

## PREFACE

This CPM Report to the 2003 World Radiocommunication Conference (WRC-03) was prepared in response to Resolution 1156 of the ITU Council to assist those who will be involved in the preparations for and deliberations at WRC-03. The Report was prepared and approved by the CPM at its second meeting, 18 - 29 November 2002. The Report is structured to generally follow the topics of the WRC-03 Agenda and its contents follow the outline approved by the first meeting of the CPM which was held during the week following WRC-2000. A cross-reference list is provided to facilitate finding specific topics within the framework of the WRC-03 Agenda. This Report comprises seven Chapters and one Annex.

The Report represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-03 Agenda available at the time of its preparation and should provide a good basis for the discussions at the Conference.

Robert W. Jones  
Director Radiocommunication Bureau

## Cross-reference between the WRC-03 agenda items and the chapters of the CPM Report

WRC-03 agenda item	Section of the CPM Report to WRC-03	
1.	on the basis of proposals from administrations and the Report of the Conference Preparatory Meeting, taking account of the results of WRC-2000, and with due regard to the requirements of existing and future services in the bands under consideration, to consider and take appropriate action with respect to the following items:	
1.1	requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, in accordance with Resolution <b>26 (Rev.WRC-97)</b>	Not in scope of CPM
1.2	to review and take action, as required, on No. <b>5.134</b> and related Resolutions <b>517 (Rev.WRC-97)</b> and <b>537 (WRC-97)</b> and Recommendations <b>515 (Rev.WRC-97)</b> , <b>517 (Rev.WRC-2000)</b> , <b>519 (WARC-92)</b> and Appendix <b>S11</b> , in the light of the studies and actions set out therein, having particular regard to the advancement of new modulation techniques, including digital techniques, capable of providing an optimum balance between sound quality, bandwidth and circuit reliability in the use of the HF bands allocated to the broadcasting service	Chapter 5, § 5.1
1.3	to consider identification of globally/regionally harmonized bands, to the extent practicable, for the implementation of future advanced solutions to meet the needs of public protection agencies, including those dealing with emergency situations and disaster relief, and to make regulatory provisions, as necessary, taking into account Resolution <b>645 (WRC-2000)</b>	Chapter 2, § 2.1
1.4	to consider the results of studies related to Resolution <b>114 (WRC-95)</b> , dealing with the use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth-to-space) (limited to non-GSO MSS feeder links), and review the allocations to the aeronautical radionavigation service and the fixed-satellite service in the band 5 091-5 150 MHz	Chapter 1, § 1.1
1.5	to consider, in accordance with Resolution <b>736 (WRC-2000)</b> , regulatory provisions and spectrum requirements for new and additional allocations to the mobile, fixed, Earth exploration-satellite and space research services, and to review the status of the radiolocation service in the frequency range 5 150-5 725 MHz, with a view to upgrading it, taking into account the results of ITU-R studies	Chapter 2, § 2.2
1.6	to consider regulatory measures to protect feeder links (Earth-to-space) for the mobile-satellite service which operate in the band 5 150-5 250 MHz, taking into account the latest ITU-R Recommendations (for example, Recommendations ITU-R S.1426, ITU-R S.1427 and ITU-R M.1454)	Chapter 2, § 2.3
1.7	to consider issues concerning the amateur and amateur-satellite services:	Chapter 5, § 5.2
1.7.1	possible revision of Article <b>25</b>	Chapter 5, § 5.2.1
1.7.2	review of the provisions of Article <b>19</b> concerning the formation of call signs in the amateur services in order to provide flexibility for administrations	Chapter 5, § 5.2.2
1.7.3	review of the terms and definitions of Article <b>1</b> to the extent required as a consequence of changes made in Article <b>25</b>	Chapter 5, § 5.2.3
1.8	to consider issues related to unwanted emissions:	Chapter 6, § 6.1
1.8.1	consideration of the results of studies regarding the boundary between spurious and out-of-band emissions, with a view to including the boundary in Appendix <b>3</b>	Chapter 6, § 6.1.1
1.8.2	consideration of the results of studies, and proposal of any regulatory measures regarding the protection of passive services from unwanted emissions, in particular from space service transmissions, in response to <i>recommends</i> 5 and 6 of Recommendation <b>66 (Rev.WRC-2000)</b>	Chapter 6, § 6.1.2

1.9	to consider Appendix <b>13</b> and Resolution <b>331 (Rev.WRC-97)</b> with a view to their deletion and, if appropriate, to consider related changes to Chapter SVII and other provisions of the Radio Regulations, as necessary, taking into account the continued transition to and introduction of the Global Maritime Distress and Safety System (GMDSS)	Chapter 5, § 5.3
1.10	to consider the results of studies, and take necessary actions, relating to:	Chapter 5, § 5.4
1.10.1	exhaustion of the maritime mobile service identity numbering resource (Resolution <b>344 (WRC-97)</b> )	Chapter 5, § 5.4.1
1.10.2	shore-to-ship distress communication priorities (Resolution <b>348 (WRC-97)</b> )	Chapter 5, § 5.4.2
1.11	to consider possible extension of the allocation to the mobile-satellite service (Earth-to-space) on a secondary basis in the band 14-14.5 GHz to permit operation of the aeronautical mobile-satellite service as stipulated in Resolution <b>216 (Rev.WRC-2000)</b>	Chapter 2, § 2.4
1.12	to consider allocations and regulatory issues related to the space science services in accordance with Resolution <b>723 (Rev.WRC-2000)</b> and to review all Earth exploration-satellite service and space research service allocations between 35 and 38 GHz, taking into account Resolution <b>730 (WRC-2000)</b>	Chapter 2, § 2.5
	Resolution <b>723 (Rev.WRC-2000)</b> , <i>resolves 1</i>	Chapter 2, § 2.5.1
	Resolution <b>723 (Rev.WRC-2000)</b> , <i>resolves 2</i>	Chapter 2, § 2.5.3
	Resolution <b>723 (Rev.WRC-2000)</b> , <i>resolves 3</i>	Chapter 2, § 2.5.3
	Resolution <b>723 (Rev.WRC-2000)</b> , <i>resolves 4</i>	Chapter 2, § 2.5.4
	Resolution <b>730 (WRC-2000)</b>	Chapter 2, § 2.5.5
1.13	to consider regulatory provisions and possible identification of existing frequency allocations for services which may be used by high altitude platform stations, taking into account No. <b>5.543A</b> and the results of the ITU-R studies conducted in accordance with Resolutions <b>122 (Rev.WRC-2000)</b> and <b>734 (WRC-2000)</b>	Chapter 4, § 4.1
1.14	to consider measures to address harmful interference in the bands allocated to the maritime mobile and aeronautical mobile (R) services, taking into account Resolutions <b>207 (Rev.WRC-2000)</b> and <b>350 (WRC-2000)</b> , and to review the frequency and channel arrangements in the maritime MF and HF bands concerning the use of new digital technology, also taking into account Resolution <b>347 (WRC-97)</b>	Chapter 5, § 5.5
1.15	to review the results of studies concerning the radionavigation-satellite service in accordance with Resolutions <b>604 (WRC-2000)</b> , <b>605 (WRC-2000)</b> and <b>606 (WRC-2000)</b>	Chapter 1, § 1.2
	Resolutions <b>604 (WRC-2000)</b>	Chapter 1, § 1.2.1
	Resolutions <b>605 (WRC-2000)</b>	Chapter 1, § 1.2.2
	Resolutions <b>606 (WRC-2000)</b>	Chapter 1, § 1.2.3
1.16	to consider allocations on a worldwide basis for feeder links in bands around 1.4 GHz to the non-GSO MSS with service links operating below 1 GHz, taking into account the results of ITU-R studies conducted in response to Resolution <b>127 (Rev.WRC-2000)</b> , provided that due recognition is given to the passive services, taking into account No. <b>5.340</b>	Chapter 2, § 2.6
1.17	to consider upgrading the allocation to the radiolocation service in the frequency range 2 900-3 100 MHz to primary	Chapter 1, § 1.3
1.18	to consider a primary allocation to the fixed service in the band 17.3-17.7 GHz for Region 1, taking into account the primary allocations to various services in all three Regions	Chapter 4, § 4.2
1.19	to consider regulatory provisions to avoid misapplication of the non-GSO FSS single-entry limits in Article <b>22</b> based on the results of ITU-R studies carried out in accordance with Resolution <b>135 (WRC-2000)</b>	Chapter 3, § 3.1

1.20	to consider additional allocations on a worldwide basis for the non-GSO MSS with service links operating below 1 GHz, in accordance with Resolution <b>214 (Rev.WRC-2000)</b>	Chapter 2, § 2.7
1.21	to consider progress of the ITU-R studies concerning the technical and regulatory requirements of terrestrial wireless interactive multimedia applications, in accordance with Resolution <b>737 (WRC-2000)</b> , with a view to facilitating global harmonization	Chapter 7, § 7.1
1.22	to consider progress of ITU-R studies concerning future development of IMT-2000 and systems beyond IMT-2000, in accordance with Resolution <b>228 (WRC-2000)</b>	Chapter 7, § 7.2
1.23	to consider realignment of the allocations to the amateur, amateur-satellite and broadcasting services around 7 MHz on a worldwide basis, taking into account Recommendation <b>718 (WARC-92)</b> "Alignment of allocations in the 7 MHz band allocated to the amateur service"	Chapter 5, § 5.6
1.24	to review the usage of the band 13.75-14 GHz, in accordance with Resolution <b>733 (WRC-2000)</b> , with a view to addressing sharing conditions	Chapter 1, § 1.4
1.25	to consider, with a view to global harmonization to the greatest extent possible, having due regard to not constraining the development of other services, and in particular of the fixed service and broadcasting-satellite service, regulatory provisions and possible identification of spectrum for high-density systems in the fixed-satellite service above 17.3 GHz, focusing particularly on frequency bands above 19.7 GHz	Chapter 4, § 4.3
1.26	to consider the provisions under which earth stations located on board vessels could operate in fixed-satellite service networks, taking into account the ITU-R studies in response to Resolution <b>82 (WRC-2000)</b>	Chapter 4, § 4.4
1.27	to review, in accordance with Resolutions <b>540 (WRC-2000)</b> and <b>735 (WRC-2000)</b> , the ITU-R studies requested in those Resolutions, and modify, as appropriate, the relevant regulatory procedures and associated sharing criteria contained in Appendices <b>30</b> and <b>30A</b> and in the associated provisions	Chapter 3, § 3.2
1.28	to permit the use of the band 108-117.975 MHz for the transmission of radionavigation satellite differential correction signals by ICAO standard ground-based systems	Chapter 1, § 1.5
1.29	to consider the results of studies related to Resolutions <b>136 (WRC-2000)</b> and <b>78 (WRC-2000)</b> dealing with sharing between non-GSO and GSO systems	Chapter 3, § 3.3
1.30	to consider possible changes to the procedures for the advance publication, coordination and notification of satellite networks in response to Resolution <b>86</b> (Minneapolis, 1998)	Chapter 3, § 3.4
1.31	to consider the additional allocations to the mobile-satellite service in the 1-3 GHz band, in accordance with Resolutions <b>226 (WRC-2000)</b> and <b>227 (WRC-2000)</b>	Chapter 2, § 2.8
1.32	to consider technical and regulatory provisions concerning the band 37.5-43.5 GHz, in accordance with Resolutions <b>128 (Rev.WRC-2000)</b> and <b>84 (WRC-2000)</b>	Chapter 4, § 4.5
1.33	to review and revise technical, operational and regulatory provisions, including provisional limits in relation to the operation of high altitude platform stations within IMT-2000 in the bands referred to in No. <b>5.388</b> , in response to Resolution <b>221 (WRC-2000)</b>	Chapter 2, § 2.9
1.34	to review the results of studies in response to Resolution <b>539 (WRC-2000)</b> concerning threshold values for non-GSO BSS (sound) in the band 2 630-2 655 MHz, and to take actions as required	Chapter 3, § 3.5
1.35	to consider the report of the Director of the Radiocommunication Bureau on the results of the analysis in accordance with Resolution <b>53 (Rev.WRC-2000)</b> and take appropriate action	Chapter 3, § 3.6
1.36	to examine the adequacy of the frequency allocations for HF broadcasting from about 4 MHz to 10 MHz, taking into account the seasonal planning procedures adopted by WRC-97	Chapter 5, § 5.7
1.37	to consider the regulatory and technical provisions for satellite networks using highly elliptical orbits	Chapter 3, § 3.7

1.38	to consider provision of up to 6 MHz of frequency spectrum to the Earth exploration-satellite service (active) in the frequency band 420-470 MHz, in accordance with Resolution <b>727 (Rev.WRC-2000)</b>	Chapter 2, § 2.10
1.39	to examine the spectrum requirements in the fixed-satellite service bands below 17 GHz for telemetry, tracking and telecommand of fixed-satellite service networks operating with service links in the frequency bands above 17 GHz	Chapter 3, § 3.8
2.	to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution <b>28 (Rev.WRC-2000)</b> , and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with principles contained in the Annex to Resolution <b>27 (Rev.WRC-2000)</b>	Chapter 6, § 6.2
3.	to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference	Not in scope of CPM
4.	in accordance with Resolution <b>95 (Rev.WRC-2000)</b> , to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation	Chapter 6, § 6.3
5.	to review, and take appropriate action on, the report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention	Not in scope of CPM
6.	to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference	Not in scope of CPM
7	in accordance with Article 7 of the Convention:	
7.1	to consider and approve the Report of the Director of the Radiocommunication Bureau on the activities of the Radiocommunication Sector since WRC-2000, including on any difficulties or inconsistencies encountered in the application of the Radio Regulations, and action in response to Resolution <b>80 (Rev.WRC-2000)</b>	Chapter 6, § 6.4
7.2	to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, taking into account Resolution <b>801 (WRC-2000)</b>	Chapter 7, § 7.3

## List of the abbreviations

App.	Appendix
Art.	Article
BR	Radiocommunication Bureau
DNR	Draft new Recommendation
DRR	Draft revised Recommendation
GSO	Geostationary
non-GSO	non-geostationary
Rec.	Recommendation
Res.	Resolution
RR	Radio Regulations
AMS	aeronautical mobile service
AMSS	aeronautical mobile-satellite service
ARNS	aeronautical radionavigation service
ARNSS	aeronautical radionavigation-satellite service
BS	broadcasting service
BSS	broadcasting-satellite service
EESS	Earth exploration-satellite service
FS	fixed service
FSS	fixed-satellite service
ISS	inter-satellite service
LMS	land mobile service
LMSS	land mobile-satellite service
MetAids	meteorological aids service
MetSat	meteorological-satellite service
MMS	maritime mobile service
MMSS	maritime mobile-satellite service
MRNS	maritime radionavigation service
MRNSS	maritime radionavigation-satellite service
MS	mobile service
MSS	mobile-satellite service
RAS	radio astronomy service
RDS	radiodetermination service
RDSS	radiodetermination-satellite service
RLS	radiolocation service
RLSS	radiolocation-satellite service
RNS	radionavigation service
RNSS	radionavigation-satellite service
SOS	space operation service
SRS	space research service

## CPM Report to WRC-03

### CONTENTS

Introduction to the CPM Report to WRC-03 .....	
Chapter 1: Radionavigation, radionavigation-satellite and radiolocation services .....	
Chapter 2: Mobile, mobile-satellite and space science services.....	
Chapter 3: Issues concerning fixed-satellite and broadcasting-satellite services .....	
Chapter 4: Fixed and fixed-satellite services and high altitude platform systems .....	
Chapter 5: Maritime mobile, amateur and amateur-satellite, and broadcasting services in MF and HF bands .....	
Chapter 6: Other Matters .....	
Chapter 7: Future work programme .....	
Annex to the CPM Report.....	

## **I Introduction to the CPM Report to WRC-03**

This CPM Report to WRC-03 is provided to assist the ITU Member States and the Radiocommunication Sector Members who will be involved in the preparations of the 2003 World Radiocommunication Conference. It represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-03 agenda, available at the time of its preparation.

### **I.1 Origin and purpose of CPM-02**

At its 2000 session, the ITU Council, in Resolution 1156, resolved to convene a World Radiocommunication Conference (WRC-03) from 9 June to 4 July 2003 and established the agenda on the basis of Resolution 800 (WRC-2000). At its 2002 session the Council modified its resolution with regard to the venue without changing the agenda itself (see Appendix I.1). The Plenipotentiary Conference, Marrakesh, 2002, in its Resolution COM 6/5 confirmed the dates of WRC-03 and resolved that it will be convened in Geneva (Switzerland).

The 2000 Radiocommunication Assembly by its Resolution ITU-R 2-3 re-confirmed that preparatory studies for a WRC are to be carried out by a Conference Preparatory Meeting (CPM) and appointed Mr. E. George (Germany) as the Chairman of CPM-02, Ms. V. Rawat (Canada) and Mr. M. Ghazal (Lebanon) as the Vice-Chairmen.

All administrations of the ITU Member States and the Radiocommunication Sector Members were invited to participate in the preparation of the CPM Report to WRC-03.

### **I.2 Organization of the ITU-R preparation for the conference**

The organization of the conference preparatory work is shown in Figure I-1.

On the basis of contributions from administrations, the Radiocommunication Study Groups, the Special Committee, and other sources concerning the technical, operational and regulatory and procedural matters to be considered by radiocommunication conferences, the CPM prepares a consolidated report for such conferences, (see Resolution ITU-R 2-3).

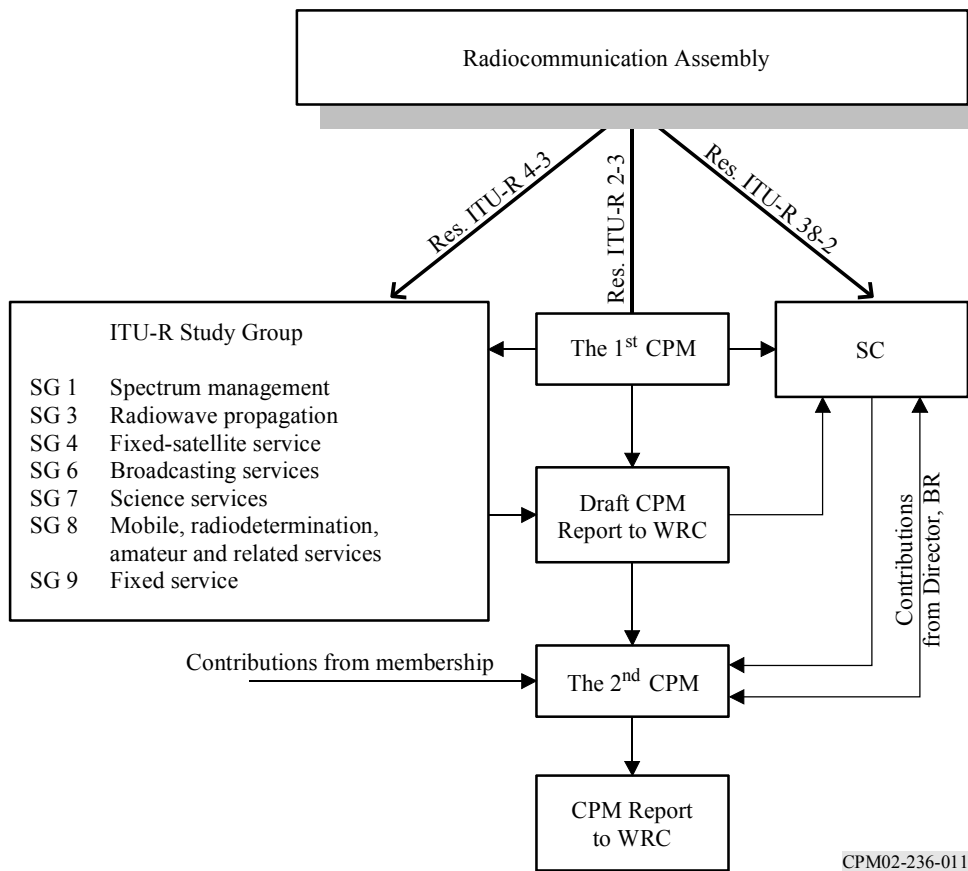
The first Conference Preparatory Meeting (Istanbul, 7-8 June 2000) organized preparatory studies for WRC-03 and identified studies for the following WRC. A structure for the CPM Report to WRC-03 was agreed together with a preparatory process, working procedures and a chapter



structure. The meeting appointed a Rapporteur for each chapter to assist the Chairman in managing the development and flow of draft report contributions.

The meeting also decided that all appropriate regulatory and procedural studies on relevant agenda items would be carried out by the Special Committee on Regulatory/Procedural matters (SCRPM), activated by WRC-2000 in accordance with Resolution ITU-R 38-2, on the basis of proposals from the membership of the ITU and the relevant ITU-R Study Groups and their Working Parties, Task Groups and Joint Task Groups. According to Resolution ITU-R 38-2 the results of the studies shall be submitted as contributions to the work of the CPM in preparing its report to the relevant WRC.

FIGURE 1-1  
Organization of the ITU-R conference preparatory work



The ITU-R preparations for WRC-03 were concentrated in the following groups (listed in the order of the Study Groups):

**Study Group 1** chaired by Mr. R. Mayher (USA), TG 1/7 chaired by Mr. W. Baan (the Netherlands) and Mr. S. Doiron (USA), WP 1A chaired by Mr. T. Jeacock (UK);

**Study Group 3** chaired by Mr. D.G. Cole (Australia) provided technical support on propagation matters where needed.

**Study Group 4** chaired by Mr. Y. Ito (Japan), WP 4A chaired by Mr. A.G. Reed (UK), WP 4-9S chaired by Mr. W. Rummler (USA), JTG 4-7-8 chaired by Ms. H. Fauve-Buresi (France);

**Study Group 6** chaired by Mr. A. Magenta (Italy), WP 6E chaired by Mr. L. Olson (USA), WP 6S chaired by Mr. R. Zeitoun (Canada);

**Study Group 7** chaired by Mr. R.M. Taylor (USA), WP 7B chaired by Mrs. S. Taylor (USA), WP 7C chaired by Mr. E. Marelli (ESA), WP 7D chaired by Mr. M. Ohishi (Japan), WP 7E chaired by Mr. J. Miller (USA), JTG 4-7-8-9 chaired by Mr. J. Zuzek (USA);

**Study Group 8** chaired by Mr. C. van Diepenbeek (the Netherlands), WP 8A chaired by Mr. S. Towajj (Canada), WP 8B chaired by Mr. R.L. Swanson (USA), WP 8D chaired by Mr. T. Mizuike (Japan), WP 8F chaired by Mr. S. Blust (USA);

**Study Group 9** chaired by Mr. V. Minkin (Russia), WP 9B and JTG 1-6-8-9 chaired by Mr. A. Hashimoto (Japan), WP 9D chaired by Ms. K. Medley (USA).

**The Special Committee on Regulatory/Procedural Matters** chaired by Mr. F. Rancy (France) provided the regulatory and procedural texts.

### **I.3 Preparation of the CPM Report to WRC-03**

A draft CPM Report had been prepared by the Chapter Rapporteurs and the Chairmen of the relevant SGs, TGs and WPs on the basis of contributions from the relevant groups. The work was coordinated by Mr. E. George (Germany), Chairman of CPM-02. Staff of the Radiocommunication Bureau provided the required assistance. The draft CPM Report was distributed to all Member States and to of the Radiocommunication Sector Members as Document CPM 02-2/1.

The CPM-02 met in Geneva from 18 to 29 November 2002 under the chairmanship of Mr. E. George (Germany) to consider the draft CPM Report (Document CPM 02-2/1) together with the SCPRM Report (Document CPM02-2/2), contributions from the ITU membership and additional material submitted by the Radiocommunication Bureau.

About 1 000 participants represented 88 Member States and 80 Radiocommunication Sector Members, including international organizations.

**176** contributions including the draft CPM Report (Document CPM02-2/1) and the SCPRM Report (Document CPM02-2/2) were submitted for consideration by the CPM-02.

At CPM-02 the contributions were attributed to Working Groups 1 – 7 for preparation of the final text for each Chapter according to the following adopted structure.

Chairman, CPM-02	E. George (Germany)
Vice-Chairman, CPM-02	V. Rawat (Canada)
Vice-Chairman, CPM-02	M. Ghazal (Lebanon)
Secretary, CPM-02	A. Nalbandian (ITU BR)

<b>WG</b>	<b>Topic</b>	<b>Rapporteur</b>	<b>SCRPM Assistant</b>	<b>BR Secretary</b>
WG 1	<b>RNS, RNSS. RLS issues</b> (Chapter 1)	V. Meens (France)	Mr. S. Sayeenathan (India)	A. Matas
WG 2	<b>MS/MSS and SSS</b> (Chapter 2)	A. Jamieson (New Zealand) M. Gaudreau (Canada)	Mr. S. Sayeenathan (India) Mr. K. Kosaka (Japan)	C. Langtry
WG 3	<b>FSS and BSS issues</b> (Chapter 3)	D. Jansky (USA)	Mr. E. Davison (USA) Mr. J. Chartier (France)	J. Li
WG 4	<b>FS, FSS and HAPS</b> (Chapter 4)	M. Dreis (Germany)	Mr. E. Davison (USA) Mr. K. Kosaka (Japan)	L. Casado
WG 5	<b>MF and HF bands</b> (Chapter 5)	D. Messer (USA)	Mr. F. Williams (USA)	N. Vassiliev
WG 6	<b>Other matters</b> (Chapter 6, Introduction)	N. Kisrawi (Syria)	Mr. F. Williams (USA)	P. Lundborg
WG 7	<b>Future work programme</b> (Chapter 7)	V. Rawat (Canada)		D. Schuster

### **Editorial Group**

F. Sillard (France)                      French  
L. Barclay (UK)                         English  
C. Menéndez (Spain)                  Spanish  
F. Lagrana (BR Secretary)

Editorial work was carried out in order to align the CPM Report in the French, English and Spanish languages.

The meeting was successful in approving the CPM Report to WRC-03.

### **I.4 Presentation and structure of the Report**

The Report is structured to follow the topics of the WRC-03 Agenda. Its outline was developed and approved by the first CPM at its meeting in June 2000. A cross-reference list is provided to facilitate finding specific topics within the framework of the WRC-03 agenda.

The Report comprises seven Chapters and an Annex.

**Chapter 1** contains material relating to the RNS, RNSS and RLS (Agenda items 1.4, 1.15, 1.17, 1.24, 1.28).

**Chapter 2** contains material relating to the MS, MSS and SSS (Agenda items 1.3, 1.5, 1.6, 1.11, 1.12, 1.16, 1.20, 1.31, 1.33, 1.38).

**Chapter 3** covers the issues concerning FSS and BSS (Agenda items 1.19, 1.27, 1.29, 1.30, 1.34, 1.35, 1.37, 1.39).

**Chapter 4** contains material relating to the FS and FSS and HAPS (Agenda items 1.13, 1.18, 1.25, 1.26, 1.32)

**Chapter 5** contains material relating to the MMS, AS and ASS, and BS in MF and HF bands (Agenda items 1.2, 1.7, 1.9, 1.10, 1.14, 1.23, 1.36)

**Chapter 6** contains material relating to spurious emissions (Agenda item 1.8). It also contains information for action by WRC-03 on the revised ITU-R Recommendations incorporated by reference in the Radio Regulations in accordance with Resolution **28 (Rev.WRC-2000)** (Agenda item 2), on Resolutions and Recommendations pertaining to issues arising from consideration of Resolution **95 (Rev.WRC-2000)** (Agenda item 4) and on the activities of the Radiocommunication Sector since WRC-2000 (Agenda item 7.1).

**Chapter 7** contains material relating to the future work programme (Agenda items 1.21, 1.22, 7.2)

The Annex contains a list of the ITU-R Recommendations including certain draft new and revised Recommendations which are referred to in the text of this Report. The final version of this list reflecting the decisions of the 2003 Radiocommunication Assembly will be prepared by the Radiocommunication Bureau and made available to the 2003 World Radiocommunication Conference.

NOTE: The following indicators have been used throughout the text:

\*\*\*\*\* this indicates the end of the new or revised RR provision;

##### this indicates the end of the section or subsection.

## APPENDIX I.1

### RESOLUTION 1156 (MODIFIED)

#### **Agenda for the World Radiocommunication Conference (WRC-03)**

The Council,

*noting*

that Resolution 800 of the World Radiocommunication Conference (Istanbul, 2000):

- a) resolved to recommend to the Council that a world radiocommunication conference be held in 2003 for a period of four weeks;
- b) recommended its agenda, and invited the Council to finalize the agenda and arrange for the convening of WRC-03 and to initiate as soon as possible the necessary consultation with Member States,

*resolves*

to convene a World Radiocommunication Conference (WRC-03) in Caracas (Venezuela) from 9 June to 4 July 2003 with the following agenda:

1 on the basis of proposals from administrations and the Report of the Conference Preparatory Meeting, taking account of the results of WRC-2000, and with due regard to the requirements of existing and future services in the bands under consideration, to consider and take appropriate action with respect to the following items:

1.1 requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, in accordance with Resolution **26 (Rev.WRC-97)**;

1.2 to review and take action, as required, on No.-**5.134** and related Resolutions **517 (Rev.WRC-97)** and **537 (WRC-97)** and Recommendations **515 (Rev.WRC-97)**, **517 (HFBC-87)**, **519 (WARC-92)** and Appendix **11**, in the light of the studies and actions set out therein, having particular regard to the advancement of new modulation techniques, including digital techniques, capable of providing an optimum balance between sound quality, bandwidth and circuit reliability in the use of the HF bands allocated to the broadcasting service;

1.3 to consider identification of globally/regionally harmonized bands, to the extent practicable, for the implementation of future advanced solutions to meet the needs of public protection agencies, including those dealing with emergency situations and disaster relief, and to make regulatory provisions, as necessary, taking into account Resolution **645 (WRC-2000)**;

1.4 to consider the results of studies related to Resolution **114 (WRC-95)**, dealing with the use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth-to-space) (limited to non-GSO MSS feeder links), and review the allocations to the aeronautical radionavigation service and the fixed-satellite service in the band 5 091-5 150 MHz;

- 1.5 to consider, in accordance with Resolution **736 (WRC-2000)**, regulatory provisions and spectrum requirements for new and additional allocations to the mobile, fixed, Earth exploration-satellite and space research services, and to review the status of the radiolocation service in the frequency range 5 150-5 725 MHz, with a view to upgrading it, taking into account the results of ITU-R studies;
- 1.6 to consider regulatory measures to protect feeder links (Earth-to-space) for the mobile-satellite service which operate in the band 5 150-5 250 MHz, taking into account the latest ITU-R Recommendations (for example, Recommendations ITU-R S.1426, ITU-R S.1427 and ITU-R M.1454);
- 1.7 to consider issues concerning the amateur and amateur-satellite services:
  - 1.7.1 possible revision of Article **25**;
  - 1.7.2 review of the provisions of Article **19** concerning the formation of call signs in the amateur services in order to provide flexibility for administrations;
  - 1.7.3 review of the terms and definitions of Article **1** to the extent required as a consequence of changes made in Article **25**;
- 1.8 to consider issues related to unwanted emissions:
  - 1.8.1 consideration of the results of studies regarding the boundary between spurious and out-of-band emissions, with a view to including the boundary in Appendix **3**;
  - 1.8.2 consideration of the results of studies, and proposal of any regulatory measures regarding the protection of passive services from unwanted emissions, in particular from space service transmissions, in response to *recommends* 5 and 6 of Recommendation **66 (Rev.WRC-2000)**;
- 1.9 to consider Appendix **13** and Resolution **331 (Rev.WRC-97)** with a view to their deletion and, if appropriate, to consider related changes to Chapter SVII and other provisions of the Radio Regulations, as necessary, taking into account the continued transition to and introduction of the Global Maritime Distress and Safety System (GMDSS);
- 1.10 to consider the results of studies, and take necessary actions, relating to:
  - 1.10.1 exhaustion of the maritime mobile service identity numbering resource (Resolution **344 (WRC-97)**);
  - 1.10.2 shore-to-ship distress communication priorities (Resolution **348 (WRC-97)**);
- 1.11 to consider possible extension of the allocation to the mobile-satellite service (Earth-to-space) on a secondary basis in the band 14-14.5 GHz to permit operation of the aeronautical mobile-satellite service as stipulated in Resolution **216 (Rev.WRC-2000)**;
- 1.12 to consider allocations and regulatory issues related to the space science services in accordance with Resolution **723 (Rev.WRC-2000)** and to review all Earth exploration-satellite service and space research service allocations between 35 and 38 GHz, taking into account Resolution **730 (WRC-2000)**;
- 1.13 to consider regulatory provisions and possible identification of existing frequency allocations for services which may be used by high altitude platform stations, taking into account No. **5.543A** and the results of the ITU-R studies conducted in accordance with Resolutions **122 (Rev.WRC-2000)** and **734 (WRC-2000)**;

- 1.14 to consider measures to address harmful interference in the bands allocated to the maritime mobile and aeronautical mobile (R) services, taking into account Resolutions **207 (Rev.WRC-2000)** and **350 (WRC-2000)**, and to review the frequency and channel arrangements in the maritime MF and HF bands concerning the use of new digital technology, also taking into account Resolution **347 (WRC-97)**;
- 1.15 to review the results of studies concerning the radionavigation-satellite service in accordance with Resolutions **604 (WRC-2000)**, **605 (WRC-2000)** and **606 (WRC-2000)**;
- 1.16 to consider allocations on a worldwide basis for feeder links in bands around 1.4 GHz to the non-GSO MSS with service links operating below 1 GHz, taking into account the results of ITU-R studies conducted in response to Resolution **127 (Rev.WRC-2000)**, provided that due recognition is given to the passive services, taking into account No. **5.340**;
- 1.17 to consider upgrading the allocation to the radiolocation service in the frequency range 2 900-3 100 MHz to primary;
- 1.18 to consider a primary allocation to the fixed service in the band 17.3-17.7 GHz for Region 1, taking into account the primary allocations to various services in all three Regions;
- 1.19 to consider regulatory provisions to avoid misapplication of the non-GSO FSS single-entry limits in Article **22** based on the results of ITU-R studies carried out in accordance with Resolution **135 (WRC-2000)**;
- 1.20 to consider additional allocations on a worldwide basis for the non-GSO MSS with service links operating below 1 GHz, in accordance with Resolution **214 (Rev.WRC-2000)**;
- 1.21 to consider progress of the ITU-R studies concerning the technical and regulatory requirements of terrestrial wireless interactive multimedia applications, in accordance with Resolution **737 (WRC-2000)**, with a view to facilitating global harmonization;
- 1.22 to consider progress of ITU-R studies concerning future development of IMT-2000 and systems beyond IMT-2000, in accordance with Resolution **228 (WRC-2000)**;
- 1.23 to consider realignment of the allocations to the amateur, amateur-satellite and broadcasting services around 7 MHz on a worldwide basis, taking into account Recommendation **718 (WARC-92)**;
- 1.24 to review the usage of the band 13.75-14 GHz, in accordance with Resolution **733 (WRC-2000)**, with a view to addressing sharing conditions;
- 1.25 to consider, with a view to global harmonization to the greatest extent possible, having due regard to not constraining the development of other services, and in particular of the fixed service and the broadcasting-satellite service, regulatory provisions and possible identification of spectrum for high-density systems in the fixed-satellite service above 17.3 GHz, focusing particularly on frequency bands above 19.7 GHz;
- 1.26 to consider the provisions under which earth stations located on board vessels could operate in fixed-satellite service networks, taking into account the ITU-R studies in response to Resolution **82 (WRC-2000)**;
- 1.27 to review, in accordance with Resolutions **540 (WRC-2000)** and **735 (WRC-2000)**, the ITU-R studies requested in those resolutions, and modify, as appropriate, the relevant regulatory procedures and associated sharing criteria contained in Appendices **30** and **30A** and in the associated provisions;
- 1.28 to permit the use of the band 108-117.975 MHz for the transmission of radionavigation satellite differential correction signals by ICAO standard ground-based systems;

- 1.29 to consider the results of studies related to Resolutions **136 (WRC-2000)** and **78 (WRC-2000)** dealing with sharing between non-GSO and GSO systems;
- 1.30 to consider possible changes to the procedures for the advance publication, coordination and notification of satellite networks in response to Resolution **86** (Minneapolis, 1998);
- 1.31 to consider the additional allocations to the mobile-satellite service in the 1-3 GHz band, in accordance with Resolutions **226 (WRC-2000)** and **227 (WRC-2000)**;
- 1.32 to consider technical and regulatory provisions concerning the band 37.5-43.5 GHz, in accordance with Resolutions **128 (Rev.WRC-2000)** and **84 (WRC-2000)**;
- 1.33 to review and revise technical, operational and regulatory provisions, including provisional limits in relation to the operation of high altitude platform stations within IMT-2000 in the bands referred to in No. **5.388A**, in response to Resolution **221 (WRC-2000)**;
- 1.34 to review the results of studies in response to Resolution **539 (WRC-2000)** concerning threshold values for non-GSO BSS (sound) in the band 2 630-2 655 MHz, and to take actions as required;
- 1.35 to consider the report of the Director of the Radiocommunication Bureau on the results of the analysis in accordance with Resolution **53 (Rev.WRC-2000)** and take appropriate action;
- 1.36 to examine the adequacy of the frequency allocations for HF broadcasting from about 4 MHz to 10 MHz, taking into account the seasonal planning procedures adopted by WRC-97;
- 1.37 to consider the regulatory and technical provisions for satellite networks using highly elliptical orbits;
- 1.38 to consider provision of up to 6 MHz of frequency spectrum to the Earth exploration-satellite service (active) in the frequency band 420-470 MHz, in accordance with Resolution **727 (Rev.WRC-2000)**;
- 1.39 to examine the spectrum requirements in the fixed-satellite service bands below 17 GHz for telemetry, tracking and telecommand of fixed-satellite service networks operating with service links in the frequency bands above 17 GHz;
- 2 to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution **28 (Rev.WRC-2000)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with principles contained in the Annex to Resolution **27 (Rev.WRC-2000)**;
- 3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;
- 4 in accordance with Resolution **95 (Rev.WRC-2000)**, to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;
- 5 to review, and take appropriate action on, the report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention;
- 6 to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;
- 7 in accordance with Article 7 of the Convention:



7.1 to consider and approve the Report of the Director of the Radiocommunication Bureau on the activities of the Radiocommunication Sector since WRC-2000, including on any difficulties or inconsistencies encountered in the application of the Radio Regulations, and action in response to Resolution **80 (Rev.WRC-2000)**;

7.2 to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, taking into account Resolution **801 (WRC-2000)**,

*instructs the Director of the Radiocommunication Bureau*

to make the necessary arrangements to convene the Conference Preparatory Meeting and to prepare a report to WRC-03,

*instructs the Secretary-General*

1 to make all the necessary arrangements, in agreement with the Director of the Radiocommunication Bureau, for the convening of the Conference;

2 to communicate this resolution to international and regional organizations concerned.