



ITU activity for Space Science Services

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Study Group Department

Radiocommunication Bureau

International Telecommunication Union

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



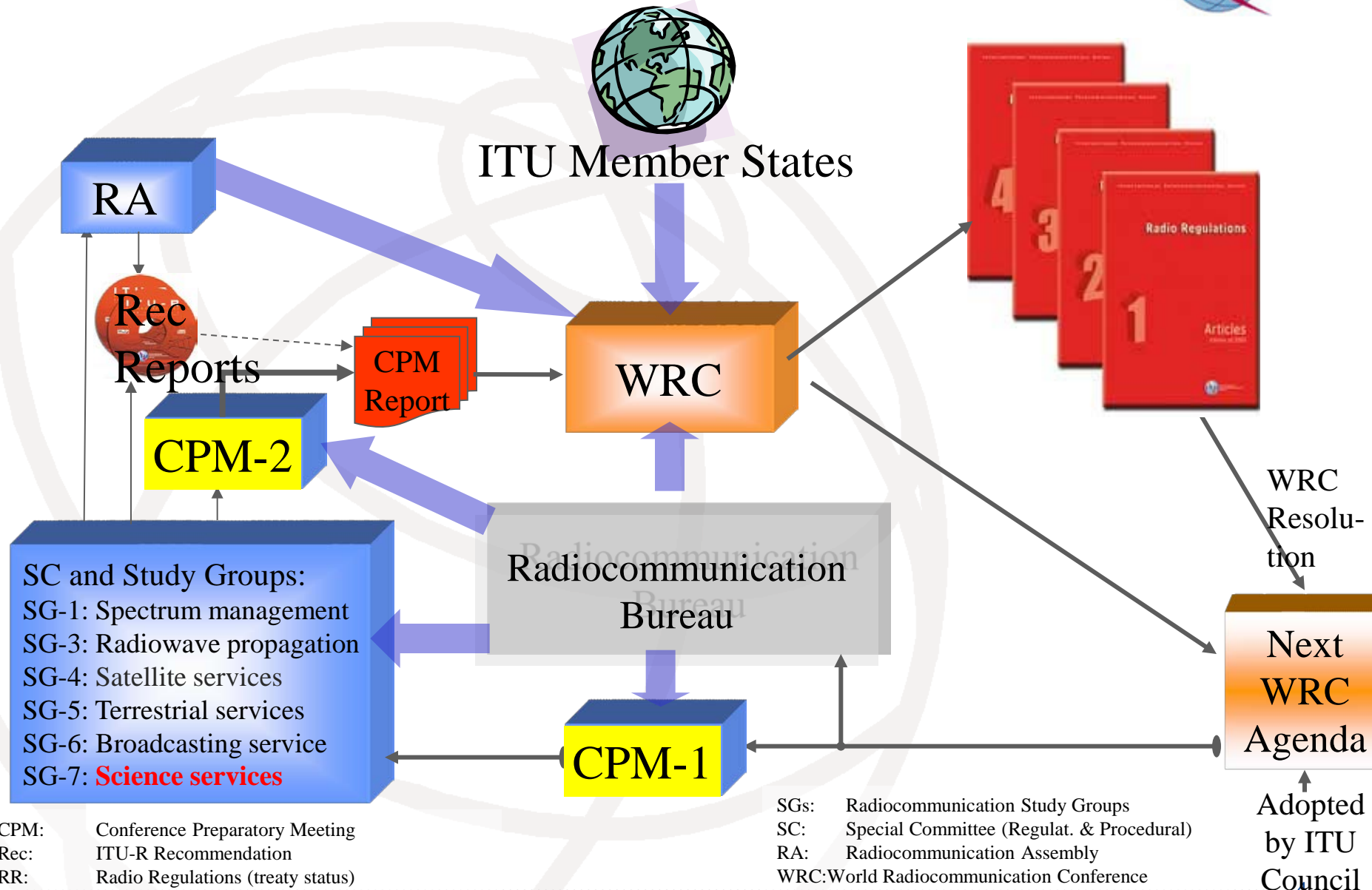
ITU-R

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

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

Adopted by ITU Council



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”



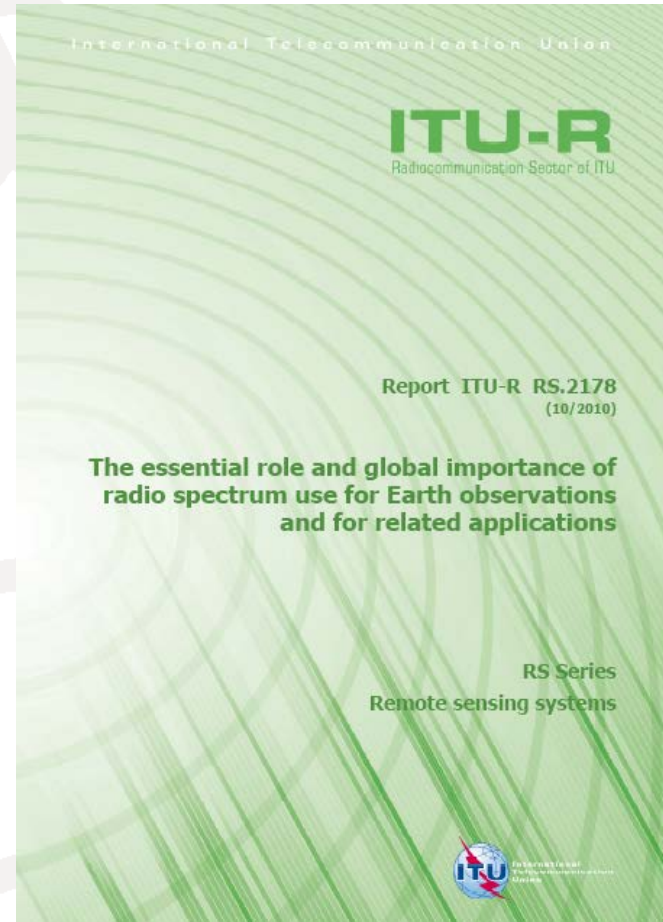
ITU-R SG 7

	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&mlink=rsg7&lang=en>

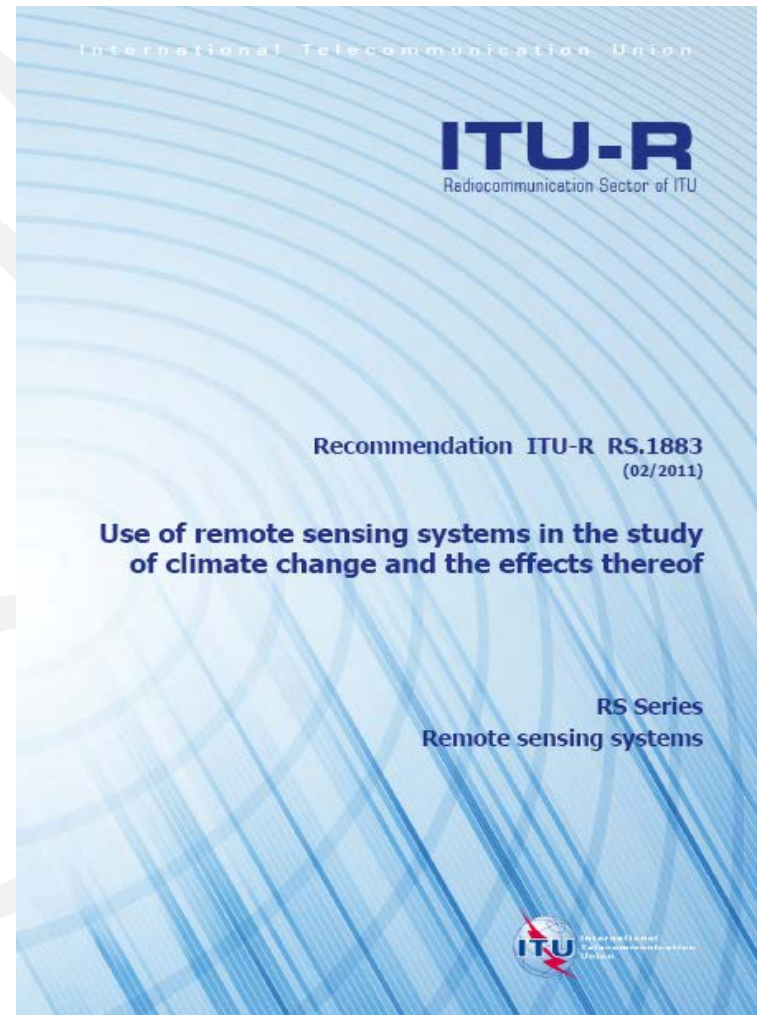
ITU-R SG7 highlights

- 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



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





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?