International Telecommunication Union

Radiocommunication Study Groups

WORLD RADIOCOMMUNICATION SEMINAR 2012

GENEVA, 3-7 DECEMBER 2012

www.itu.int/ITU-R/go/WRS-12



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Roles of ITU Radiocommunication Sector





international regulations



global standards & guidelines



assistance to administrations

- Rights of access to the spectrum
- Efficient use of spectrum
- ✓ Operation free from interference
- Economies of scale
- Interoperability and roaming
- ✓ Global harmonization
- Guidelines for national
 & regional regulations

GOOD QUALITY AND LESS COSTLY EQUIPMENT

MORE FAVORABLE INVESTMENT ENVIRONMENT (CLEAR & STABLE)



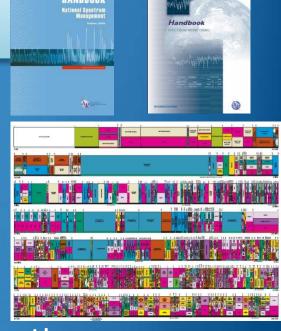
International spectrum management framework

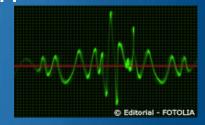
ITU Constitution, Convention	High level principles, rights and obligations	Plenipot		
Radio Regulations Bi/multilateral Agreements	Table of Frequency Allocations Satellite orbit/terrestrial Plans Frequency coordination	WRC RRC		
ITU-R Recommendations	Frequency registration Emergency procedures	RA/		
	Technical characteristics	Mail		
	Sharing criteria/assessment			
ITU-R Reports, Handbooks, software tools	Spectrum management Operational aspects	Study Groups WPs, TGs		



Study Group 1 Spectrum management

Spectrum Management (SM) -principles and techniques General principles of sharing Spectrum monitoring Long-term strategies for spectrum utilization Economic approaches to national SM





Harmonization of Short Range Devices

Coexistence studies on wireless power transmissions, PLT, Smart Grid/Home Networking

Spectrum Management and Monitoring evolutions (e.g. CRS)



Study Group 3 Radiowave propagation



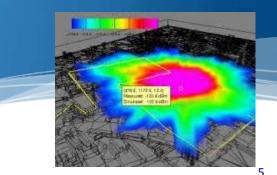


Point-to-point, point-to-area and Earth-space propagation scenarios

Modelling and development of prediction Radio noise

Characteristics and mapping of propagation medium

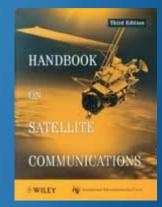
Propagation prediction methods



methods

Study Group 4 Satellite services









Systems and performance in FSS, BSS, MSS and RDSS

Efficient orbit/spectrum utilization for FSS, BSS, MSS and RDSS

IP Global broadband Internet access via satellite Early warning and relief operations

Technical characteristics for systems and networks in the RNSS

Satellite radio interface of IMT-Advanced

Technical and operational requirements for earth stations on mobile platforms



Study Group 5 Terrestrial services

IMT-2000 and IMT-Advanced Fixed, mobile, portable and nomadic communications, including BWA, RLANS, HAPS Maritime and aeronautical services Radiodetermination service Amateur service SDR and CRs

Next generation mobile access "IMT-Advanced"

Spectrum issues for maritime and aeronautical services









Study Group 6 Broadcasting service

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Programme production Programme assembly Delivery Reception quality





Sharing issues at UHF

Multimedia and data broadcasting for mobile reception



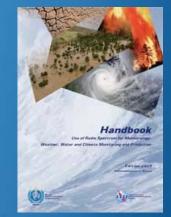




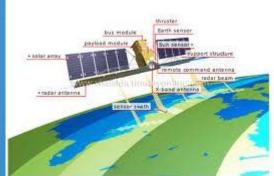
International Telecommunication Union

Study Group 7 Science services





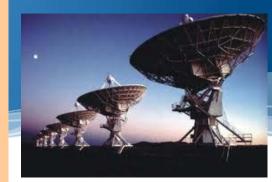
Systems for space operation, space research, Earth exploration and meteorology Radio astronomy Standard frequency and time signals



EESS including meteorological satellite service for disaster prediction and detection, and for climate monitoring

Protection of passive services, e.g. radioastronomy

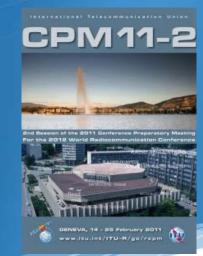
Studies regarding the use of the Leap Second



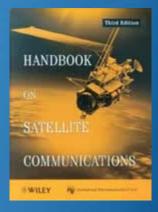
Study Group Products

- ITU-R Recommendations
- Reports and Handbooks
- Technical bases for radio

conferences











http://www.itu.int/ITU-R/go/study-groups

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Home : ITU-R : Study Groups							(Google" Custom Search			
adiocommunication Sector (ITU-R)	ITU Sectors	s Newsroom	Events	Publications	Statistics	About ITU					
Study Groups											
оре		Structure									
ore than 1 500 specialists, from telecommunication organizations ar Iministrations throughout the world, participate in the work of the S oups concerned with: drafting Technical bases for Radiocommunication Conferences developing Draft Recommendations compiling Handbooks		 Study Grou Study Grou Study Grou Study Grou Study Grou Study Grou 	p 3 (SG 3) p 4 (SG 4) p 5 (SG 5) p 6 (SG 6) p 7 (SG 7)	Spectrum man Radiowave pro Satellite servio Terrestrial ser Broadcasting s Science servio	opaqation ces rvices service ces						
		<u>Coordination Committee for Vocabulary (CCV)</u>									

General Information

Scope

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- Study Group Structure
- Brochure
- Chairmen and Vice-Chairmen
- Chairmen and Vice-Chairmen Meetings
- Contacts
- Mailing lists FTP server
- Remote participation
- ITU-R Electronic facilities
- ITU-R Meeting Schedule Meeting sessions
- Focal Points for Event Delegate Registration System (EDRS)

Joint Task Group 4-5-6-7 (JTG 4-5-6-7) - WRC-15 Agenda items 1.1 and 1.2

- Study Group 8 (SG 8) Mobile, radiodetermination, amateur and related satellite services
- Study Group 9 (SG 9) Fixed service

Conference Preparatory Meeting (CPM)

Special Committee (SC)

Disbanded Groups

Documents & Publications

- Administrative Circulars and Circulars Letters
- ITU-R Resolutions

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