

## RESOLUTION ITU-R 4-2

**STRUCTURE OF RADIOCOMMUNICATION STUDY GROUPS**

(1993-1995, 1997)

The ITU Radiocommunication Assembly,

*considering*

- a) provision No. 133 and Article 11 of the ITU Convention (Geneva, 1992);
- b) that the work of the Radiocommunication Study Groups is involved with developing the technical, operational and procedural bases for efficient use of the radio spectrum and the geostationary-satellite orbit;
- c) that cooperation between the Radiocommunication Sector and international and regional organizations with regard to the development of standards for radiocommunication systems and operations would provide considerable benefits,

*resolves*

- 1 that eight Radiocommunication Study Groups shall be set up as shown in Annex 1;
- 2 that the principles applicable to the work of Radiocommunication Study Group 1 are described in Annex 2;
- 3 that, in liaison with the Telecommunication Standardization Sector, the Telecommunication Development Sector, the ITU General Secretariat and with other interested organizations, the Radiocommunication Bureau organizes the work of a Coordination Committee for Vocabulary, the scope of which is given in Annex 3.

## ANNEX 1

**The Radiocommunication Study Groups****STUDY GROUP 1**

(SPECTRUM MANAGEMENT)

(Spectrum planning, utilization, engineering, sharing and monitoring)

*Scope:*

- 1 Development of principles and techniques for effective spectrum management, sharing criteria and methods, techniques for spectrum monitoring and long-term strategies for spectrum utilization as well as, in association with the appropriate bodies of the ITU, facilitation of the collection and dissemination of information concerning computer programs prepared for the implementation of relevant Recommendations (see Annex 2).
- 2 Development of Recommendations or of a Report to the Conference Preparatory Meeting in answer to those urgent Questions concerning inter-service sharing and compatibility requiring special attention. This course of action shall be followed if the matter cannot be dealt with more expeditiously through the mechanism of joint working parties, joint task groups or ad hoc rapporteur groups, as assigned by the Radiocommunication Assembly, or if the Question arises during the interval between Radiocommunication Assemblies, by the Director after consultation with interested Study Group Chairmen and Administrations (see Annex 2).

<i>Chairman:</i>	R. MAYHER	(United States of America)
<i>Vice-Chairmen:</i>	T. JEACOCK	(United Kingdom)
	N. KISRAWI	(Syrian Arab Republic)
	A. PAVLIOUK	(Russian Federation)

**STUDY GROUP 3**

(RADIOWAVE PROPAGATION)

*Scope:*

Propagation of radio waves in ionized and non-ionized media and the characteristics of radio noise, for the purpose of improving radiocommunication systems.

<i>Chairman:</i>	D. G. COLE	(Australia)
<i>Vice-Chairmen:</i>	B. ARBESSER-RASTBURG	(European Space Agency)
	D. V. ROGERS	(Canada)

**STUDY GROUP 4**

(FIXED-SATELLITE SERVICE)

*Scope:*

Systems and networks for the fixed-satellite service and inter-satellite links in the fixed-satellite service, including associated tracking, telemetry and telecommand functions.

<i>Chairman:</i>	Y. ITO	(Japan)
<i>Vice-Chairmen:</i>	J. M. P. FORTES	(Brazil)
	V. RAWAT	(Canada)
	A. G. REED	(United Kingdom)
	J. SESEÑA NAVARRO	(Spain)

**STUDY GROUP 7**

(SCIENCE SERVICES)

*Scope:*

**1** Systems for space operation, space research, earth exploration and meteorology, including the related use of links in the inter-satellite service.

**2** Radio astronomy and radar astronomy.

**3** Dissemination, reception and coordination of standard-frequency and time-signal services, including the application of satellite techniques, on a worldwide basis.

<i>Chairman:</i>	R. M. TAYLOR	(United States of America)
<i>Vice-Chairmen:</i>	G. DE JONG	(Netherlands)
	V. MEENS	(France)
	J. B. WHITEOAK	(Australia)

**STUDY GROUP 8**

(MOBILE, RADIODETERMINATION, AMATEUR AND RELATED SATELLITE SERVICES)

*Scope:*

Systems and networks for the mobile, radiodetermination and amateur services, including related satellite services.

<i>Chairman:</i>	E. GEORGE	(Germany (Federal Republic of))
<i>Vice-Chairmen:</i>	A. A. AL-DARRAB	(Saudi Arabia (Kingdom of))
	T. MIZUIKE	(Japan)
	R. SWANSON	(United States of America)
	O. VILLANYI	(Hungary (Republic of))

**STUDY GROUP 9**

(FIXED SERVICE)

*Scope:*

Systems and networks of the fixed service operating via terrestrial stations.

<i>Chairman:</i>	M. MUROTANI	(Japan)
<i>Vice-Chairmen:</i>	G. F. HURT	(United States of America)
	V. M. MINKIN	(Russian Federation)

**STUDY GROUP 10**

(BROADCASTING SERVICE – SOUND)

*Scope:*

International exchange of programmes and systems of the broadcasting and broadcasting-satellite services, including audio frequency and recording equipment, as well as the overall performance of the means of delivering signals to the general public, where they are used for sound, data and ancillary services accompanying sound.

<i>Chairman:</i>	A. MAGENTA	(Italy)
<i>Vice-Chairmen:</i>	H. M. JOSHI	(India)
	O. KARPENKO	(Ukraine)
	H. KUSSMANN	(Germany (Federal Republic of))
	L. OLSON	(United States of America)

**STUDY GROUP 11**

(BROADCASTING SERVICE – TELEVISION)

*Scope:*

International exchange of programmes and systems of the broadcasting and broadcasting-satellite services, including video frequency and recording equipment, as well as the overall performance of the means of delivering signals to the general public, when they are used for television, data and associated ancillary services.

<i>Chairman:</i>	M. KRIVOCHEEV	(Russian Federation)
<i>Vice-Chairmen:</i>	T. NISHIZAWA	(Japan)
	R. ZEITOUN	(Canada)

## ANNEX 2

**Principles applicable to the work of Radiocommunication  
Study Group 1**

- 1 To provide a worldwide forum for managers of the radio-frequency spectrum to exchange information and to discuss common interests in relation to the relevant issues of radio-frequency spectrum management.
- 2 To develop ITU-R texts (Resolution ITU-R 1, § 6) on long-term strategies for frequency spectrum utilization.

- 3 To develop ITU-R texts (Resolution ITU-R 1, § 6) concerning:
- principles and techniques for the effective use and management of the radio-frequency spectrum including the technical basis for frequency assignment and coordination, computer-aided analysis, electromagnetic compatibility (EMC), analysis equipment parameters which affect the efficient use of the radio spectrum, and methods of measurement;
  - in cooperation with the Study Groups concerned, appropriate spectrum sharing criteria and methods to enable the efficient use of the spectrum;
  - techniques for spectrum monitoring and related issues;
  - strategies for economic approaches to national spectrum management in close cooperation with the Telecommunication Development Sector.
- 4 To provide assistance in matters within its competence to developing countries in cooperation with the Telecommunication Development Sector.
- 5 Recognizing the continuing work within the Study Groups, including Study Group 1, to facilitate the collection and dissemination of information concerning computer programs identified by the Study Groups for implementation of relevant Recommendations which use automated processes for their proper application, in cooperation with the appropriate bodies of the ITU.
- 6 Study a limited number of specific urgent Questions concerning inter-service sharing and compatibility referred to it by the Radiocommunication Assembly or, if the Question arises during the interval between the Assemblies, by the decision of a meeting of the Study Group Chairmen and Vice-Chairmen or by the Director after consultation with interested Study Group Chairmen and Administrations. The Radiocommunication Assembly or the Director, as the case may be, shall establish a time schedule for the completion of this work.
- Upon referral of such an urgent Question, the Chairman shall, in consultation with the Director, establish a Task Group to consider the Question, inviting all interested Administrations and agencies to participate.
- The Task Group, upon successful completion of their work, shall prepare draft new or modified Recommendation(s).
- The Study Group Chairman shall, if the level of urgency requires it, convene a meeting of the Study Group to consider such draft Recommendations. The Study Group may decide to apply the procedures for the approval of Recommendations according to § 10 of Resolution ITU-R 1.

## ANNEX 3

## CCV

## (COORDINATION COMMITTEE FOR VOCABULARY)

*Scope:*

Coordination within the Radiocommunication Study Groups, and liaison with the Telecommunication Standardization Study Groups, the Telecommunication Development Study Groups, the ITU General Secretariat and other interested organizations (mainly the International Electrotechnical Commission (IEC)) concerning:

- vocabulary, including abbreviations and initials;
- related subjects (quantities and units, graphical and letter symbols).

<i>Chairman:</i>	J. SCHWOB	(France)
<i>Vice-Chairmen:</i>	L. W. BARCLAY	(United Kingdom)
	P. GARCÍA-BARQUERO	(Spain)