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Union Activities

The Regional Broadcasting-Satellite Conference for the Americas

The Regional Administrative Conference for the planning of the broadcasting-satellite service in Region 2 (the Americas), called the "Broadcasting-Satellite Conference (Region 2), Geneva 1983", organized by the International Telecommunication Union, completed its work on 17 July 1983. It opened on 13 June 1983 at the Centre international de conférences de Genève (CICG).

Some 180 delegates from 25 countries and regional or international organizations met under the chairmanship of Mr. L. Valencia (Mexico), assisted by Messrs. A. Washburn (United States), R. García González (Cuba) and J. Taboada (Argentina) as Vice-Chairmen. The Conference set up the following Committees:

- Committee 1—Steering Committee
- Committee 2—Credentials Committee
- Committee 3—Budget Control Committee
- Committee 4—Technical Committee
- Committee 5—Planning Committee
- Committee 6—Procedures Committee

1. Work of the Conference

The work of the Conference, which lasted for 5 weeks, proceeded in accordance with the agenda (see *Telecommunication Journal*, June 1983, page 284). The Conference established plans for the broadcasting-satellite service down-links and the corresponding feeder links for transmitting the broadcasting programme to the satellites. It adopted:

- the provisions relating to the use of the Plan for the broadcasting service;
- the provisions relating to the use of the Plan for the feeder links;
- the provisions relating to the procedure to be applied during the period between 1 January 1984 and the date

of entry into force of the Final Acts of the World Administrative Radio Conference on the use of the geostationary satellite orbit and the planning of the space services utilizing it (WARC-ORB(1)) in order to enable countries to proceed with the development of their system;

- Recommendations concerning the amendments to be made in certain articles of the Radio Regulations and in Appendix 30 thereto concerning the provisions for all services and the associated Plan for broadcasting-satellite service in Regions 1, 2 and 3;
- Resolutions and Recommendations on further action concerning the use of the Plan including a Recommendation to WARC-ORB(1) 1985 (see below) to incorporate the Plans and associated provisions in the Radio Regulations.

2. Final Acts

The Final Acts of the Conference comprise a preamble and four parts.

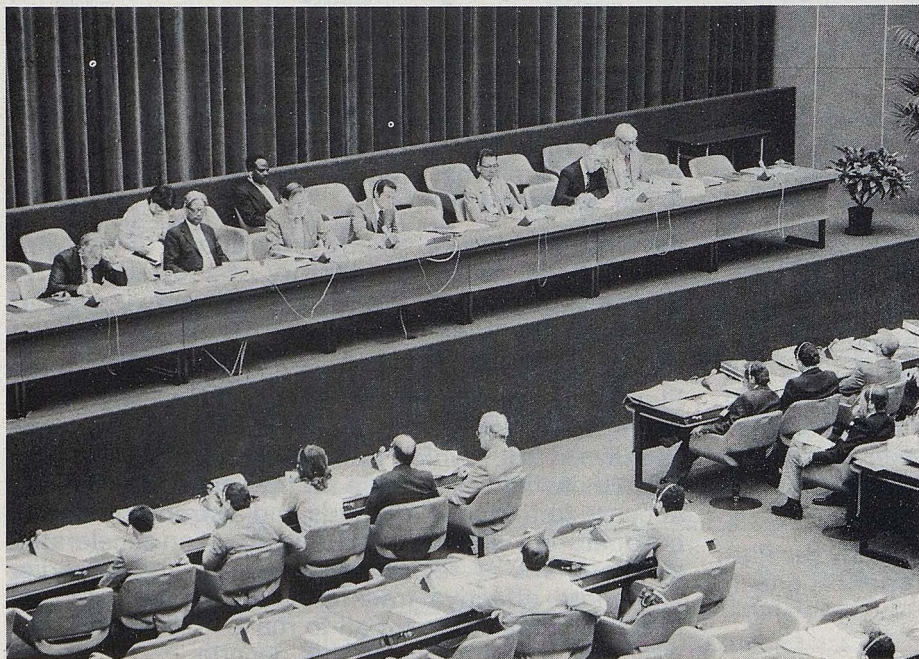
The **Preamble** sets forth the results obtained by the Conference and states that the delegates agreed on the texts adopted which will be submitted to the first session (1985) of the WARC-ORB(1) for their incorporation in the Radio Regulations, and the adoption of Resolutions making them applicable in all countries of Region 2 and, where necessary, all countries Members of the Union¹.

Part I contains the provisions and associated Plan for the broadcasting-satellite service in the frequency band 12.2-12.7 GHz in Region 2. The Plan comprises 2100 channels which have been distributed among the countries of the Region to meet their requirements.

Part II contains the provisions and associated Plan relating to the feeder links of the broadcasting-satellite service (12.2-12.7 GHz) in the frequency band 17.3-17.8 GHz. The Plan comprises 2100 feeder links.

Part III contains the amendments to be made in the Radio Regulations; these amendments will be submitted for approval by the WARC-ORB(1) (see "Preamble").

¹ The Radio Regulations are annexed to the International Telecommunication Convention, an intergovernmental treaty which governs the ITU. They can be amended only by a world conference since they are binding on all countries Members of the Union. The present Regional Conference, therefore, can merely *propose* amendments to the Radio Regulations for examination and possible approval by the WARC-ORB(1) which will be a world conference.



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Technical characteristics BC-SAT 12 GHz (Regions 1, 2 and 3)

	Regions 1 and 3 (Geneva 1977, App. 30)	Region 2 (Geneva 1983)
Frequency band	11.7-12.5 GHz Region 1 11.7-12.2 GHz Region 3	12.2-12.7 GHz
Number of channels	40 (Region 1)-24 (Region 3)	32
ΔF	19.18 MHz	14.58 MHz
Protection margin	$M = -10 \log \left(\sum_{i=1}^3 10^{(-M_{i/10})} \right)$	$M = -10 \log \left(\sum_{i=1}^5 10^{(-M_{i/10})} \right)$
Polarization	circular	circular
Carrier-to-noise ratio	14 dB	14 dB
Protection ratio	31 dB 15 dB	28 dB 13.6 -10
G/T	6 dBK ⁻¹	10 dBK ⁻¹
Receiving antenna diameter	2°	1.7°
Bandwidth	27 MHz	24 MHz
Orbital spacing	6°	non-uniform
Station keeping	$\pm 0.1^\circ$	$\pm 0.1^\circ$
Elevation angle	20°	20°
Transmitting antenna beamwidth	0.6°	0.8°
PFD	-103 dBW/m ²	-107 dBW/m ²
ΔG	3 dB	3 dB

Part IV contains the Resolutions and Recommendations of the Conference.

The Resolutions and Recommendations adopted by the Conference include:

— a Resolution relating to the period between 1 January 1984 and the entry into force of the Final Acts of WARC-

ORB(1), 1985. This Resolution specifies the procedures to be applied during that period by the countries of Region 2 and the IFRB. It stipulates that administrations of that Region wishing to modify or bring into use as interim systems assignments in the Plan during that period shall apply the provisions of Parts I and

II of the Final Acts of the Conference on a provisional basis;

— a Recommendation relating to the incorporation into the Radio Regulations of the Provisions and associated Plans for the broadcasting-satellite service in the band 12.2-12.7 GHz and for associated feeder links in the band 17.3-17.8 GHz in Region 2 and the recoding of the assignments contained in the Plans in the Master International Frequency Register. It recommends the WARC-ORB(1):

1. to incorporate into the Radio Regulations in the appropriate form the provisions and associated Plans prepared for the broadcasting-satellite service in the band 12.2-12.7 GHz and for associated feeder links in the band 17.3-17.8 GHz in Region 2 without modifying them;

2. to instruct the IFRB to record in the Master International Frequency Register the assignments appearing in the two Plans;

3. to consider the possibility of combining the annexes to Appendix 30 (see 1, "Work of the Conference") with those to Part I of the Final Acts;

— a Resolution relating to the incorporation in the Radio Regulations of the provisions and associated Plan for the broadcasting-satellite service in Region 2. Under this Resolution, the Secretary-General is instructed to prepare in an appropriate form a draft consolidated text containing the provisions and associated Plans for the broadcasting-satellite service for Regions 1 and 3 as appearing in Appendix 30 to the Radio Regulations and the provisions and associated Plan for the broadcasting-satellite service for Region 2 as appearing in the Final Acts of this Conference, to send the draft consolidated text to all administrations for comment and to publish it as a conference document of WARC-ORB(1) at least 6 months before the opening of that Conference the text thus established together with any comments received from administrations;

— a Recommendation relating to the need for additional propagation studies in high-rainfall zones of Region 2. This Resolution invites the CCIR to speed up its studies on rain attenuation in tropical and equatorial zones of Region 2 and recommends administrations to participate actively in them.

3. Countries of Region 2 not represented

The Conference has made provisions in Plans for all absent or non-represented governments of Region 2.

In the Region 2 Plan there are...

- 35 administrations involved
- 56 identified countries or geographical areas
- 130 defined service areas
- 32 frequency channels
- 48 orbital positions around which are planned clusters of two or more satellites
- 2124 frequency assignments for broadcasting satellite down-links
- 2124 frequency assignments for broadcasting satellite up-links
- 5 Caribbean beams intended collectively to provide coverage for a common programme for the following countries, if they so desire: Anguilla, Antigua and Barbuda, Bahamas, Barbados, Belize, Bermudas, British Virgin Islands, Cayman Islands, Dominica, Grenada, Guyana, Jamaica, Montserrat, Saint Lucia, St. Christopher-Nevis, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, Turks and Caicos
- 1 Andean beam intended to provide common programme service for: Bolivia, Colombia, Ecuador, Peru and Venezuela.