the I.A.A.R.C. Plan depends upon the early availability of the frequencies allotted therein ;

resolves :

that all Administrations, individually and collectively, shall take every practicable measure :

1. to enable the Aeronautical Mobile Service to move quickly to its allotted frequencies in a rational and orderly manner ;
2. to avoid harmful interference to this service during the period of movement into the appropriate bands.

RESOLUTION No. 5

Relating to the Study of Common Working Frequencies for the Maritime Mobile Telephone Service in the Band 2000-2850 kc/s

The Extraordinary Administrative Radio Conference,

considering :

that as a result of the adoption at Atlantic City of 2182 kc/s as the world-wide distress and calling frequency for the Maritime Mobile Telephone Service, it may be necessary to provide common working frequencies for this service on a world-wide basis in the band 2000-2850 kc/s ;

resolves :

that Administrations should study this problem in preparation for the next Administrative Radio Conference.

RESOLUTION No. 6

Relating to the Guard Band for 2182 kc/s in Region 2

The Extraordinary Administrative Radio Conference,

considering :

that the new International Frequency List for Region 2 does not contain any assignments between 2172 kc/s and 2192 kc/s which are considered capable of causing harmful interference to the use which is stipulated in 148 of the Radio Regulations for the frequency 2182 kc/s ;

resolves :

that Administrations in Region 2 will, in the the future, avoid assigning frequencies between 2172 kc/s and 2192 kc/s to their stations if such assignments are capable of causing harmful interference to the use of the frequency 2182 kc/s as stipulated in the Radio Regulations.

RESOLUTION No. 7

Relating to the Provisions adopted for the Bands 1800-2000 kc/s and 3500-4000 kc/s at the Buenos Aires Regional Technical Meeting (1951)

The Extraordinary Administrative Radio Conference,

considering :

(a) the desire expressed by some of the Administrations of Region 2 that a detailed specification be given for the utilization among themselves of the bands 1800-2000 kc/s and 3500-4000 kc/s which are allocated in Region 2 to the Amateur Service, jointly with other services ; and

(b) the resolution of the Buenos Aires Regional Technical Meeting (1951) concerning this matter ;

resolves :

1. to take note of the agreement made by the Administrations of Argentine, Bolivia, Brazil, Chile, Paraguay and Uruguay with respect to the following allocations in the bands 1800-2000 kc/s and 3500-4000 kc/s :

1800-1850 kc/s : Amateur Service ;

1850-2000 kc/s : Fixed, Mobile (except Aeronautical Mobile) and Radionavigation Services;

3500-3750 kc/s : Amateur Service ;

3750-4000 kc/s : Fixed and Mobile (except Aeronautical Mobile) Services ;

2. that the maximum power to be used by amateurs in the countries mentioned in paragraph 1 above, shall be 1 kW (d.c.) measured at the input to the final stage of the transmitter ;

and invites :

the I.F.R.B. to take note of this Resolution.

RESOLUTION No. 8

Relating to the Publication of special Lists of Coast and Ship Stations for Regions 2 and 3

The Extraordinary Administrative Radio Conference,

considering :

the large number of coast and ship stations in Regions 2 and 3 which will have to change their frequency assignments in order to bring them into conformity with the new International Frequency List,

requests :

the Secretary General to arrange for the publication of special lists of coast and ship stations in Regions 2 and 3 before the dates on which the new assignments to these stations are to be brought into force, setting out the new frequency assignments and the dates on which they will come into effect.

The List for Region 2 should cover the band 415-535 kc/s, and that for Region 3 should cover the bands 405-535 kc/s and 1605-3950 kc/s.

In the case of Region 2, the new particulars of direction-finding stations for 410 kc/s should be published at the same time in part B of the List of Radiolocation Stations.

RESOLUTION No. 9

Relating to the Dissolution of the Provisional Frequency Board

The Extraordinary Administrative Radio Conference,

considering :

(a) that the Atlantic City "Resolution Relating to the Preparation of the new International Frequency List" delegated the preparation of drafts of this List to the Provisional Frequency Board (P.F.B.) ;

(b) that paragraph 21 of the Atlantic City "Resolution Relating to the Preparation of the new International Frequency List" states that "the P.F.B. shall dissolve on the date when the new List is accepted and approved by the Special Conference..." ;

(c) that the Atlantic City "Resolution Relating to Participation in the Provisional Frequency Board of Members of the International Frequency Registration Board", provides that until the new International Frequency List is adopted by the Special Conference, the duties of the members of the I.F.R.B. shall conform to those laid down in the Resolution relating to the Preparation of the new International Frequency List, except for the preparatory arrangements necessary for the future duties mentioned in that Resolution ;

(d) that Article 47 of the Radio Regulations states that certain portions of the Regulations will be delayed in coming into force until the effective date of the new International Frequency List as determined by a special Administrative Radio Conference ;

(e) that the Administrative Council of the I.T.U. at its fourth session adopted Resolution No. 154, the text of which appears as an appendix to the present Resolution ;

(f) that the Administrative Council at its fifth session adopted Resolution No. 199 proposing that the Extraordinary Administrative Radio Conference be held on 16 August 1951, to consider the Agenda specified in that Resolution ;

(g) that the decisions of the present Conference will bring into force certain parts of the Atlantic City Table of Frequency Allocations, thus permitting the I.F.R.B. to assume its normal functions in respect of these parts of the Table ;

(h) that this Conference has entrusted the I.F.R.B. with the additional tasks as defined in the Agreement, in particular those relating to the preparation of the Draft International Frequency List for the parts of the spectrum not covered by paragraph (g) above ;

(i) that, under item 4 of the Agenda, the Extraordinary Administrative Radio Conference was charged as follows :

“ To take all necessary measures for the dissolution of the P.F.B. amending as necessary, in the light of the decisions taken under paragraphs 3(a), (b), (c) and (d) [of its Agenda], paragraph 21 of the Atlantic City Resolution relating to the Preparation of the new International Frequency List”;

resolves:

1. that the Provisional Frequency Board (P.F.B.) is hereby dissolved and the Atlantic City “ Resolution Relating to the Preparation of the New International Frequency List ” is hereby abrogated, as from the date of the entry into force of the Agreement ;

2. that the Atlantic City “ Resolution Relating to Participation in the Provisional Frequency Board of Members of the International Frequency Registration Board ” is hereby abrogated, as from the same date.

ANNEX TO RESOLUTION No. 9

Resolution No. 154 of the Administrative Council

PROVISIONAL FREQUENCY BOARD

The Administrative Council,

referring to Resolution No. 74 concerning the P.F.B.,

after examining the Report of the Chairman of the P.F.B. (Document 367/CA4),

having paid close attention to the replies of the Chairman of the P.F.B. to the various questions asked by the members of the Council, and bearing in mind the exchanges of opinion that took place on the subject ;

considering:

1. that it would be pointless to convene on 17 October 1949 the Special Radio Conference which was to have met on that date, in view of the position of the work of the P.F.B. and the various related conferences ;

2. that it is imperative to take the necessary steps to ensure the preparation of an international frequency list so that the Table of Frequency

Allocations of the Atlantic City Radio Regulations may be implemented as soon as possible ;

3. that though the P.F.B. has not yet been able to accomplish the whole of the task entrusted to it, it has nevertheless achieved concrete results ;

4. that from these results it may be expected that the P.F.B. will be able to accomplish its task, except as regards certain portions of the spectrum within a given time ;

5. that no agreement seems likely regarding these portions of the spectrum if the directives of the resolution relating to the preparation of the new International Frequency List are applied ;

6. that, on the other hand, the P.F.B. cannot change the directives of the said resolution ;

proposes :

1. that an extraordinary radio conference be convened in accordance with the provisions of Article 11, paragraph 3 (1) (c) of the Atlantic City Convention ;

2. that the agenda of this conference include, in addition to the task given to the Special Conference contemplated by the resolution relating to the preparation of the new International Frequency List adopted by the International Radio Conference of Atlantic City, the following items :

(a) completion of the preparation of the said list as regards those portions of the spectrum where the problem gives rise to difficulties which cannot be solved by the P.F.B. within its terms of reference, but taking into account the work and the recommendations of the P.F.B. ;

(b) decision, when approving the new International Frequency List, on the time and manner of entry into force of the list ;

resolves :

1. to adopt 28 February 1950 as the time-limit for the work of the P.F.B. ;

2. to address a further urgent appeal to Members of the Union, requesting them to instruct their delegations to do their utmost, by

contributing wholeheartedly to the work of the P.F.B. and in particular by reducing their frequency requirements to the utmost possible extent, to finish this work at the latest by the abovementioned time-limit ;

3. to invite the Members of the Union to withdraw their national delegations at that date ;

4. that the International Members of the P.F.B. shall be requested, as from 1 March 1950 :

— to assemble the observations and proposals made by the Members of the Union,

(a) on the draft Frequency List prepared by the P.F.B. ;

(b) on the plans and lists prepared by the Regional and service conferences ;

— to prepare all necessary documentation for the proposed conference ;

5. that the Secretary General shall put at the disposal of the P.F.B. the material means strictly necessary for the continuation of its work, until the date mentioned in paragraph 1 above ; after this date, these means will be limited to those indispensable for the work mentioned in paragraph 4 above ;

6. that the last part of the draft list prepared by the P.F.B. shall be sent, through the Secretary General, to the Administrations of the Members of the Union by 31 March 1950 at the latest ;

7. to invite Administrations to forward their observations and proposals before 1 June 1950 ;

directs the Secretary General :

1. to take the necessary steps immediately, in conformity with the provisions of paragraph 3 (1) (c) of Article 11 of the Convention, for convening this conference at Geneva on 1 September 1950 ;

2. to invite Administrations to communicate their replies within two months from the date this resolution is sent out by the Secretary General. Administrations which have not replied within the prescribed time-limit shall be considered to have given their assent.

RESOLUTION No. 10

Relating to the Discharge of the Tasks Entrusted to the I.F.R.B. under the Agreement, and to the Staff and Budget Estimates of the I.F.R.B.

The Extraordinary Administrative Radio Conference,

considering :

(a) that, under its Agenda proposed by the Administrative Council in Resolution No. 199 and approved by the majority of the Members of the Union, it has "to determine..., to what extent the I.F.R.B. shall, after the end of the Conference, assume the functions assigned to it in Articles 10 and 11 of the Radio Regulations ; to define any additional tasks which the Conference may consider necessary, in the light of its decisions, to entrust to the I.F.R.B. and to forward to the Administrative Council of the Union all information and recommendations needed to guide it when taking any administrative and financial action which may subsequently be necessary ";

(b) that these functions and additional tasks are defined in the Agreement ;

(c) that the I.F.R.B. has prepared provisional estimates of the cost of discharging the additional tasks defined in the Agreement (see Conference Document 315) ;

(d) that it is clear from these estimates that additional credits must be made available to the I.F.R.B. to enable it to discharge these tasks ;

noting :

that the cost of the work to be undertaken in 1952 prior to the seventh session of the Administrative Council will be covered by an extraordinary credit of 200,000 Swiss francs, which has already been provided by the Council to cover the cost of completing the work of this Conference (apart from the publication of the Final Acts) during the period 1 January to 30 June 1952 ;

resolves :

1. that the I.F.R.B. shall assume the functions with which it is entrusted under the Agreement, on the date at which this Agreement comes into force ;

2. that the Administrative Council be invited to examine, during its seventh session, Document 315, which the Conference has been unable to study, and be asked to make the arrangements necessary to provide the credits needed by the I.F.R.B., for the discharge of the tasks entrusted to it by the Conference ;

3. that in the meantime the I.F.R.B. use the 200,000 Swiss francs provided by the Administrative Council in the 1952 budget for completing the work of the Conference, taking care, however, not to make permanent or other commitments which would involve exceeding the abovementioned credit.

RESOLUTION No. 11

Relating to the Buenos Aires Regional Technical Meeting (1951)

The Extraordinary Administrative Radio Conference,

considering :

(a) that the compilation of the new International Frequency List for Region 2 between 150 kc/s and 4000 kc/s was greatly facilitated by the Technical Regional Meeting at Buenos Aires (1951) ;

(b) that the said Buenos Aires Meeting coordinated the assignments of Argentine, Bolivia, Brazil, Chile, Paraguay and Uruguay ;

(c) that the assignments thus coordinated at Buenos Aires between 150 kc/s and 4000 kc/s have been included in the new International Frequency List for Region 2 ;

resolves :

to recognize with appreciation the contribution which the Buenos Aires Technical Regional Meeting of 1951 has made to the work of the Union in its endeavour to bring into force at the earliest practicable date the Atlantic City Table of Frequency Allocations.

RESOLUTION No. 12

Relating to Administrative Council Resolution No. 156 (Amended)

The Extraordinary Administrative Radio Conference,

taking into account :

Resolution No. 156 (amended) of the Administrative Council and

considering :

(a) that the allocation of frequencies in the band 3500-4000 kc/s appearing in Appendix 3 of the final documents of the I.T.U. Conference for Region 2 (Washington, 1949), has not been accepted by all the Administrations concerned ;

(b) that the present Conference has prepared a new International Frequency List for Region 2 which has taken into account Resolution No. 156 (amended) of the Administrative Council and the Table of Frequency Allocations of Atlantic City for the band 3500-4000 kc/s ;

(c) that the band from 3500-4000 kc/s in Region 2 will be used in conformity with Article 5 of the Radio Regulations ;

resolves :

to inform the Administrative Council that appropriate action has been taken with respect to its Resolution No. 156 (amended).

RESOLUTION No. 13

Relating to the Cost of Publishing the Final Acts of the Conference

The Extraordinary Administrative Radio Conference,

considering :

(a) the provisions of Administrative Council Resolution No. 83, paragraphs F.3.b) and F.3.c) ;

(b) that the Conference has saved some 125,000 Swiss francs of the credit granted by the Administrative Council ;

resolves :

to authorise the Secretary General to charge to the budget of the Conference a sum of 80,000 Swiss francs as a contribution towards the cost of publishing the Final Acts of the Conference.

RECOMMENDATION No. 1

Concerning the Protection of Aeronautical Mobile Communications at Band Edges

The Extraordinary Administrative Radio Conference,

considering :

- (a) that the Aeronautical Mobile Service is a safety service ;
- (b) that the assignment of frequencies adjacent to the aeronautical mobile bands involves the risk of adjacent channel interference unless there is adequate geographical separation ;

recommends :

that all appropriate steps be taken in the assignment and utilisation of frequencies near the edges of the aeronautical mobile bands to ensure that aeronautical mobile communications on frequencies at the band edges, as provided for in the plans adopted at this Conference, are protected against possible radiations from the stations of other services.

RECOMMENDATION No. 2

Concerning Secondary Sharing of Aeronautical Mobile OR Frequencies

The Extraordinary Administrative Radio Conference,

considering :

(a) that, because there were insufficient aeronautical mobile OR channels to meet the stated requirements, it was not possible for the Conference to satisfy the minimum needs of all Administrations ;

(b) that among the Administrations for which no frequencies were provided in the OR Plan of the I.A.A.R.C., and whose minimum needs were not satisfied in the OR Plan of this Conference, are those of Greece and the State of Israel ;

(c) that additional sharing possibilities, over and above those provided in the Allotment Plan adopted by this Conference, are open to these Administrations by the application of Article 9 of the Agreement ;

(d) that, if advantage is taken of these possibilities, the cooperation of other Administrations will be required ;

recommends :

1. that all Administrations make every effort to allow the frequencies allotted to them in the OR Plan to be used where necessary for the conduct of OR aeronautical operations by other Administrations, and

2. that in this respect Administrations give special consideration to the use of frequencies on this basis by the Administrations mentioned above.

RECOMMENDATION No. 3

Concerning measures for Reducing Congestion in the Frequency Bands between 1605 kc/s and 3900 kc/s in Region 1

The Extraordinary Administrative Radio Conference,

considering :

that it is becoming increasingly difficult in Region 1 to accommodate all requirements in the bands between 1605 kc/s and 3900 kc/s without increasing the risk of harmful interference ;

recommends :

that Administrations take the following measures to reduce requirements for frequencies in the bands between 1605 kc/s and 3900 kc/s :

1. by employing frequencies in the very high frequency bands wherever the technical operating conditions of the circuit permit. This is specially recommended for :

- harbour services for which the Radio Regulations make provision in the band 156-174 Mc/s,
- circuits between islands and between mainlands and islands,
- networks of the land mobile service in large cities ;

2. by decreasing, whenever possible, the number of coast radio-telephone stations serving fishing vessels, by concentrating in the same station the service for several fishing ports ;

3. by replacing fixed radio circuits by land lines wherever conditions permit.

RECOMMENDATION No. 4

Concerning the Limitation of the Power of Coast Radiotelephone Stations in Region 1

The Extraordinary Administrative Radio Conference,

considering :

(a) that adequate protection for the Mobile Maritime Radiotelephone Service is necessary ;

(b) that, since the power of ship stations is limited, there is no purpose in using high power for coast radiotelephone stations ;

recommends :

that, in the band 1605-2850 kc/s, the mean power of coast radiotelephone stations be limited to :

— 2 kW for coast stations located North of latitude 32° N, and

— 3.5 kW for coast stations located South of latitude 32° N.

RECOMMENDATION No. 5

Concerning Frequency Tolerances in Region 1

The Extraordinary Administrative Radio Conference,

considering :

that the new International Frequency List for Region 1 has been based on close spacing of frequency assignments ;

recommends :

1. that transmitters of the highest frequency stability be employed, and that every effort should be made to meet, at the earliest possible date,

the tolerances specified in column 3 of the Table of Frequency Tolerances given in Appendix 3 of the Radio Regulations ;

2. that the tolerance specified for ship transmitters should be met not later than 1 November 1954.

RECOMMENDATION No. 6

Concerning the use of the Radiotelephone Distress and Calling Frequency in Region 1

The Extraordinary Administrative Radio Conference,

considering :

(a) that at present difficult operating conditions prevail in Region 1 for radiotelephone distress traffic on the frequency 1650 kc/s and the same conditions will continue when this frequency has been replaced by 2182 kc/s ;

(b) that it is desirable to improve such conditions by reducing interference ;

recommends :

that from 1 January 1952, or as soon as possible thereafter :

1. Administrations should take steps to ensure that transmissions on the distress frequency are made as brief as possible ;

2. Administrations should, as far as possible, arrange that their coast stations maintain watches for calls during scheduled periods (according to the needs of each Administration) on the ship-shore working frequency normally used by their ships, and that such calls should be answered by the coast stations on their working frequencies.

RECOMMENDATION No. 7

Concerning the Combined Use of certain Radionavigation Installations by the Maritime and Aeronautical Services in Region 1

The Extraordinary Administrative Radio Conference,

considering :

that the combined use by the Maritime and Aeronautical Services of certain radionavigation installations working on frequencies between 30 kc/s and 3000 kc/s would result in economy in the use of frequencies, as well as of equipment ;

recommends :

1. that Administrations study the possibility of a combined use of their national radionavigation installations by the Maritime and Aeronautical Services, with a view to such combined use in any future planning of radionavigation aids in their countries ;

2. that, when conferences are convened to consider any reorganization of such radionavigation aids for one service, whether maritime or aeronautical, experts from the other service should be invited to take part.

RECOMMENDATION No. 8

Concerning the Classification of Radiobeacons in Region 1

The Extraordinary Administrative Radio Conference,

considering :

(a) that the classification of radiobeacons (aeronautical and maritime) by the antenna input power gives no clear guide to the range at which they may be effective, because of variations in antenna radiation efficiency, conductivity of soil and other factors ;

(b) that the protection ratio for the radiobeacons in the List has been based on maintaining the radiated power at the minimum value necessary to give the required field strength at the service range ;

recommends :

1. that radiobeacons should be classified according to service range, as determined by the minimum field strength required ;

2. that Administrations should ensure that the field strength at the service ranges of their radiobeacons does not exceed the values shown in 26 and 28 of the Agreement, taking into account the position and type of the radiobeacons.

RECOMMENDATION No. 9

Relating to the Use of certain Frequencies in Region 2

The Extraordinary Administrative Radio Conference,

considering :

(a) that the frequencies 2638 kc/s and 2738 kc/s were designated by the Region 2 Conference (Washington, 1949) primarily for intership working ;

(b) that the frequencies 2804 kc/s, 2808 kc/s and 2812 kc/s were designated by the I.T.U. Conference for Region 2 (Washington, 1949) for interzone police communications ; and

(c) that the new International Frequency List for Region 2 for the band 2000-2850 kc/s makes provision for such uses of these frequencies ;

recommends :

that Administrations in Region 2 continue to avail themselves of the opportunity of using the following frequencies for the purposes indicated :

2638 kc/s and 2738 kc/s	primarily for intership communications (radiotelephony)
2804 kc/s, 2808 kc/s and 2812 kc/s	for interzone police communications (radiotelegraphy).

RECOMMENDATION No. 10

The Extraordinary Administrative Radio Conference, in the light of Article 40 of the Convention (Special Arrangements) and of Articles 4 (Special Arrangements) and 22 (Licences) of the Radio Regulations, is of the opinion that, unless it is specifically stipulated otherwise by special arrangements communicated to the Union by the parties concerned, assignments of, or notifications for frequencies made by the Members of the Union shall be communicated by the Administration of the Government on whose territory the station is installed, and invites the Administrations to adopt this procedure.

RECOMMENDATION No. 11

Concerning International Monitoring

The Extraordinary Administrative Radio Conference,

considering :

(a) that in order to obtain the most efficient use of the spectrum, especially during the interim period when numerous changes in frequency will be made, the Administrations have been requested in Resolution No. 3 to supply the I.F.R.B. with monitoring information relating to the current usage of frequencies ;

(b) that coordination of the work carried on by monitoring stations on the lines indicated in the note below will increase the value of the resulting data ;

recommends to Administrations :

1. to do their utmost to improve the efficiency of the international monitoring system and to extend its coverage on a world-wide basis ;
2. to afford the maximum possible cooperation in the programme of work to be established by the I.F.R.B., which will take into account the potentialities of the monitoring stations as indicated by the Administrations.

NOTE

1. To meet present needs, an international monitoring station suitable for the special purposes of investigating the occupancy of the spectrum could be provided by means of a frequency measuring equipment having an accuracy of measurement of the order of 30 parts in one million.
2. Upon request, the I.F.R.B. should be advised of the normal working hours of the monitoring stations and of the periods which could be made available for international monitoring.
3. Monitoring should be conducted along the lines to be indicated by the I.F.R.B. These indications may depend on the number of monitoring stations participating, on the geographical location of the stations concerned and on the most urgent requirements of the I.F.R.B. at a given time.
4. In order to provide for the rapid and efficient compilation and distribution of results, the submission of the data should follow the procedure to be established by the I.F.R.B. to this end.

RECOMMENDATION No. 12

Concerning Identification of Emissions

The Extraordinary Administrative Radio Conference,

considering :

(a) that an adequate knowledge of the use which is being made of the spectrum is necessary to enable Administrations to select frequencies for their new assignments and for replacement of out-of-band assignments, and to enable the I.F.R.B. to render advice to Administrations in their selection of those frequencies, and that such knowledge may be provided, to a great extent, by the data derived from international monitoring ;

(b) that, in the near future, the usage of the spectrum will be subject to extensive changes as the result of the decisions of the present Conference, and that in consequence an effective international monitoring system will become more and more necessary to the Administrations as well as to the I.F.R.B. ;

(c) that the positive identification by monitoring stations of emissions is of great importance ;

(d) that there are, at present, many factors which adversely affect positive identification (for example, the information on call-signs available to the General Secretariat of the Union may not be up-to-date, and stations may use call-signs incorrectly or infrequently) and that the effectiveness of monitoring stations is seriously reduced thereby ;

recommends Administrations :

to make every effort to facilitate the identification of their stations,

1. by ensuring that the provisions of Article 13, Section V of the Radio Regulations are followed, paying due regard to Recommendation No. 79 of the C.C.I.R. (Geneva, 1951) and, in particular, sub-paragraphs 1.1, 1.2 and 1.3 of that Recommendation ;

2. by collaborating in study programme No. 26 of the C.C.I.R. (Geneva, 1951) ;

3. by supplying the information which will enable the General Secretariat to keep up-to-date the records at its disposal, relating at least to the internationally recognized call-signs used by their transmitting stations. *

* Until complete information is available, it would be desirable in the meantime to inform the I.F.R.B. of the manner in which the call-signs are assigned, within the series used by each Administration.

RECOMMENDATION No. 13

Concerning Frequencies above 27 500 kc/s

The Extraordinary Administrative Radio Conference,

considering :

(a) that the development of radio services using frequencies above 27 500 kc/s is still in an early phase in many countries ;

(b) that frequencies somewhat above 27 500 kc/s have been found to be useful not only for local services but also for long-distance circuits, particularly during periods of high solar activity ;

(c) that in the portion of the spectrum above 27 500 kc/s the frequency above which it is not possible to operate a long-distance circuit for useful periods cannot be established accurately at this time ;

(d) that as a result of long-distance propagation phenomena in the frequency bands immediately above 27 500 kc/s, local radiocommunication services—especially continuous services—experience mutual interference even when widely separated geographically ;

(e) that, having regard to the probability of harmful interference, the procedure prescribed by Chapter IV of the Radio Regulations for the NOTIFICATION and REGISTRATION of frequencies may not be entirely appropriate for the special propagation conditions encountered in the portion of the spectrum above 27 500 kc/s ;

(f) that Administrations may have little interest in the use made of individual frequencies having line-of-sight propagation characteristics in areas beyond their normal harmful interference range, with the exception of certain frequencies specifically designated in the Radio Regulations for use on a world-wide basis (e.g. 156.8 Mc/s) or frequencies whose usage is governed by special arrangements ;

recommends :

that, with a view to making any necessary proposals to the next Administrative Radio Conference, Administrations and the I.F.R.B. should consider :

1. whether the procedure for NOTIFICATION and REGISTRATION of frequencies and the manner of publication of the Frequency List as laid down in the Radio Regulations are suitable for the whole spectrum above 27 500 kc/s ; and, if not,

2. what other procedures or methods of publication would be more appropriate and helpful to Administrations for the whole, or for certain portions, of the frequency spectrum above 27 500 kc/s, with particular regard to the desirability of subdividing this portion of the List on a geographical basis.

RECOMMENDATION No. 14

Concerning C.C.I.R. Studies Relating to the Inclusion of the Fixed, Land Mobile and Broadcasting Services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s in the appropriate Bands of the Atlantic City Table of Frequency Allocations

The Extraordinary Administrative Radio Conference,

considering :

(a) that the interim procedure to be followed in connection with the Fixed, Land Mobile and Broadcasting Services between 3950 kc/s (4000 kc/s Region 2) and 27 500 kc/s as outlined in Article 12 of the Agreement, necessitates the reduction of existing frequency spacings between adjacent assigned frequencies to the minimum, the application of common channel sharing to the maximum and economy in the number of frequency assignments ;

(b) that the effectiveness of such measures is dependent on the early application of improved techniques and the provision of accurate data for the forecasting of propagation conditions ;

(c) that the programme of studies adopted at the Sixth Meeting of the C.C.I.R. (Geneva, 1951) is comprehensive and covers adequately the aspects on which advice is needed ;

(d) that the C.C.I.R. should, at the earliest possible date, make available to Administrations and to the I.F.R.B., interim reports on the matters on which advice is urgently needed, even though the studies are not complete ;

requests :

the C.C.I.R. to expedite all phases of the programme of studies which will assist Administrations and the I.F.R.B. in the solution of problems arising in connection with carrying out the procedure outlined in (a) above, and to give particular attention to studies (see Annex to this Recommendation) concerned with :

1. the determination of the minimum bandwidths which are necessary to transmit information by the various types of emission and the corresponding bandwidths which are achieved in practice ;

2. the frequency stabilities which are achieved for the various types of radio transmitter and of oscillators employed in receivers and methods of obtaining improved stability consistent with practical design consideration ;

3. the selectivity of radio receivers necessary to receive various types of emission and the selectivity characteristics of representative receivers ;

4. the minimum permissible ratio between the desired and undesired signals for the satisfactory reception of each type of emission ;

5. the antenna directivity which can be achieved in practice ;

6. the collection, analysis and distribution of radio propagation and of radio noise data to provide practical information for the engineering of radio circuits ;

invites :

Administrations, in their participation in the work of the C.C.I.R. and its study groups, to give special priority to those studies.

ANNEX
TO RECOMMENDATION No. 14

*Principal C.C.I.R. Studies and Questions bearing on Problems referred to
in Recommendation No. 14*

Bandwidth and Signal-to-Noise Ratios in Complete Systems	Study Programme No. 8
Bandwidth of Emissions	Study Programme No. 1
Frequency Shift Keying	Study Programme No. 4
Harmonics and Parasitic Emissions	Study Programme No. 2
Single Sideband Sound Broadcasting	Question No. 62
Frequency Stabilisation of Transmitters	Study Programme No. 3
The Reception of High Frequency Broad- casting with Synchronized Transmit- ters	Study Programme No. 30
Selectivity of Receivers	Study Programme No. 6
Stability of Receivers	Study Programme No. 5
Protection Against Keyed Interfering Signals	Study Programme No. 7
Short Distance High Frequency Broad- casting in the Tropical Zone	Study Programme No. 38
Design of Aerials for Tropical Broad- casting	Question No. 70
Practical Uses of Radio Propagation Data	Question No. 50
Study of Fading	Study Programme No. 24
Allowances for Fading	Question No. 52
Theory of Communication and its prac- tical applications	Study Programme No. 10

