ITU activity for Space Science Services

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ITU Overview

191 Member States
+700 Sector Members

ITU

Helping the World Communicate

ITU-T

Telecommunication standardization of network and service aspects

ITU-D

Assisting implementation and operation of telecommunications in developing countries

ITU-R

Radiocommunication standardization and global radio spectrum management

ITU–R

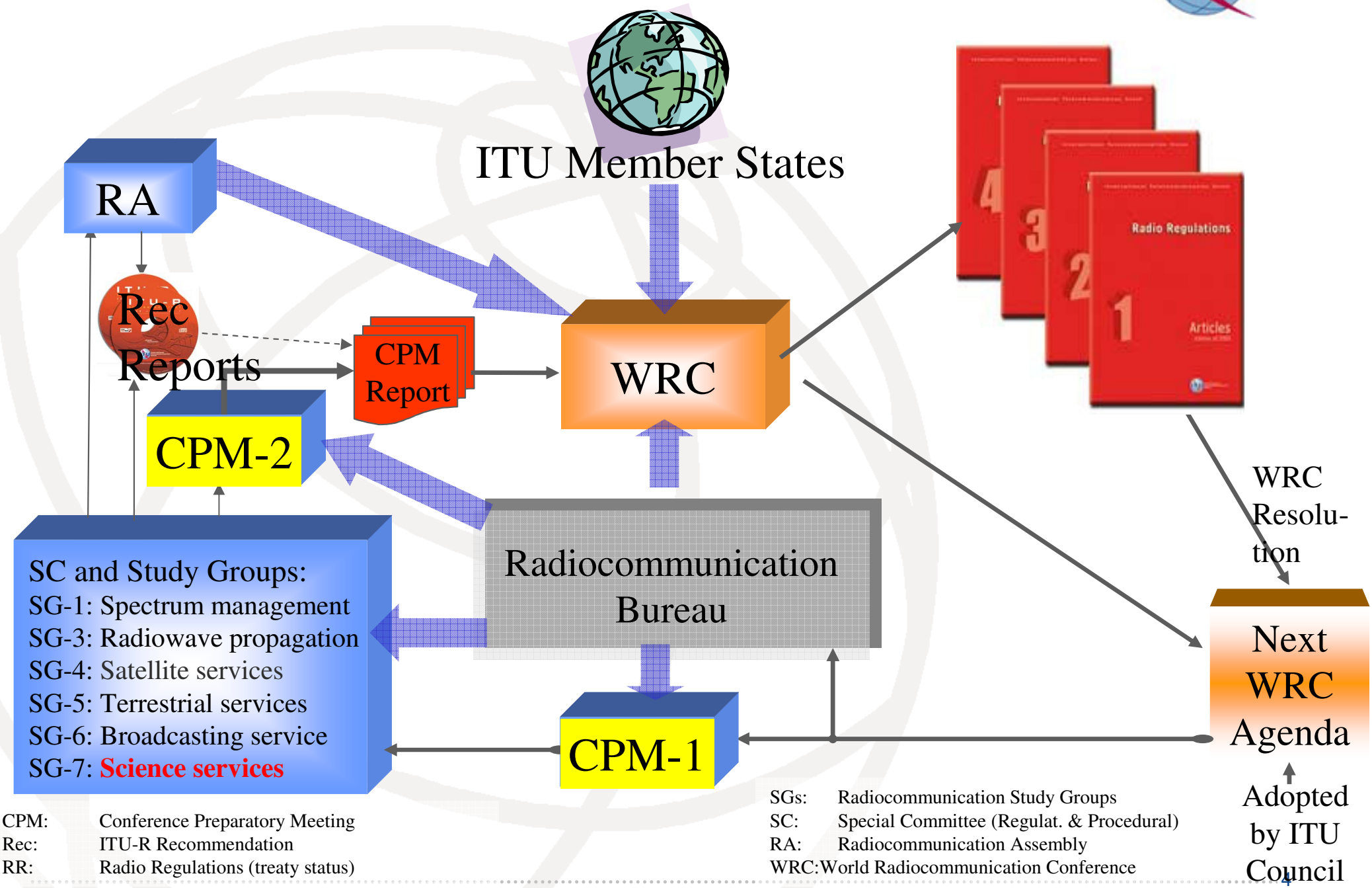
The strategic goal of ITU-R

- To ensure interference-free operations of radiocommunication systems by implementing the Radio Regulations
- To establish Recommendations intended to assure the necessary performance and quality in operating radiocommunication systems
- to ensure the rational, equitable, efficient and economical use of the radio-frequency spectrum and satellite-orbit resources

RESOLUTION 71 (REV. GUADALAJARA, 2010)

The WRC Cycle

Committed to Connecting the World



CPM: Conference Preparatory Meeting
Rec: ITU-R Recommendation
RR: Radio Regulations (treaty status)

SGs: Radiocommunication Study Groups
SC: Special Committee (Regulat. & Procedural)
RA: Radiocommunication Assembly
WRC: World Radiocommunication Conference

CPM2-11

- 14-25.02.11, 1101 participants, 109 Member States and 69 ITU-R Sector members
- long-range lightning detection systems in frequencies below 20 kHz
- new allocation of the band 7750-7850 MHz for meteorological satellite systems

CPM2-11

- additional spectrum between 275 GHz and 3000 GHz for Earth exploration satellite service.
- inclusion of a new provision in the RR urging administrations to duly recognize the importance of Earth observation;
- radiolocation allocations in the range 3-50 MHz for oceanographic radars

CPM2-11

- Draft Mod Resolution "Principles for the allocation of frequency bands"

New *considering*

"that ITU should promote the introduction of new applications to address issues such as emerging technologies, climate change(e.g. collection of Earth observation data), disaster management and other socio-economic matters"

ITU-R SG 7

	WP 7A	WP 7B	WP 7C	WP 7D
Services	SFTSS(S)	EESS, Metsat, SRS, SOS		RA
		Bus	Sensors	
WRC-12	---	1.11,1.12, 1.24	1.16	---
Study results	14 Recs Series TF 2 Handbooks	Series SA 48 Recs 13 Reports Handbook	Series RS 30 Recs 15 Reports 2 Handbooks	Series RA 14 Recs. 8 Reports Handbook

http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rsg7&lang=en

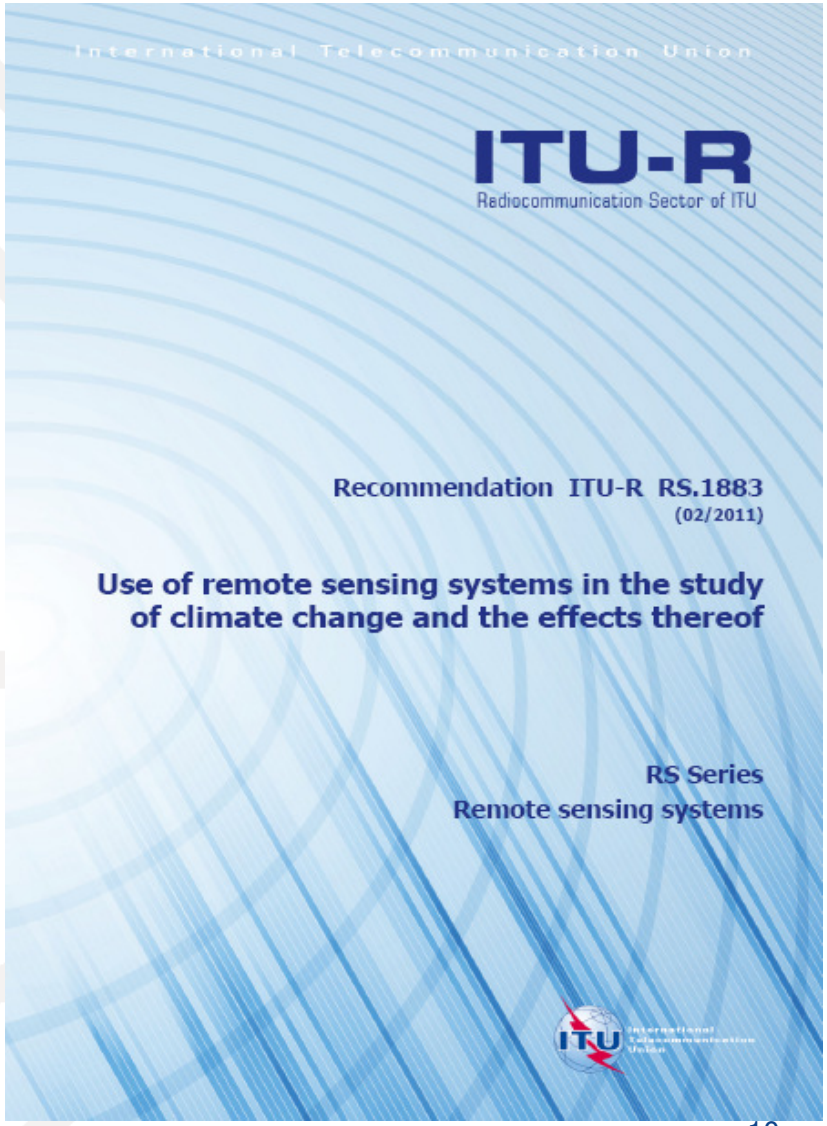
ITU-R SG7 highlights

- an extensive overview of the use of spectrum by Earth observation radiocommunication applications
- overview of solar radio monitoring applications
- benefits from spectrum use by the radio space service

http://www.itu.int/pub/R-REP-RS.2178-2010

ITU-R SG7 highlights

- Guidelines on the provision of satellite-provided remote sensing data for the purpose of studying climate change
- summary of status of major climate variables and forcing factors



http://www.itu.int/rec/R-REC-RS.1883-0-201102-I/en

ITU-R SG7 highlights

- New EARTH EXPLORATION-SATELLITE SERVICE Handbook 2011
- development of EESS systems. basic definitions, technical principles and applications
- to assist administrations in spectrum planning, engineering and deployment aspects

ITU-R Notification activity

- International recognition of satellite systems derived from recording in Master International Frequency register (MIFR)
- Recorded space science systems:

  50 Metsat systems

  209 space research systems

  140 earth exploration satellite systems

Questions?