



ITU and international spectrum management

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ITU overview

Since 17 May 1865

ITU

193 Member States
+700 Sector Members

Helping the World Communicate

ITU-T

Standardization of telecommunication, ICTs, regulation of numbering, international tariffs



ITU-D

Assisting implementation and operation of telecommunications in developing countries

ITU-R

Radiocommunication standardization and global radio spectrum management



ITU-R activity

International treaty: Radio Regulations

International standardization:

Recommendations, Reports, Handbooks.

**International Master Frequency Register
(satellites and terrestrial)**

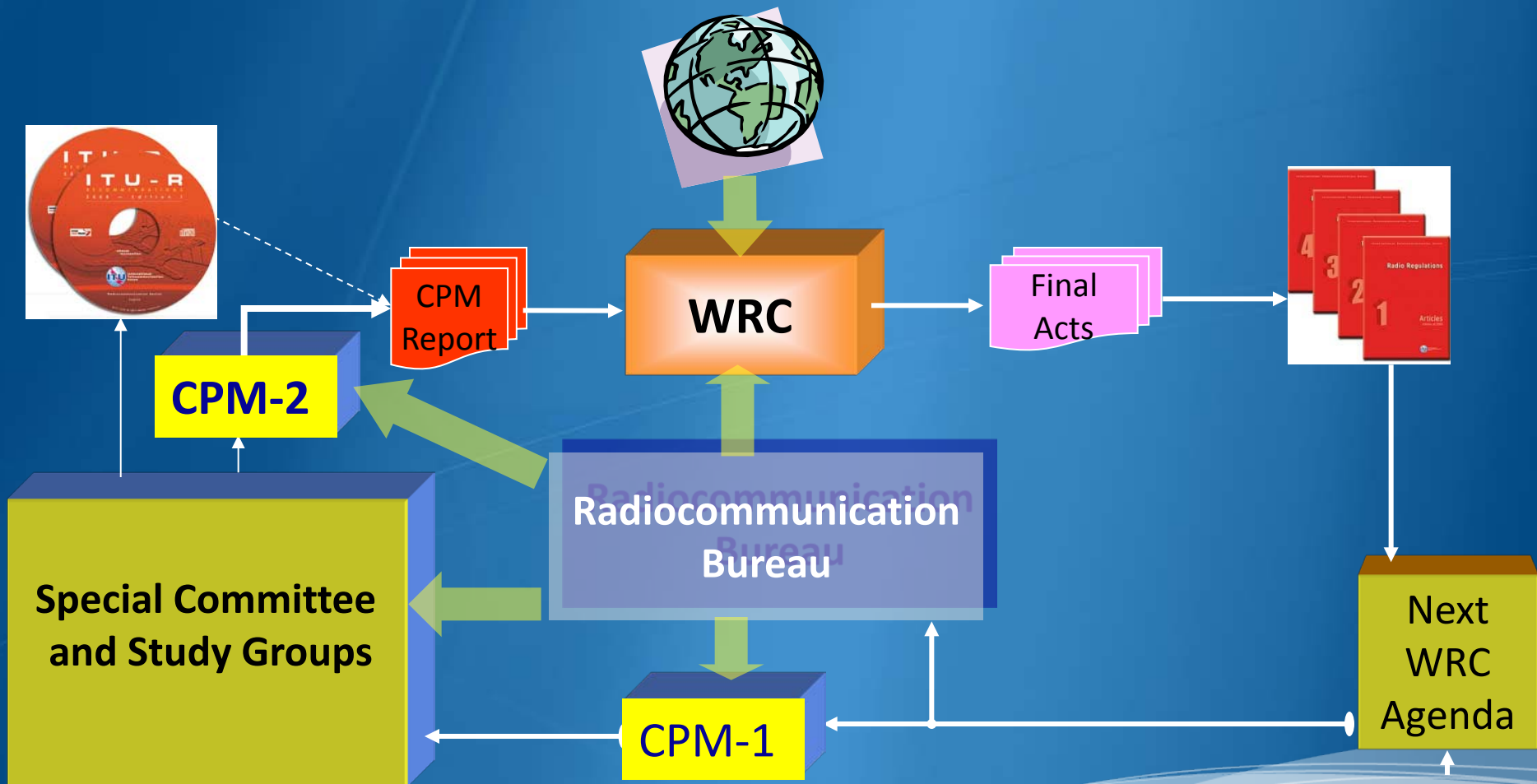
International recognition of frequency
assignments





WRC process

ITU Member States



ITU-R Study Groups

- SG 1 Spectrum management
- SG 3 Radiowave propagation
- SG 4 Satellite services
- SG 5 Terrestrial services
- SG 6 Broadcasting service
- SG 7 Science services:

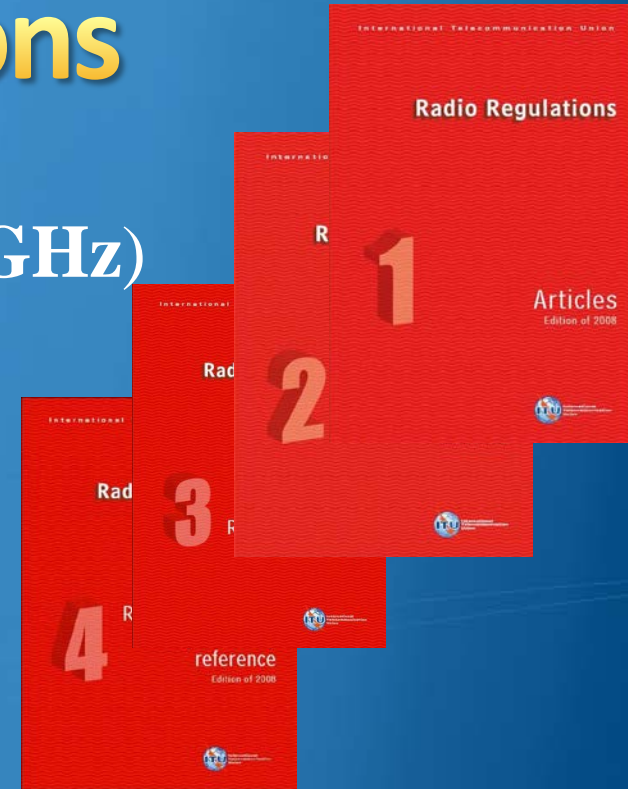
standard frequency and time signal, space research, space operation, Earth exploration-satellite, meteorological-satellite, meteorological aids and radio astronomy.

Radio Regulations

Table of Frequency Allocations RR Article 5 (from 8.3 kHz to 3000 GHz)

Two main concepts:

- Frequency block allocations for use by radio services
- common frequency allocations to mutually compatible services with similar technical characteristics in specific parts of the spectrum
- ✓ is a stable planning environment for administrations, for equipment manufacturers and for users
- ✓ Voluntary or obligatory regulatory procedures adapted to the allocation structure and vary from service to service



Radio Regulations

1

**Radio
Regulations
Articles**

Edition of 2012



Radioastronomy in RR

1.13 radio astronomy-astronomy based on the reception of radio waves of cosmic origin

29.5 § 2 The locations of the radio astronomy stations to be protected and their frequencies of observation shall be notified to the Bureau in accordance with No. **11.12** and published in accordance with No. **20.16** for communication to Member States.

11.12 Any frequency to be used for reception by a particular radio astronomy station may be notified if it is desired that such data be included in the Master Register.

<http://www.itu.int/rec/R-REC-RA/en>

New ITU-R study question



Microsoft Word
Document

