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SUMMARY

The International Telecommunication Union Radiocommunication Sector (ITU-R) is the body responsible for developing international standards (ITU-R recommendations) for radio system.

The ITU-R is comprised of seven study group : the first two consider spectrum utilization and propagation issues and the latter study groups manage service-oriented issues.

To meet the demand for international standards, the ITU-R has divided its work program into study groups that develop recommendations.

Recently, ITU-R Study Group has managed the complex program is related with radio communication, satellite service and broadcast section of many country and is used to strengthen their radio sovereignty

Committee of ITU-R Research in Korea are used to establish for prepare korea document for consideration by the international committees.

Committee of ITU-R Research in Korea is comprised of seventh study group (industry, school and research institute experts) and researches including the standardization of IMT-2000, working on WRC (World radiocommunication Conference)-2000 agenda, RA (radiocommunication Assembly)-2000 and APG (Asia WRC preparing Group) etc. Also Committee of ITU-R Research in Korea is an active participant in both international and national committee as well as international problems to actively meet the topics of ITU-R

Committee of ITU-R Research in Korea have good results to take part in RA-2000

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3		-----	81

Study of ITU-R Activities

KIM, Yong-wan¹⁾ , WEE, Ku-jin²⁾, LEE, Kyoung-H³⁾

ABSTRACT

The International Telecommunication Union Radiocommunication Sector (ITU-R) is the body responsible for developing international standards (ITU-R recommendations) for radio system.

The ITU-R is comprised of eight study group: the first two consider spectrum utilization and propagation issues. and the latter study groups manage service-oriented issues

Recently, ITU-R Study Group has managed the complex program is related with radio communication, satellite service and broadcast section of many country and is used to strengthen thier radio sovereignty

Committee of ITU-R Rasearch in Korea are used to establish for prepare korea document for consideration by the international committees.

. INTRODUCTION

To meet the demand for international standards, the ITU-R has divided its work program into study groups that develop recommendations.

Committee of ITU-R Rasearch in Korea is comprised of seventh

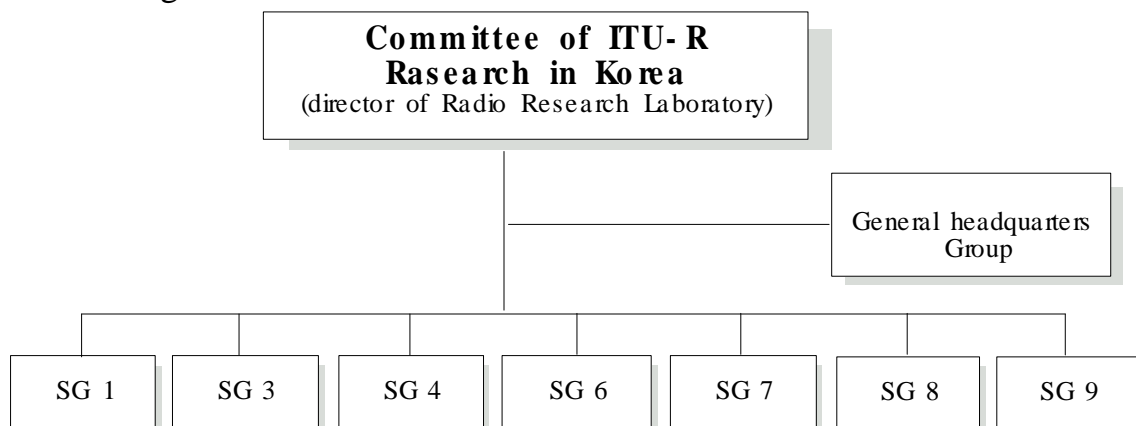
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Committee of ITU-R Research in Korea is an active participant in both international and national committee as well as international problems to actively meet the topics of ITU-R

. Organization of Committee of ITU-R Research in Korea

1. Organization



2. mission

Team	ITU- R SG	mission	ITU- R Ques	Member
SG1	SG1	Spectrum Management	33	18
SG3	SG3	Radiowave Propagation, Radio noise	24	14
SG4	SG4	Fixed-satellite, intersatellite telecommunication	74	16
SG6	SG6	Broadcasting- Sound, TV	108	11
SG7	SG7	Science, time signal	47	11
SG8	SG8	Mobile, Radiodetermination, Amateur	72	19
SG9	SG9	Fixed service	22	12
			380	101

. Studies item of Committee of ITU-R Research in Korea

1. Urgent studies item

Question No.	Title
26- 3/1	Bandwidth measurements at monitoring stations
201/1	Spectrum management aspects of short-range communication systems
206/1	Strategies for economic approaches to national spectrum management and their financing
207/1	Assessment for spectrum planning and strategic development of the benefits arising from the use of the radio spectrum
211/1	Unwanted emissions
213/1	Technical and operating parameters and spectrum requirements for short-range devices
217/1	Compatibility between short range devices operating within the band 59- 64GHz and industrial, scientific and medical (ISM) applications operating in the band 61- 61.5GHz
211/3	Propagation data and propagation models for the design of short-range wireless personal communication systems and wireless local area networks (WLANs) in the frequency range 300 MHz to 100 GHz
206- 3/4	Sharing between non-geostationary satellite feeder links in the fixed-satellite service used by the mobile-satellite service and other space services and networks of the fixed-satellite service using geostationary satellites
231/4	Sharing between networks of the fixed-satellite service using non-geostationary satellites and other networks of the fixed-satellite service
236/4	Interference criteria and calculation methods for the fixed-satellite service
237- 2/4	Sharing criteria for systems in the fixed-satellite service involving a large number of non-geostationary satellites with radio-relay systems in the 18.8 to 19.3 GHz and 28.6 to 29.1GHz bands
251- 1/4	Sharing criteria for systems in the fixed-satellite service using the same frequency bands with stratospheric high density systems in the fixed service
261/4	allowable Noise in fixed-satellite service systems due to interference
262/4	allowable error performance and availability degradations of fixed-satellite service systems due to Long and short-term effects
263/4	performance objectives of digital LINKS in the fixed-satellite service for transmission of ip packets

Question No.	Title
226/7	Frequency sharing between the radio astronomy service and other services in bands above 70 GHz
228/7	Preferred frequencies for the Earth exploration-satellite (passive) and space research (passive) services above 70GHz and the feasibility of sharing with other services in these bands
1-2/8	Signal-to-interference protection ratios and minimum field strengths required in the mobile services
5-5/8	The introduction of direct-printing telegraph equipment in the maritime mobile service
9-6/8	Digital selective-calling system for future operational requirements of the maritime mobile service
39-5/8	International Mobile Telecommunications 2000 (IMT-2000)
76-4/8	Data communication in the maritime mobile service
77-3/8	Adaptation of mobile radiocommunication technology to the needs of developing countries
93-2/8	Automation of MF, HF and VHF maritime mobile communications
96-1/8	Improved efficiency in the use of the band 156-174MHz by stations in the maritime mobile service
99/8	Interference due to intermodulation products in the land mobile services between 25 and 3 000 MHz
125-4/9	Point-to-multipoint radio systems
142-2/9	Radio local area networks (RLANs)
220/9	Fixed wireless access systems using ATM
211-2/11	Subjective assessments of the quality of television pictures including alphanumeric and graphic pictures
257/11	Relationship between quality, quality evaluation methodology and type of application in a multimedia environment

2. Important studies item

Question No.	Title
45-4/1	Techniques and technical criteria for frequency sharing
212/1	Development of method(s) for the determination of the coordination area around earth stations
201-1/3	Radiometeorological data required for the planning of terrestrial and space communication systems and space research application

Question No.	Title
203- 1/3	Propagation data and prediction methods for terrestrial broadcasting and terrestrial mobile services at frequencies above 30MHz
206- 2/3	Propagation data and prediction methods for fixed- and broadcasting- satellite services
207- 2/3	Propagation data and prediction methods for satellite mobile and radiodetermination services above about 0.1GHz
208- 1/3	Propagation factors in frequency sharing issues affecting fixed- satellite services and terrestrial services
210/3	Propagation prediction procedure for the land mobile and terrestrial broadcasting services in the frequency range 30MHz to 3 GHz
218- 2/3	Ionospheric influences on space systems
222/3	Measurements and data banks
226/3	Ionospheric and tropospheric characteristics along satellite- to- satellite paths
42- 1/4	Characteristics of antennas at earth stations in the fixed- satellite service
205- 1/4	Frequency sharing between non-geostationary satellite feeder links in the fixed satellite service used by the mobile- satellite service
223/4	Interference criteria for short-term interference events into the fixed- satellite service networks
250- 1/4	Feasibility of the fixed- satellite service sharing with the fixed service operating on the same frequencies in the range 30 - 52 GHz
256/4	Criteria and Methodologies for Sharing between the Fixed- Satellite Service and Other Services with Allocations in the Band 40.5-42.5 GHz
211/7	Frequency sharing between the space research service and other services in the 37 - 38 GHz and 40 - 40.5 GHz bands
215/7	Frequency sharing between Earth exploration- satellite systems (passive) space research systems (passive) and systems in the fixed mobile and fixed- satellite services in the band 18.6- 18.8GHz
35- 1/8	Efficient use of the radio spectrum by radar stations in the radiodetermination service
62- 2/8	Interference to the aeronautical mobile and aeronautical radionavigation services
83- 3/8	Efficient use of the radio spectrum and frequency sharing within the mobile- satellite service (MSS)
87- 3/8	Transmission characteristics for a mobile- satellite communication system
88- 1/8	Propagation and mobile earth station antenna characteristics for mobile- satellite services
90/8	Technical and operating characteristics of systems providing radiocommunication using satellite techniques for distress and safety operations
92- 1/8	Study on general questions relating to the Global Maritime Distress and Safety System (GMDSS)

Question No.	Title
104- 1/8	Technical and operational considerations for multiservice satellites operating in the frequency bands from about 20 to about 50 GHz
112/8	Performance objectives for digital mobile-satellite services
201/8	Frequency sharing between mobile-satellite services and other services
202- 1/8	Spurious emissions of radar systems
205- 1/8	Transport information and control systems (TICS)
210/8	Technical characteristics for mobile earth stations operating with global non-geostationary satellite systems in the mobile-satellite service (MSS) in the band 13GHz
212/8	Radio local area networks for mobile applications
215/8	Frequency bands technical characteristics and operational requirements for wireless access local loop systems
216/8	Compatibility of radionavigation and radiolocation services operating in the bands 2900-3100MHz and 5350-5650MHz
217/8	Interference to the radionavigation-satellite service in the ICAO global navigation satellite system
218/8	Essential technical requirements of mobile earth stations for global and regional geostationary mobile-satellite service systems in the band 1-3 GHz
220/8	Spurious emission limits for stations of the mobile-satellite service
221/8	Use of the frequencies between 2.8-22MHz by the aeronautical mobile(r) service for data transmissions using class of emission J2DEN
222/8	Essential technical requirements of mobile earth stations for global non-geostationary mobile-satellite service systems with primary allocations in bands below 1GHz
212- 1/9	Fixed service systems utilizing high altitude platform stations (HAPS)
218- 1/9	Frequency sharing criteria for systems in the fixed service using high-altitude platform stations and systems in the fixed-satellite service
256/11	Digital interactive television broadcasting systems

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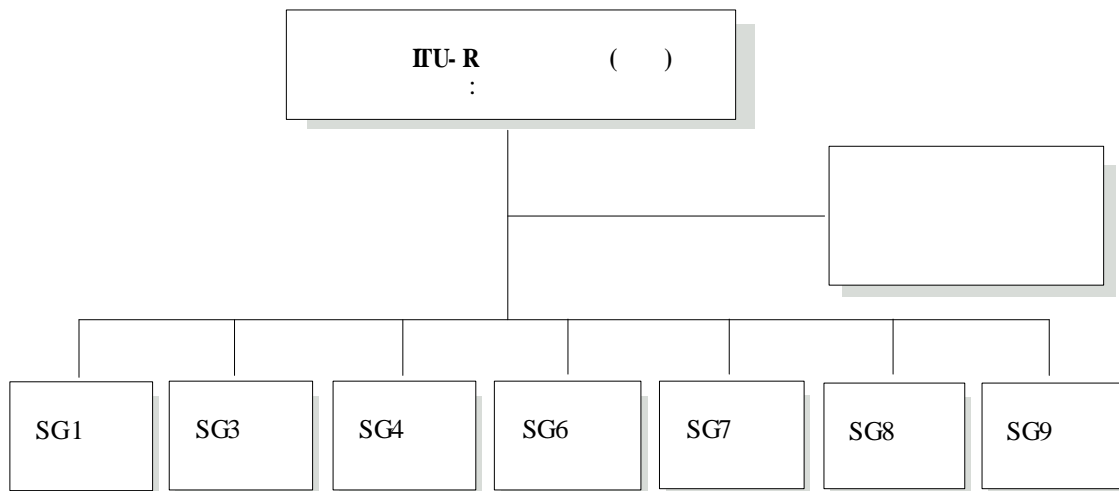
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SG3	SG3	,	24	14
SG4	SG4	,	74	16
SG6	SG6	,	108	11
SG7	SG7	, ,	47	11
SG8	SG8		72	19
SG9	SG9	TV	22	12
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			064)469- 4693	064)466- 2086	yhkang@ks.kunsan.ac.kr	
			02)3140- 1659	02)3140- 1549	kdj@kora.or.kr	
			02)940- 5197	02)916- 8014	jtkim@hisylkwangwon.ac.kr	
			031)290- 7133	031)290- 5819	cspark@mvlabskku.ac.kr	
			0431)261- 2368	0431)261- 2368	kcho@ht.chungbuk.ac.kr	
			02)3400- 2272	02)3400- 2289	joyjn@mic.go.kr	
	()LG		02)818- 9074	02)818- 9077	jbyoon@lgtel.co.kr	
			02)775- 0820	02)775- 0817	bkkoo@rapa.or.kr	
			02)3400- 2270	02)3400- 2222	hwangkc@mic.go.kr	
			042)860- 5993	042)861- 1866	skpark@pec.etri.re.kr	
	EIR		042)860- 5851	042)860- 6403	hykang@etri.re.kr	
	EIR		042)860- 5625	042)860- 6403	hsulee@etri.re.kr	
			031)280- 9953	031)280- 9969	parkw@hgwinfo.sungok.kr	
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	1		02)3400- 2271	02)3400- 2289	hsuyong@mic.go.kr	
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2. SG3 (, / SG 3) : 14

			031)458- 4188	031)455- 6784	shbae@cc.ri.go.kr	
			031)220- 2302	031)220- 2494	suhang@mailsuwon.ac.kr	
			02)2290- 0376	02)2293- 0377	tirachoi@chollan.com	
			0431)261- 2482	0431)274- 6206	nankim@bucc.dunghak.ac.kr	
	EIR		042)860- 5686	042)860- 6403	ykham@etri.re.kr	
	EIR		042)860- 5263	042)860- 6403	yschoi@etri.re.kr	
			031)400- 5171	031)406- 8198		
			031)201- 2924	031)202- 2924	bonsen@ms.kyunghee.ac.kr	
			02)940- 5080	02)941- 9176	ushong@hisylkwangwoon.ac.kr	
			02)940- 5080	02)941- 9176		
	() LG		02)818- 9024	02)818- 9077	msso@lgteleco.kr	
			02)361- 3565	02)361- 3565	hlpark@yonsei.ac.kr	
	KAIST		042)869- 3443	042)869- 34165		
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			02)750- 5371	02)725- 5575	msihye@bommailkt.co.kr	
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			042)860- 3953	042)860- 6949	kbs@etri.re.kr	
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			02)580- 5687	02)580- 5728	jtjeon@hei.co.kr	
	SK		02)2121- 2625	02)2121- 3935	kekj@sktelecom.com	
			02)781- 5136	02)781- 5199	ywlee@kbsnt.kbs.co.kr	
			02)781- 1021	02)781- 1099	psk@tri.kbs.co.kr	
			02)980- 3344	02)909- 0485	wphong@daisy.kwongwoon.ac.kr	
			02)710- 6471	02)710- 6449	wyyang@cc.ri.go.kr	WPAB
			02)710- 6472	02)710- 6449	jhpark@cc.ri.go.kr	WPkg
			02)710- 6473	02)710- 6449	hwkim@cc.ri.go.kr	WPJS

4. SG6 (TV / SG6) : 11

			02)710- 6590	02)710- 6559	knkim@cc.rtl.go.kr	
			042)860- 4861	042)860- 6403	hhjeon@etri.re.kr	
			042)629- 7571	042)629- 7843	aechul@eve.hanmac.kr	
			02)320- 1485	02)320- 1119	hkee@wow.hongik.ac.kr	
			02)781- 5136	02)781- 5199	ywlee@kbsrt.kbs.co.kr	
			02)- 789- 3685		lsw@mbc.co.kr	
			02)522- 8020	02)522- 8013	ksyoo@mailebs.co.kr	
			02)361- 2779	02)312- 4584	chulhee@yonsei.ac.kr	
			062)530- 1756	062)530- 1759	djinkim@chonnomac.kr	
			031)458- 4188	031)455- 6784	jhseok@cc.rtl.go.kr	SG10
			02)710- 6591	02)710- 6559	yther@cc.rtl.go.kr	SG11

5. SG7 (, / SG7) : 15

			031)458- 4188	031)455- 6784	ykkim@cc.rtl.go.kr	
	ETRI		042)860- 6563	042)861- 1866	heechang@pec.etri.re.kr	
			042)860- 2528	042)860- 2605	jongwoo@viva.kari.re.kr	
			042)865- 3287	042)865- 3272	hschung@hanulissa.re.kr	
	GNG		02)888- 0720		khpark@geo.giri.co.kr	
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			031)201- 2991			
			062)970- 2216			
			031)458- 4188	031)455- 6784	jhwak@cc.rtl.go.kr	
			031)458- 4188	031)455- 6784	dsppark@cc.rtl.go.kr	

6. SG8 (, , /SG8) : 19

			02)710- 6460	02)710- 6449	ljwee@cc.rri.go.kr	
			042)220- 5057	0341)61- 2482	nankim@bucc.chungbuk.ac.kr	
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			031)30- 4254	02)562- 5425	kimhd@ice.hufs.ac.kr	
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			051)410- 4315	051)403- 8704	196405@nhk.ac.kr	
			02)2260- 3333	02)2260- 3333	yoonb@akadongguk.ac.kr	
			031)222- 1765	031)222- 1765	sychang@mailsuwon.co.kr	
			02)361- 2876	02)361- 2876	yjyoon@bubble.yonsei.ac.kr	
	가		02)526- 6177	02)526- 5216	hryou@kt.co.kr	
	()LG		02)818- 9508	02)818- 9077		
	EIR		042)860- 5936	042)860- 5119	dskwon@amadeus.etri.re.kr	
			042)860- 1340	042)480- 3904	jt ihm@mail.ita.re.kr	
			02)723- 7071	02)736- 0384	bkleee@www.tta.or.kr	
			02)3140- 1690	02)3140- 1692	smk@koraa.or.kr	
			031)779- 8131	031)779- 8003	jysong@telecomsamsung.co.kr	
			02)710- 6463	02)710- 6449	jwlim@cc.rri.go.kr	WP8A
			02)710- 6464	02)710- 6449	ywkim@cc.rri.go.kr	WP8B
			02)710- 6461	02)710- 6449	khlee@cc.rri.go.kr	TG8F

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			031)455- 6782	031)455- 6784	@cc.rri.go.kr	
			02)3290- 3236	2)3290- 3691	ccglang@kucrn.korea.ac.kr	
			042)821- 6883	042)822- 4334	jkpck@nhk.chungnam.ac.kr	
			064)469- 1858	064)469- 1851	hwang@ks.kunsan.ac.kr	
			042)860- 1451	042)860- 1304	sopark@icu.ac.kr	
	SK		042)865- 0554	042)865- 0797		
			02)526- 6460	02)526- 6178		
			042)860- 5138	042)860- 5199	sungsookee@etri.re.kr	
			02)526- 6460	02)526- 6178	semo@etri.re.kr	
			02)580- 5383	02)580- 5437	youngbong@hei.co.kr	
	()LG		02)818- 9262	02)818- 9077	jego@ltel.co.kr	
			031)455- 6782	031)455- 6784	stoh@cc.rri.go.kr	

8. : 20

			02)710- 6440	02)710- 6449	kholee@cc.rri.go.kr	
		3	02)750- 2414	02)750- 2419		
			02)750- 2421	02)750- 2429		
			02)750- 2433	02)750- 2439	ypkim@MC.mic.go.kr	
			02)750- 2444	02)750- 2449	yshan@MC.mic.go.kr	
			02)750- 2351	02)750- 2395		
			02)710- 6570	02)710- 6559	chsryu@cc.rri.go.kr	SG1
			02)710- 6470	02)710- 6449	seong@cc.rri.go.kr	SG4
			02)710- 6590	02)710- 6559	knkim@cc.rri.go.kr	SG6
			02)710- 6443	02)710- 6669	shbae@cc.rri.go.kr	SG3
			031)458- 4188	031)455- 6784	ykkim@cc.rri.go.kr	SG7
			031)455- 6782	031)455- 6784	choisb@cc.rri.go.kr	SG9
			02)710- 6460	02)710- 6449	ljwee@cc.rri.go.kr	SG8,
			042)860- 6563	042)861- 1866	heechang@pec.etri.re.kr	
			042)860- 5625	042)860- 6403	hsulee@etri.re.kr	
			042)860- 6412	042)860- 6430	sekpark@etri.re.kr	
			02)723- 7073	02)736- 0384	ngjang@www.tta.or.kr	
			02)750- 2416	02)750- 2419	sskang@MC.mic.go.kr	
			02)3140- 1651	02)3140- 1549	shins@koraa.or.kr	
			02)710- 6464	02)710- 6449	ywkim@cc.rri.go.kr	

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LAN

1. 1

		Question No.
SG1	<ul style="list-style-type: none"> o Bandwidth measurements at monitoring stations o Spectrum management aspects of short-range communication systems o Strategies for economic approaches to national spectrum management and their financing o Assessment for spectrum planning and strategic development of the benefits arising from the use of the radio spectrum o Unwanted emissions o Technical and operating parameters and spectrum requirements for short-range devices o Compatibility between short range devices operating within the band 59-64GHz and industrial, scientific and medical (ISM) applications operating in the band 61-61.5GHz 	26-3/1 201/1 206/1 207/1 211/1 213/1 217/1
SG3	<ul style="list-style-type: none"> o Propagation data and propagation models for the design of short-range wireless personal communication systems and wireless local area networks (WLANs) in the frequency range 300 MHz to 100 GHz 	211/3

		Question No.
SG4	o Sharing between non-geostationary satellite feeder links in the fixed-satellite service used by the mobile-satellite service and other space services and networks of the fixed-satellite service using geostationary satellites	206- 3/4
	o Sharing between networks of the fixed-satellite service using non-geostationary satellites and other networks of the fixed-satellite service	23 1/4
	o Interference criteria and calculation methods for the fixed-satellite service	236/4
	o Sharing criteria for systems in the fixed-satellite service involving a large number of non-geostationary satellites with radio-relay systems in the 18.8 to 19.3 GHz and 28.6 to 29.1GHz bands	237- 2/4
	o Sharing criteria for systems in the fixed-satellite service using the same frequency bands with stratospheric high density systems in the fixed service	251- 1/4
	o Allowable Noise in fixed-satellite service systems due to interference	261/4
	o Allowable error performance and availability degradations of fixed-satellite service systems due to Long and short-term effects	262/4
	o Performance objectives of digital LINKS in the fixed-satellite service for transmission of ip packets	263/4
SG6	o Subjective assessments of the quality of television pictures including alphanumeric and graphic pictures	211- 2/11
	o Relationship between quality, quality evaluation methodology and type of application in a multimedia environment	257/11
SG7	o Frequency sharing between the radio astronomy service and other services in bands above 70 GHz	226/7
	o Preferred frequencies for the Earth exploration-satellite (passive) and space research (passive) services above 70GHz and the feasibility of sharing with other services in these bands	228/7
SG8	o Signal-to-interference protection ratios and minimum field strengths required in the mobile services	1- 2/8
	o The introduction of direct-printing telegraph equipment in the maritime mobile service	5- 5/8
	o Digital selective-calling system for future operational requirements of the maritime mobile service	9- 6/8
	o International Mobile Telecommunications 2000 (IMT-2000)	39- 5/8
	o Data communication in the maritime mobile service	76- 4/8
	o Adaptation of mobile radiocommunication technology to the needs of developing countries	77- 3/8
	o Automation of MF, HF and VHF maritime mobile communications	93- 2/8
	o Improved efficiency in the use of the band 156- 174MHz by stations in the maritime mobile service	96- 1/8
SG9	o Interference due to intermodulation products in the land mobile services between 25 and 3 000 MHz	99/8
	o Point-to-multipoint radio systems	125- 4/9
	o Radio local area networks (RLANs)	142- 2/9
	o Fixed wireless access systems using ATM	220/9

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		Question No.
SG1	<ul style="list-style-type: none"> o Techniques and technical criteria for frequency sharing o Development of method(s) for the determination of the coordination area around earth stations 	45-4/1 212/1
SG3	<ul style="list-style-type: none"> o Radiometeorological data required for the planning of terrestrial and space communication systems and space research application o Propagation data and prediction methods for terrestrial broadcasting and terrestrial mobile services at frequencies above 30MHz o Propagation data and prediction methods for fixed- and broadcasting-satellite services o Propagation data and prediction methods for satellite mobile and radiodetermination services above about 0.1GHz o Propagation factors in frequency sharing issues affecting fixed-satellite services and terrestrial services o Propagation prediction procedure for the land mobile and terrestrial broadcasting services in the frequency range 30MHz to 3 GHz o Ionospheric influences on space systems o Measurements and data banks o Ionospheric and tropospheric characteristics along satellite-to-satellite paths 	201- 1/3 203- 1/3 206- 2/3 207- 2/3 208- 1/3 210/3 218- 2/3 222/3 226/3
SG4	<ul style="list-style-type: none"> o Characteristics of antennas at earth stations in the fixed-satellite service o Frequency sharing between non-geostationary satellite feeder links in the fixed-satellite service used by the mobile-satellite service o Interference criteria for short-term interference events into the fixed-satellite service networks o Feasibility of the fixed-satellite service sharing with the fixed service operating on the same frequencies in the range 30 - 52 GHz o Criteria and Methodologies for Sharing between the Fixed-Satellite Service and Other Services with Allocations in the Band 40.5-42.5 GHz 	42- 1/4 205- 1/4 223/4 250- 1/4 256/4
SG6	<ul style="list-style-type: none"> o Digital interactive television broadcasting systems 	256/11
SG7	<ul style="list-style-type: none"> o Frequency sharing between the space research service and other services in the 37-38GHz and 40-40.5 GHz bands o Frequency sharing between Earth exploration-satellite systems (passive) space research systems (passive) and systems in the fixed mobile and fixed-satellite services in the band 18.6- 18.8GHz 	211/7 215/7

		Question No.
SG8	o Efficient use of the radio spectrum by radar stations in the radiodetermination service	35- 1/8
	o Interference to the aeronautical mobile and aeronautical radionavigation services	62- 2/8
	o Efficient use of the radio spectrum and frequency sharing within the mobile-satellite service (MSS)	83- 3/8
	o Transmission characteristics for a mobile-satellite communication system	87- 3/8
	o Propagation and mobile earth station antenna characteristics for mobile-satellite services	88- 1/8
	o Technical and operating characteristics of systems providing radiocommunication using satellite techniques for distress and safety operations	90/8
	o Study on general questions relating to the Global Maritime Distress and Safety System (GMDSS)	92- 1/8
	o Technical and operational considerations for multiservice satellites operating in the frequency bands from about 20 to about 50 GHz	104- 1/8
	o Performance objectives for digital mobile-satellite services	112/8
	o Frequency sharing between mobile-satellite services and other services	201/8
	o Spurious emissions of radar systems	202- 1/8
	o Transport information and control systems (TICS)	205- 1/8
	o Technical characteristics for mobile earth stations operating with global non-geostationary satellite systems in the mobile-satellite service (MSS) in the band 13GHz	210/8
	o Radio local area networks for mobile applications	212/8
	o Frequency bands technical characteristics and operational requirements for wireless access local loop systems	215/8
	o Compatibility of radionavigation and radiolocation services operating in the bands 2900-3100MHz and 5350-5650MHz	216/8
	o Interference to the radionavigation-satellite service in the ICAO global navigation satellite system	217/8
	o Essential technical requirements of mobile earth stations for global and regional geostationary mobile-satellite service systems in the band 1-3GHz	218/8
	o Spurious emission limits for stations of the mobile-satellite service	220/8
	o Use of the frequencies between 2.8-22MHz by the aeronautical mobile(r) service for data transmissions using class of emission J2DEN	221/8
	o Essential technical requirements of mobile earth stations for global non-geostationary mobile-satellite service systems with primary allocations in bands below 1GHz	222/8
SG9	o Fixed service systems utilizing high altitude platform stations (HAPS)	212- 1/9
	o Frequency sharing criteria for systems in the fixed service using high-altitude platform stations and systems in the fixed-satellite service	218- 1/9

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INTERNATIONAL TELECOMMUNICATION UNION
**RADIOCOMMUNICATION
ASSEMBLY**

ISTANBUL, 1-5 MAY 2000

Document
RA2000/PLEN/12-E
7 April 2000
Original: English

Republic of Korea

Publication of Handbooks

Background

According to Resolution ITU-R 12, Radiocommunication handbooks constitute an authoritative source of technical material relating to radiocommunications that may be of direct benefit to developing countries. There is also a need to disseminate information contained within handbooks as widely as possible throughout the ITU membership in a form which is readily understandable and that can be applied practically, especially in the training of technicians and engineers for use in developing countries.

ITU-R 1-2 specifies the publication of the handbooks in bound form. However, these days many developing countries have tools to access the ITU database and web-site by outside terminals. Therefore, the Republic of Korea proposes to publish the handbooks in both electronic and bound formats in order to give more fast and easier access to the handbooks for the direct benefit to many developing countries as well as developed countries.

Proposal

PART II

Documentation

6. Radiocommunication Assembly and Radiocommunication Study Group texts

6.4 Publications

MOD 6.4.4 Handbooks should in general be published in bound form and updated and/or complemented by the issue of supplement. If necessary, they can include software or data in computer readable form for programs described in the text. Handbooks would normally be published in both printed and electronic formats.

MOD 6.4.5 Publication of the texts of the Radiocommunication Assembly should involve the use of both printed and electronic formats. The texts of approved Questions, Recommendations, Resolutions, Opinions and Decisions should be included in the ITU databases and be available for access by outside terminals.

Handbook Reports and specialized graphical texts would normally be published in printed format.



INTERNATIONAL TELECOMMUNICATION UNION
**RADIOCOMMUNICATION
ASSEMBLY**

ISTANBUL, 1-5 MAY 2000

Document
RA2000/PLEN/13-E
7 April 2000
Original: English

Republic of Korea

Appointment of Study Group Chairpersons and Vice-Chairpersons

Background

Resolution ITU-R 15-2 is about the appointment of chairpersons and vice-chairpersons for ITU-R Study Groups. However, there is no detailed procedure for the appointment of chairpersons and vice-chairpersons of the ITU-R study groups and qualifications of the chairpersons and vice-chairpersons. The 8th RAG meeting in January 2000 endorsed the general principles proposed in Doc. RAG2000- 1/16(BR) and recommended the Resolution ITU-R 15-2 to be amended. Further consideration should be given to the application of the proposed arrangements to serving officers.

Proposal

The Republic of Korea proposes to revise the Resolution ITU-R 15-2, appointment and maximum term of office for chairpersons and vice-chairpersons of Radiocommunication Study Groups, based on the draft summary of conclusions of the 8th meeting of RAG (Annex 4 of Doc. RAG2000- 1/31(Rev.1)). The brief summary of Korean proposal is as follows;

- 1) addition of annex 1 on the procedure for the appointment of chairpersons and vice-chairpersons of the ITU-R Study Groups

- 2) addition of annex 2 on the qualifications of the chairpersons and vice-chairpersons
- 3) based on the PP-98 Resolution (Inclusion of gender perspective in the work of ITU), editorial changes are made to use the gender neutral terminology wherever the wordings do not follow the Resolution, e.g. chairman chairperson, chairmen chairpersons.

MOD Draft revision of Resolution ITU-R 15-2

**APPOINTMENT AND MAXIMUM TERM OF OFFICE FOR
CHAIRPERSONS AND VICE-CHAIRPERSONS OF
RADIOCOMMUNICATION STUDY GROUPS**

(1993- 1995- 1997)

The ITU Radiocommunication Assembly,

considering

- a) that No. 133 and No. 148 of the ITU Convention (Geneva, 1992) provide for the establishment of Radiocommunication Study Groups;
- b) that No. 149 of the Convention (Geneva, 1992) and other related provisions indicate the nature of the work of the Study Groups;
- c) that No. 242 of the Convention (Geneva, 1992) requires the Radiocommunication Assembly to appoint Chairpersons and Vice-Chairpersons of Study Groups, taking account of competence and equitable geographical distribution;
- d) that a specific time limit on the term of office would permit the introduction of new ideas on a periodic basis, while at the same time give an opportunity for Study Group Chairpersons and Vice-Chairpersons to be appointed from different Member countries;
- e) that *the Additional Plenipotentiary Conference provided No. 13 of the Convention (Geneva, 1992) provides* for re-election once only (i.e. a

maximum of 8 years in normal circumstances) for the posts of the Secretary-General, Deputy Secretary-General and the Directors of the Bureaux;

f) that Resolution 77 (Minneapolis, 1998) set a timing for the next Radiocommunication Assembly which departs from the two-yearly frequency of previous Assemblies;

g) that the setting of a maximum time in office for the Study Group Chairmenpersons and Vice-Chairmenpersons conforms to the directions given to the Radiocommunication Assembly in No. 242 of the Convention (Geneva, 1992),

taking into account

h) g) that a maximum time in office of approximately eight years for Study Group Chairmenpersons and Vice-Chairmenpersons provides for a reasonable amount of stability while providing the opportunity for different individuals to serve in these capacities,

resolves

1 that candidates for the posts of Study Group Chairmenpersons and Vice-Chairmenpersons of the ITU-R Study Groups should be identified, by Member States of the ITU, Radiocommunication Sector Members and, if possible, by the concerned Study Group, as soon as feasible once the structure of the Study Groups is clear; the procedures to be followed should be as given in Annex 1. The qualifications required for such posts are given in Annex 2.

2 that candidates for the posts of Study Group Chairmenpersons and Vice-Chairmenpersons should be identified, taking into account that for each Study Group there may be one Vice-Chairman and, if the workload of any Study Group requires, the Assembly will may appoint the Chairmenpersons and those additional Vice-Chairmenpersons as it deemed necessary, normally not more than two in total ;

3 that nominations for the posts of Study Group Chairmenpersons and Vice-Chairmenpersons should be accompanied by a biographical

profile highlighting the qualifications of the individuals proposed. The Director will circulate the profiles to the Heads of Delegation present at the Assembly;

4 that the *maximun* term of office for both Chairmenpersons and Vice-Chairmenpersons should be limited *to an eight year period; the term of office, determined in this way, shall be deemed to commence in 1993 for existing Chairmen and 1995 for existing Vice-Chairmen so as to terminate at the end of the Radiocommunication Assembly at which the officer will have served for a period of more than seven years;*

5 that the period in office in one appointment (e.g. as a Vice-Chairmenpersons) does not count towards the period in office for another appointment (e.g. as a Chairmenpersons) and that steps should be taken to provide some continuity between Chairmenpersons and Vice-Chairmenpersons,

instructs the Director

1 *to develop a procedure for the selection of Study Group Chairmen and Vice-Chairmen, with the advice of the Radiocommunication Advisory Group (RAG), well in advance of the next Radiocommunication Assembly and submit it for consideration by the next Radiocommunication Assembly.*

Annex 1

Procedure for the appointment of chairpersons and vice-chairpersons of the ITU-R study groups

1 Vacant positions of chairpersons and vice-chairpersons are known in advance by the study group and the Director. Since this resolution indicates the maximum terms of office for chairpersons and

vice-chairpersons, this should be the most frequent case.

- a) In order to help the Radiocommunication Assembly appoint new chairpersons/vice-chairpersons, ITU-R members and the concerned study groups should be invited to indicate to the Director, BR suitable candidates at least [three] months before the opening of the Radiocommunication Assembly.
- b) On the basis of received proposals, the Director will circulate to members the list of candidates. The list of candidates should be accompanied by an indication of the qualifications of each candidate as included in Annex 2.
- c) On the basis of this document and any relevant received comments the Heads of Delegation, at a suitable time during the Assembly, should be invited to prepare, in consultation with the Director, a consolidated list of designated study group chairpersons and vice-chairpersons to be submitted in a document to the Radiocommunication Assembly for final approval.

2 Vacant positions of chairpersons and vice-chairpersons occur in mid-term between Radiocommunication Assemblies.

In the case where a vice-chairperson is unable to continue his/her duties, the replacement will be deferred to the next Radiocommunication Assembly, following the procedure outlined in 1 (see also No. 244 of the Convention).

In the case where a study group chairperson is unable to carry out his/her duties, and pending appointment by the next Radiocommunication Assembly according to the procedure outlined in 1, the functions will be undertaken by the longest serving vice-chairperson, or by another vice-chairperson as agreed in consultation between the concerned vice-chairpersons and the Director, who will act as chairperson until the next Radiocommunication Assembly (see also No. 244 of the Convention).

3 Vacant positions of chairpersons and vice-chairpersons are known only at, or within [three] months just before, the Radiocommunication

Assembly.

This situation, which should in principle not occur frequently, should be dealt with by the Radiocommunication Assembly either following the procedure outlined in 2 or the procedure outlined in 4

4 The situations which cannot be considered with the above 3 situations will be dealt with on a case-by-case basis at Radiocommunication Assembly.

For example, if a merger of two existing study groups is envisaged, some proposals can be forthcoming from the relevant study groups. Therefore the procedure outlined in 1 can still be applied.

However, if the Radiocommunication Assembly decides to set up a completely new study group, discussions will have to be held at the Radiocommunication Assembly and conclusions reached.

Annex 2

Qualifications of the chairpersons and vice-chairpersons

No. 242 of the Convention (as modified by PP-98) states that:

"• In appointing chairmen and vice-chairmen, particular consideration shall be given to the requirements of competence and equitable geographical distribution, and to the need to promote more efficient participation by the developing countries."

As regards competence, the following qualifications appear to be of paramount importance when appointing study group officials:

- knowledge and experience;
- continuity in participation in the relevant study group;
- managerial skills;
- availability.

Particular reference to the above qualifications should be included in the biographical profile to be circulated by the Director.



INTERNATIONAL TELECOMMUNICATION UNION
**RADIOCOMMUNICATION
ASSEMBLY**

ISTANBUL, 1-5 MAY 2000

Document
RA2000/PLEN/14-E
7 April 2000
Original: English

Republic of Korea

The Merger of Study Group 10 and Study Group 11

1. Introduction

The Joint Steering Committee (JSC) of Study Groups 10 and 11 established an AHG/S (Ad-hoc Group on Structure) to evaluate the suitability of a new organization for both Study Groups in March 1998. Study Groups 10 and 11 considered the report of the AHG/S and submitted to RA the final report (Doc. RA2000/PLEN/2) on the merger of two Study Groups after Extraordinary meeting of Study Groups 10 and 11 in December 1999.

The RAG in January 2000 fully endorsed the proposal to merge Study Groups 10 and 11 and noted to deal with the overlap of activities between ITU-R and ITU-T on broadcasting-related issues ((Doc. RAG2000- 1/31).

2. Korean view

2.1. Merger of Study Groups 10 and 11

With the development of digital technology, sound, video, and data are no longer separable in the present environment and it is increasing the

importance of joint works with Study Groups 10 and 11. The Republic of Korea supports the merger of two Study Groups to implement the efficiency in the work and the reestablishment of the scope of a new merged Study Group to introduce the new broadcasting services.

The final structure of the merged Study Group is required well defined Working Parties subject to precisely defined mandate in order to deal with questions in a single Study Group. After carefully evaluating both of two possible final structures proposed in the final report from the extraordinary meeting of SGs 10 and 11, the Republic of Korea supports the final structure of the new Study Group based on Example 2.

2.2. Scope of the work of the merged Study Group

It has to be taken into account the impact of changing technology on broadcasting since the demand of data and interactive broadcasting, now available in some countries, is increasing by consumers.

Considering the end-to-end character of broadcasting, the Republic of Korea endorses the scope proposed by SGs 10 and 11 as follows (Doc. RA2000/PLEN/2):

The scope of the study group encompasses broadcasting (terrestrial and satellite), including vision, sound, multimedia and data services principally intended for delivery to the general public. Broadcasting makes use of point-to-everywhere information delivery to widely available consumer receivers. When return channel capacity is required (e.g. for access control, interactivity, etc.), broadcasting typically uses an asymmetrical distribution infrastructure that allows high capacity information delivery to the public with lower capacity return link to the service provider. The production and distribution of programs (vision, sound, multimedia, data, etc.) may employ contribution circuits among studios, information gathering circuits (ENG, SNG, etc.) primary

distribution to delivery nodes, and secondary distribution to consumers.

The Study Group, considering broadcasting from end-to-end, studies those aspects of broadcasting described above, including international exchange of programs as well as the performance of the overall delivery chain to the general public.

2.3. Close liaison with relevant ITU-T Study Groups

With the new scope of the merged Study Group it might arise overlap works of SGs between ITU-R and ITU-T. The work unique to ITU-R covers broadcasting as shown in principle 5 of Annex1 of Resolution ITU-R 6. However it is particularly noted that the relevant SGs of ITU-R have adopted the technologies developed by SGs of ITU-T to establish Recommendations.

Therefore it is strongly encouraged the new SG should keep the close liaison with ITU-T SGs which have cooperated with ITU-R Study Groups 10 and 11.



INTERNATIONAL TELECOMMUNICATION UNION
**RADIOCOMMUNICATION
ASSEMBLY**

ISTANBUL, 1-5 MAY 2000

Document
RA2000/PLEN/15-E

7 April 2000

Original: English

Republic of Korea

**Speed up process for web posting of the chairpersons report after
ITU - R meetings**

Proposal

Even ITU-R encourages the Member States to attend ITU-R meetings concern, it is not actually easy for every Member State to attend the meetings because of its budget problems or any other reasons. In addition, for its convenient and prompt services, more Member States have been obtaining the information for the activities of the ITU-R meetings from the ITU-R web site.

According to 10.3.5.2 of Res. ITU-R 1-2, for the application of the approval procedure by consultation, within one month of Study Group's adoption of a draft new or revised Recommendation, the Member States indicate within three months whether they approve or not.

Therefore, it is required to accelerate web posting for the information of the ITU-R meetings to promote the activities in the ITU-R.

Nevertheless, the posting of the draft chairperson's report which summaries the results of the new or revised Recommendation in the Study Group, is sometimes delayed. Therefore, to inform the result of the consultation to the Member States not attended the Study Group meeting concerned, to provide some time to review the new or revised Recommendation to the Member States, and to derive a substantial response from more Member States, the Republic of Korea proposes that the draft chairperson's report of the ITU-R meetings should be posted on the appropriate ITU-R web page in [2] weeks after the meeting, and the update version of it should be posted on the web in [2] months.

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INTERNATIONAL TELECOMMUNICATION UNION



ASSOCIATE MEMBERSHIP APPLICATION FORM

National entities and organizations are invited to send this form through the national telecommunication administration of the Member State to which they are responsible or directly if the Member State has assigned authority to the Secretary-General to approve the application. Regional and international organizations may send it direct to the ITU Secretary-General.

The following company / organization / entity:

Name:

Contact person (for future correspondence):

Title:

Mailing address:

Tel:
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wishes to become an Associate* of the following ITU-R Study Group (tick ONE box only):

- | | |
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| 1 (Spectrum Management) | 7 (Science services) |
| 3 (Radiowave propagation) | 8 (Mobile services) |
| 4 (Fixed satellite service) | 9 (Fixed Services) |
| 6 (Broadcasting services) | |

in the category of: (Please tick the appropriate box)

- ☐ recognized operating agency
- ☐ scientific or industrial organization
- ☐ financial or development institution
- ☐ other entity dealing with telecommunication matters
- ☐ regional and other international telecommunication, standardization, financial or development organization

I the undersigned, have the power and authority to submit this application on behalf of my company / organization / entity:

Name:

Title:

Date:

Signature:

Please make sure that you have given all the information requested.

*The annual financial contribution for an Associate participating in ITU-R for the biennium 2000-2001 is 10.500 Swiss Francs.

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Addendum 1 to Circular letter8/LCCE/75		Adoption of 3 draft new and 1 draft revised recommendations by study group 8 in accordance with 10.2.2 of resolution ITU-R 1-2(Adoption by a study group by correspondence)	2000. 3. 9

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Document 11/197(rev.1)- E	SG11	test materials to be used in subjective assessment(Question ITU- R 211/11)	2000. 2. 9
Document 11/193(rev.1)- E	SG11	Error- correction,data framing,modulation and emission methods for digital terrestrial television broadcasting(Question ITU- R 121/11)	2000. 2.21
Document 11/192(rev.1)- E	SG11	Interaction channel using global system for mobile communications(GSM)1(Question ITU- R 256/11)	2000. 2. 9
Document 11/188(rev.1)- E	SG11	Interaction channel using digital enhanced cordless telecommunications system (DECT)1(Question ITU- R 256/11)	2000. 2. 9
Document CPMØ9- 2/6- E	DRB	General review of resolutions and recommendations of WARC/WRC	'99. 9. 21
Administrative Circular CACE/166		Adoption of 10 new and 6 revised ITU- R Questions and their assignment to radiocommunication study group 4	'99. 12. 8
Document 8/56- E	WP8D	Technical and operational characteristics and protection criteria of radiodetermination and meteorological radars in the 2900- 3100MHz band(Questions ITU- R [Doc.8/57]andITU- R 216/8)	'99. 2.25
Document CPMØ9- 2/7- E	APBU	Proposed amendments to draft cpm report:chapter 1	'99. 9.23
Document CPMØ9- 2/8- E	APBU	Proposed amendments to draft cpm report:chapter 2	'99. 9.23
Circular CA/64		Conference preparatory meeting(CPM) for the purpose of preparing the CPM report to the 2000 world radiocommunication conference (WRC- 2000) and to address preparatory studies for the next conference after WRC- 2000	'99.10. 6
Document 10/88- E		Reorganization of ITU- R study groups 10 and 11	'99. 8.24
Document 10/89- E	TG10/6	Service requirements for digital sound broadcasting to vehicular,portable and fixed receivers using terrestrial transmitters in the LF, MF and HF bands(Question ITU- R 217- 1/10)	'99. 9.20
Document CPMØ9- 2/5- E	DRB	Report on the issues referred to in resolution29(WRC- 97)	'99. 9.20
Document 8/57- E	WP8B	Characteristics of and protection criteria for radars operating in the radiodetermination service	'99. 2.25
Document 1- 5/228- E	IUCAF	The commission on the allocation of frequencies for radio astronomy and space sciences	'99.11.11
Document 10- 11S/252- E	TG1/6	System parameters for the determination of the coordination area around a bss receive earth station in the bands 17.3- 17.8GHz and 21.4- 4- 22GHz	'99.11.18
Document 11/BL/22- E	SG11	Transmission systems for interactive cable television service(Question ITU- R 256/11)	'99.10.20
Document 11/BL/23- E	SG11	User requirements for coding for multi-programme transmission(Question ITU- R 250/11)	'99.10. 20
Document 11/BL/24- E	SG11	Subjective assessment of stereoscopic television pictures(Question ITU- R 234/11)	'99.10. 19

	SG		
Document 1C/53- E	TG 1/5	OOB emission measurements below 30 MHz	2000.1.26
Document 1C/52- E	thomson- C SF	Measurement of occupied bandwidth according to the definition of the radio regulations	'99.10. 4
Document 9C/42- E	CWP9C	Report of the meeting of working party 9C(Geneva, 8- 10 November 1999)	'2000.1. 6
Revision lto Document 8/ 128- E	RSG8	Essential technical requirements of mobile earth stations of geostationary mobile-satellite systems that are implementing the gmpcs- mou arrangements in parts(Question ITU- R 2 18/8)	'99.11.22
Revision lto Document 8/ 116- E	RSG8	Performance and quality of service requirements for international mobile telecommunications- 2000 (IMT- 2000) (Question ITU- R 39/8)	'99.11.19
Circular Letter CR/ 129		To administrations of member states of the ITU	'99.11. 3
Document 4A/429- E	TG 1/5	Boundary between spurious and out-of- band emissions	'99.10. 4
Document 4A/430- E	TG 1/5	On out-of- band regions of multi- carrier systems	'99.10.13
Document 8A/ 134- E	JWP 10- 11 S	Liaison statement to working party 9D, working party 8A and jrg 9D- 10- 11S/2 regarding the pfd limits in sections 5B) and 5C)of annex 1 to appendix S30	'99.11. 3
Document 8A/ 135- E	SG2	Liaison statement to ITU- R on working party 8A	'99.12. 3
Document b 1C/53- E	TG 1/5	OOB emission measurements below 30 MHz	2000. 1.26
Circular Letter8/LCCE/74		Establishment of working party 8f radiocommunication study group 8 on IMT-2000 and systems beyond IMT- 2000 and announcement of its first meeting	'99.12. 3
Document 4A/428- E	TG 1/5	Proposal for interference calculations between radioastronomy telescopes and ngso satellite systems	'99.10. 1
Document 9D/ 152- E	CWP9D	Report of the meeting of working party 9D(Geneva, 12- 20 April 1999)	'99. 9.27
Administrative circular CAR/85		Proposed approval of 7 draft new and 2 draft revised Questions adopted by radiocommunication study group 8 at its meeting of 10 to 12 November 1999	'99.11.30
CACE/ 163		Meeting of radiocommunication study group 11(Broadcasting service television)	'99.12. 6
Circular Letter8/LCCE/76		Meeting of working party 8A: Land mobile service excluding IMT- 2000; amateur and amateur- satellite service	'99.12. 8
Document 4A/3 18- E	WP9B	Draft cpm element for the cpm-99 report on the resolutions 126(wrc- 97),726(wrc- 97)and 133(wrc- 97)	'99. 4.2 1
Document 9D- 10 11S/25- E	JWP 10- 11S	Continuation of jrg 9D/ 10- 11S work as planned	'99.11. 1
Document 10- 11S/23 1- E	USA	Proposed modifications to limits to protect terrestrial services in region 1 east of longitude 30- degrees east from broadcasting satellite services in region 2 (Question ITU- R 223/11)	'99.10.12

	SG		
Document 9D/153-E	GTE	Liaison statement to wp 9D and jwp 10-11S on the limits contained in section 5 of annex 1 of appendix S30	'99.10.11
Administrative Circular CA/73		Final report of the group of technical experts (GTE) ; resolution 532 (WRC-97)	'99.12.20
Document 9D/147-E	JWP 10-11S	Reply to liaison statement from working party 9D regarding the pfd limits in section 5c of annex 1 to appendix s30, and terms of reference for a joint rapporteur group	'99. 6. 8
Document 9D/148-E	JWP 10-11S	Possible sharing between airborne BSS(TV) and certain applications of fixed services at 2500MHz (Question 220/11)	'99. 6. 9
Document 9D/149-E	JWP 10-11S	Sharing between BSS(sound) and fixed services	'99. 6. 9
Document 9D/150-E	WP 10-11S	Coordination between transmitting terrestrial stations and broadcasting satellite service earth stations in non-planned BSS bands	'99. 6. 9
Document 9D/151-E	SG7	Sharing between spaceborne passive sensors and the fixed service operating near 118 GHz and 183 GHz	'99. 6.28
Document 11/153-E	JWP 10-11S	Proposed modification of draft new recommendation ITU-R BO.11/136(REV.1): functional description to be used in developing software tools for determining conformity of non-gso fss networks with limits contained in article s22 of the radio regulations	'99.10.28
Administrative Circular CA/71		Questionnaire on national radio frequency spectrum management to seek information needed for responding to resolution 9 of the world telecommunication development conference (WTDC-98, valleta)	'99.11. 8
Document 10/90-E		Summary record of the joint meeting of SG 10 and 11	'99.10.12
Document 10/93-E	C,JWP 10-11S	Co-operation of study groups 10 and 11 with the IEC and the ISO	'99.10.21
Document 10/91-E		Resolution 974-conatel-99	'99.10.13
Document 8/95-E	WP 8A	E.I.R.P. density limit and operational restrictions for rans or other wireless access transmitters in order to ensure the protection of feeder links of non-geostationary systems in the MSS in the frequency band 5150-5250 MHz (Questions ITU-R 212/8, ITU-R 142/9 and ITU-R 284/4)	'99. 8.17
Document 8/96-E	RB	Results of the 8th meeting of the global radiocommunication standardization group (RAST)	'99. 9. 7
Document 8/98-E	SG 8	How to apply GMDSS principles for a global distress system in desert areas, sparsely populated or uninhabited	'99. 9.24

	SG		
Circular letter CR/146		Publication of the reference situation of the appendices S30 (WRC-2000) and S30A(WRC-2000) plans and of the lists for regions 1 and 3. Resolves 1 of resolution 533 (Rev. WRC-2000)	2000. 7.26
Administrative Circular CACE/182		Announcement of the establishment of task group 3/2 on the development of a path-general point-to-area propagation prediction method and of its first meeting	2000. 7.26
Administrative Circular CACE/184		Joint meeting of radiocommunication study group 4(fixed-satellite service) and study group 9(Fixed service)	2000. 7.31
Administrative Circular CACE/183		Meeting of radiocommunication study group 9 (Fixed service)	2000. 7.28
Document 11/200- E		List of documents issued(Document 11/151 to 11/200)	2000. 2.21
Document 10/126- E	ITU- T SG16	Multimedia studies- potential overlap	2000. 2.29
Document 11/203- E		Summary record of the first meeting of SG 11 Geneva, Thursday, 10 February 2000, 9:30- 17:00	2000. 3. 3
Document 11/204- E		Summary record of the second meeting of SG11 Geneva, february11, 2000, 9:00- 12:00	2000. 3. 3
Document 10/127- E	TG10/6	Draft revision of recommendation ITU- R BS.1348 Service requirement for digital sound broadcasting at frequencies below 30MHz (Question ITU- R 217- 1/10)	2000. 4. 3
Document 10/128- E	TG10/6	System recommendation for digital sound broadcasting at frequencies below 30MHz	2000. 4.13
Document 4- 9S/179- E	WP4A	Frequency sharing between the fixed-satellite service and the fixed service in the band 37.5-42.5 GHz	2000. 3.23
Document 4- 9S/2- E	WP4- 9S	Additional report to the next meeting of WP 4- 9S(2-9 October 2000)	2000. 7.11
Document 4- 9S/1- E	BR	Documents to be carried forward to the next study period (2000-2002)	2000. 7.15
Document 9A/7- E	WP3M	Propagation aspects of bringing-into-service digital radio-relay system	2000. 7.27
Document 9A/6- E	WP3M	Multipath fading prediction for link hop lengths less than 7 km	2000. 7.27
Document 9A/5- E	WP3M	Number of fade events and fade duration statistics	2000. 7.27
Document 9A/4- E	WP3M	SDH performance prediction and proposed revisions to recommendation ITU- R P.530- 8	2000. 7.27
Document 9A/3- E	WP3M	The design of digital radio-relay systems and minimizing outage due to multipath propagation	2000. 7.27
Document 9A/2- E	WP3M	Joint rapporteur group 3M- 9A	2000. 7.25
CircularLetter 7/LCCE/25		Meeting of working party 7A (Time signals and frequency standard emissions)	2000. 7.24
CircularLetter 9/LCCE/52		Meetings of working parties 9A,9B,9C and 9D	2000. 7.27

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Circular Letter 4/LCCE/58 9/LCCE/53		Meeting of working party-49S (frequency sharing between the fixed-satellite service and the fixed service)	2000. 7.20
Document 4B/76- E	ITU- TSG I3	Status of ITU- T recommendations G.828 and G.829	2000. 4. 5
Document 9A/118- E	JRG8A- 9B	Development of quality of service recommendations	2000. 4.28
Document 4B/72- E	ITU- TSG4	Reply to liaison statement on recommendation M.2101	2000. 2.22
Document 9A/116- E	ITU- TSG	Determination of draft new recommendation M.13SDH	2000. 2.21
Document 4B/68- E	ITU- TSG I3	Status of draft new recommendations G.828 and G.829	2000. 12.8
Document 9A/114- E	ITU- TSG I3	Availability objectives in ITU- R recommendations	'99.12. 3
Document 9A/113- E	ITU- TSG I3	Progress on IP performance recommendations	'99.12.. 3
Document 4B/77- E	ITU- TSG I3	IP performance and availability objectives and allocations	2000. 4. 5
Document 10- 11/40- E		International organisation for standardisation ISO/IEC JTC 1/SC29/WG11	2000. 2..26
Administrative Circular CACE/ 187		Extraordinary meeting of radiocommunication study group 6(broadcasting service)	2000. 8. 7
Administrative Circular CACE/ 186		Announcement of the establishment of joint task group 1-6-8-9 concerning technical and regulatory requirements of terrestrial wireless interactive multimedia applications	2000. 8. 7
Circular Letter 1/LCC E/40		Meeting of working parties 1A, 1B and 1C and task group 1/5 in conjunction with a meeting of radiocommunication study group 1	2000. 8. 4
Document 4B/67- E	JRG8A- 9B	Development of quality of service recommendations	'99. 8. 4
Document 4B/67- E	WP4- 9S	Earth stations located on board vessels operating in FSS networks in bands 3700-4200 and 5925-6425 MHz	'99. 7.26
Document 10/127- E	TG 10/6	Draft revision of recommendation ITU- R BS.1348 service requirements for digital sound broadcasting at frequencies below 30 MHz	2000. 4.13
Document 10/126- E	ITU- TSG 10	Multimedia studies- potential overlap	2000. 2.29
Document 10/125- E	SG 10,11	Summary record of the third joint meeting of SGs 10 and 11	2000. 1.31
Document 10/124- E	SG 10,11	Summary record of the second joint meeting of SGs 10 and 11	2000. 1.31
Document 10/123- E	SG 10,11	Summary record of the first joint meeting of study groups 10 and 11	2000. 1.31
Document 1C/53- E	TG 1/5	Liaison statement to study group 10 and working parties 1C,8A,8B,9C,10A,10B and 11C	2000. 1.26
Document 10/121- E	ABU	System standard for digital sound broadcasting below 30 MHz	2000.1.18

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Document 10- 11Q/69- E	JWP 10- 11Q	Joint working party 10- 11Q-third meeting	2000. 4.13
Document 10- 11Q/70- E		International organisation for standardisation organisation internationale de normalisation iso/iec jtc 1/sc29/wg 11	2000. 4.30
Document 10- 11Q/71- E		International organisation for standardisation iso/iec jtc 1/sc29/wg 11- N3054	2000. 6. 2
Circular Letter 8/LCCE/25		Correspondence Groups of working party 8A	2000. 6.29
Circular Letter CA/6		Draft modification to a rule of procedure	2000. 7. 5
Document 4B/78- E	ITU-TSG 15	New versions of the access network transport(ant)standardization plan and work plan	2000. 4.26
CACE/ 180		Meeting of radiocommunication study group 4(fixed- satellite service)	2000 6.10
Document 9B/2- E	ITU-TSG 1/5	Liaison statement to ITU-T study groups 4,6,9,11,12,13 and ITU-R study groups 4,8 and 9	2000.7. 5
Document 9B/1- E	BR	Documents to be carried forward to the next study period(2000- 2002)	2000. 7.10
Document 7C/204- E	JRG8A- 9B	Sharing in the band 5250- 5350 MHz between the earth exploration-satellite service(active) allocated in this band and the radio local area networks(RLANS)	2000. 3.20
Administrative Circular CA/82		Invitation to participate in the work of the Radiocommunication study groups and the special committee on regulatory/procedural matters in the study period 2000- 2003	2000. 7. 7
Circular Letter 4/LCCE/57		Meeting of working parties 4A,4B and 4SNG	2000. 7. 28
Circular CACE/ 179		Meeting of radiocommunication study group 6(broadcasting service)	2000. 7. 7
Document 9D/160- E	JRG9D/10 - 11S	Chairmen's report for the third meeting of JRG 9D/10- 11S	2000. 4.17
Document 7B/79- E	JRG7D/9D	Technical and operational requirements that facilitate sharing between point-to- multipoint systems in the fixed service and the inter- satellite service in the band 25.25- 27.5 GHz	2000. 3. 1
Document 9D/157- E	TG 1/5	Preliminary draft new recommendation on the protection of passive services from unwanted emissions	2000. 1.21
Document 6/BL/4- E	SG 11	Test materials to be used in subjective assessment(Question ITU-R 211/11)	2000. 5. 9
Document 6/BL/3- E	SG 11	Error- correction,data framing,modulation and emission methods for digital terrestrial television broadcasting(Question ITU-R 121/11)	2000. 5. 9
Circular CAR/88		Proposed approval of 2 draft new and 2 draft revised recommendations adopted by former radiocommunication study group 11 following study group consultation	2000. 7.12

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Document 4B/78- E	ITU-TSG15	New versions of the access network transport(ANT) standardization plan and work plan	2000. 4.26
Document 8F/35- E	ITU-TSG7	Liaison statement to working party 8F(for information)	2000. 4.26
Document 8F/34- E	ITU-TSG13	Multimedia co-ordination- "status of activities report"	2000. 3.30
Document 10- 11/40- E	IOS	Liaison statement to itu-r task group 11/5 and joint task group 10- 11	2000. 4.26
Document 8A/134- E	JWP 10- 11S	Liaison statement to working party 9D, working party 8A and JRG9D- 10- 11S/2 regarding the PFD limits in sections 5B) and 5C) of annex 1 to appendix S30	2000.11.4
Document 8B/1- E	BR	Document to be carried forward to the next study period (2000- 2002)	2000. 7.15
Document 8B/2- E	WP8B /TG1- 5	Liaison statement to working party 8B	2000. 7.31
Document 8B/109- E	TG1/5	Out-of-band emission limits and measurement techniques for primary radars	2000.10. 1
Document 4A/429- E	TG1/5	Boundary between spurious and out-of-band emissions	'99.10. 4
Document 4A/430- E	TG1/5	On out-of-band regions of multi-carrier systems	'99.10.13
Document 8B/112- E	WP9C	Further studies on the use of frequency adaptive systems in the MF/HF bands in accordance with resolution 729(WRC- 97)	'99.12. 3
Document 8B/114- E	TG1/5	Liaison statement to working parties 8B and 8D concerning PDNR on protection of safety services from unwanted emissions	2000. 1.25
Document 4A/437- E	TG1/5	Concerning a preliminary draft new recommendation on the protection of passive services from unwanted emissions	2000. 1.18
Document 1C/53- E	TG1/5	OOB emission measurements below 30 MHz	2000. 1.26
Document 8B/116- E	WP7C	Sharing in the band 35.5-36 GHz between the earth exploration-satellite service(active) and space research service(active), and other services allocated in this band	2000. 2.10
Document 8B/117- E	WP7C	Sharing in the band 5250- 5570 GHz between the earth exploration-satellite service(active) and space research service(active), and other services allocated in this band (Question ITU- R 218- 7)	2000. 2.10
Document 8B/118- E	TG1/5	Liaison statement to working party 8B	2000. 3.14
Document 7B/80- E	WP8A	Status of the studies on the telecommand links in the space research and space operation services in the frequency range 100MHz to 1GHz	2000. 3.21
Document 7B/82- E	WP4A	Working document towards a revision of recommendation ITU- R S.1068	2000. 3.22

	SG		
Document 8B/121-E	WP4A	Study on characteristics of radars and mitigation techniques for the protection of FSS systems in the 17.3- 17.7 GHz band	2000. 3.23
Document 8B/114-E	TG 1/5	Liaison statement to working parties 8B concerning PDNR on protection of safety services from unwanted emissions	2000. 1.25
Document 8D/327-E	WP7C	Technical information regarding resolution 127(WRC- 97)	2000. 1.10
Document 4A/534-E	WP7D	Progress on the band-by-band study for the protection of passive services from UNWanted emissions	2000. 1.21
Document 8D/329-E	WP8F	Creation of the working group on satellite coordination within working party 8F	2000. 3.16
Document 8D/330-E	WP8A	On frequency sharing between the MSS and the land mobile service	2000. 3.21
Document 8D/331-E	WP8A	TICS: VICS and MSS in the 2.5 GHz band	2000. 3.21
Document 1-5/274-E	WP4A	Proposal for interference calculations between radio astronomy telescopes and NGSO satellite systems	2000. 2.28
Document 8D/333-E	WP8A	Liaison statement to relevant external organizations and ITU-R working party 8D	2000. 4.19
Document 4B/78-E	ITU-TSG 15	New versions of the access network transport(ANT) standardization plan and work plan	2000. 4.26
Document 3M/7-E	WP 3M	Chairman's report to next meeting of WP 3M	2000.10.23
Document 3M/1-E	WP 7E	Sharing between high density links in the fixed service and other services in the frequency range from 30 to about 50GHz	2000. 8.29
Document 1A/9-E	WP 8F	Methodology for assessing the potential for interference between IMT-2000 and other services	2000. 9. 8
Document 3K/3-E	WP 3K, 3M	Propagation considerations in assessing the potential for interference between IMT-2000 and other services	2000. 9.21
Document 3M/4-E	WP 9A	Recognition of recommendation ITU-R P.530	2000. 9.27
Document 4A/77-E	JRG 8A-9B	Building attenuation at around 5GHz	2000. 9.28
Document 3K/4-E	WP 8A	Propagation models for interference assessment for the terrestrial land mobile service in the bands 30 to 3,000MHz	2000.10.18
Document 3M/8-E	WP 4A	Average building attenuation relating to the protection of non-GSO MSS feeder links operating in the band 5,150- 5,250MHz from RLAN interference	2000.10.23
Document 3M/9-E	WP 9A	The design of digital radio-relay systems	2000.10.23
Document 3M/10-E	WP 9A	Information on number of fade events and bring-info-service time	2000.10.23
Document 3M/11-E	WP 9A	Multipath fading prediction for link hop lengths less than 7 km	2000.10.23

	SG		
Document 3M12- E	WP 9A	Sharing between high-density links in the fixed service and other services in the frequency range from 30GHz to about 50GHz	2000.10.23
Document 3M13E	WP 4-9S	Satellite downlink fading	2000.10.23
Document 3L/1- E	WP 3L	Ionospheric propagation	2000. 9.31
Circular Letter 8/LCCE/82		Updating of recommendation ITU-R M.1457(Detailed specifications of the radio interfaces of IMT-2000)	2000.10. 4
Administrative Circular CACE/186		Proposed approval of 4 draft new questions and 2 draft revised questions adopted radiocommunication study group 7 at its meeting held on 16 and 17 October 2000	2000.12. 6
Administrative Circular CACE/198		To administrations of member states of the ITU and radiocommunication study groups and the special committee on regulatory/procedural matters	2000.12. 5
CACE/104		Proposed approval of 2 draft new questions adopted by radiocommunication study group 1 at its meeting on 1 and 2 November 2000	2000.12. 1
8/LCCE/87		Procedures for acknowledging all-ship digital selective calling distress alert always, and improvements to digital selective calling standards	2000.11.30
8/LCCE/86		To administrations of member states of the ITU and radiocommunication sector members participating in the work of working party 8F of radiocommunication study group 8	2000.11.27
Document 8A/37(Rev.1)- E	JRG 8A- 9B	Vocabulary of terms for wireless access	2000.10.23
Document 8A/39- E	WP 8D	Request for information on sharing methodologies concerning agenda item 1.11(resolution 216)of WRC-03 circular letter from WP 8D	2000.10.24
Document 4A/88- E	SG 1	Four draft recommendations on unwanted emissions and new definitions about unwanted emissions in the out-of- band and spurious domains	2000.11. 9
Document 1- 6- 8- 9/13- E	WP 1B	Technical convergence with respect to terrestrial fixed, mobile and broadcasting interactive multimedia applications and the associated regulatory environment	2000.11. 9
Circular Letter 8/LCCE/83		Survey on public protection and disaster relief	2000.11.20
Administrative Circular CAR/95		Proposed approval of 1 draft new and 9 draft revised questions adopted by radiocommunication study group 9 at its meeting of 28-29 september 2000	2000.11.21
CA/88		Questionnaire on FSS system parameters	2000.12. 5
Administrative Circular CA/89		Request for administrations and sector member to supply data on the characteristics of radiolocation and radionavigation systems operating in frequency band 13.75- 14.0GHz	2000.11.30

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Administrative Circular CA/90		Request for administrations and sector members to supply data on the characteristics of GSO/FSS earth stations uplinking in the band 14- 14.5GHz	2000.11.30
Administrative Circular CA/91		Request for submission of network parameters that use allocations under the purview of radiocommunication study 8 in the band 12- 14.5GHz	2000.12. 5
Document 7B/11- E	WP 7B	Report on the 31 july-4 August 2000 meeting of working party 7B with a view to its next meeting(may 2001)	2000. 9.15
Circular Letter 1/LCCE/41		To administrations of members of the ITU and other members of the radiocommunication sector participating in the working party 1C of radiocommunication study group 1	2000. 9.20
Document 1/2- E	SG 1	Report on the meeting of ITU- R study group 1 (Assen, 25 to 26 august 1999)	2000. 6.24
Document 1/68- E	TG 1/5	Out-of-band emissions falling into adjacent allocated bands	2000. 3. 7
Document 1/1- E	SG 1	Questions assigned to radiocommunication study group 1	2000. 2.10
Document 1/1- E	SG 1	Questions assigned to radiocommunication study group 1 by the radiocommunication assembly	2000. 5.10
Circular Letter 9/LCCE/55		To member states of the ITU and radiocommunication sector members participating in the work of working parties 9A, 9B and 9D of radiocommunication study group 9	2000.12.11
Document 4SNG/5- E	WP 4SNG	Chairman`s report to next meeting of WP 4SNG	2000.11.22
Circular Letter 8/LCCE/88 9/LCCE/56		Second meeting of the joint Rporteur group of working parties A and 9B on wireless access issues	2000.12. 8
Document 1/38(Rev.1)- E	WP 1A	GENERAL PRINCIPLES AND METHODS FOR SHARING BETWEEN RADIOCOMMUNICATION SERVICES OR BETWEEN RADIO STATIONS	2000.11.16
Document 1/37(Rev.1)- E	TG 1/5	The protection of passive services from unwanted emissions	2000.11.15
Document 1/33(Rev.1)- E	TG 1/5	Unwanted emissions in the out-of-band domain	2000.11.15
Document 1/27(Rev.1)- E	TG 1/5	Unwanted emissions in the out-of-band domain Falling into adjacent allocated bands	2000.11.15
Document 1/26(Rev.1)- E	TG 1/5	Variation of the boundary between the out-of-band and spurious domains required for the application of recommendations ITU- R AM.[OOB] and ITU- R SM.329	2000.11.15
Document 1/25(Rev.1)- E	TG 1/5	Spurious emissions	2000.11.15
Document 1/19(Rev.1)- E	WP 1A	Technical and operating parameters and spectrum requirements for short-range radiocommunication devices	2000.11.15
Document 1/18(Rev.1)- E	WP 1C	Automation and integration of spectrum monitoring systems with automated spectrum management	2000.11.15

	SG		
Administrative circular CAR/101		Proposed approval of 1 draft and 2 draft revised questions adopted by radiocommunication study group 8 at its meeting from 30-31 October 2000	2000.11.22
Administrative circular CACE/196		Announcement of the establishment of task group 6/7 on planning parameters for digital broadcasting at frequencies below 30 MHz	2000.11.22
Circular Letter 8/LCCE/85		Update procedure for revisions of recommendation ITU-R M.1457(Detailed specifications of the radio interfaces of IMT-2000)	2000.11.10
Circular CACE/197		Approval of 5 revised ITU-R questions and their assignment to radiocommunication study group 3	2000.11.22
Circular CACE/195		Proposed approval of 5 questions of study group 3 as suitable for the alternative approval procedure according to resolutions ITU-R 5-3 and 45	2000.11.22
Circular Letter 8/LCCE/84		Adoption of 2 draft new, 2 draft modified and 4 draft revised recommendations by study group 8 in accordance with section 10.2.2 of resolution ITU-R 1-3(Adoption by a study group by correspondence)	2000.11.17
Document 8/7(Rev.1)- E	WP 8A	Minimum qualifications of radio amateurs	2000.11. 7
Document 8/12(Rev.1)- E	WP 8B	Technical and operational characteristics of wind profiler radars in bands in the vicinity of 1000 MHz	2000.11. 6
Document 8/13(Rev.1)- E	WP 8B	Interim solutions for improved efficiency in the use of the band 156- 174MHz by stations in the maritime mobile service	2000.11. 6
Document 8/14(Rev.1)- E	WP 8B	Technical characteristics of methods of data transmission and interference protection for radionavigation services in the frequency bands between 70 and 130 kHz	2000.11. 6
Revision 1 to Document 8/17- E	WP 8B	Technical characteristics for a universal shipborne automatic identification system using time division multiple access in the VHF maritime mobile band	2000.11.18
Document 8/18(Rev.1)- E	WP 8D	Detailed specifications of the radio interfaces of international Mobile telecommunication- 2000 (IMT- 2000)	2000.10. 6
Document 8/19(Rev.1)- E	WP 8D	Key characteristics for the international mobile telecommunications- 2000 (IMT- 2000) radio interfaces	2000.11. 6
Document 8/20(Rev.1)- E	WP 8F	Measurement uncertainty as it applies to test limits for the terrestrial component of IMT- 2000	2000.11. 6
Document 4/4(Rev.1)- E	WP 4B	Availability objectives for a hypothetical reference circuit and a HRDP when used for telephony using PCM, or as part of an ISDN HRX, in the fixed-satellite service	2000.11. 9
Document 4/5(Rev.1)- E	WP 4B	Allowable error performance for a hypothetical reference digital path based on the synchronous	2000.11. 9

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Document 4/7(Rev.1)- E	WP 4B	Impact of loss of synchronization and timing recovery on availability in hypothetical reference digital paths	2000.11. 9
Document 4/10(Rev.1)- E	WP 4A	Simulation methodologies for determining statistics of short-term interference between co-frequency, codirectional non-geostationary-satellite orbit (non-GSO)fixed-satellite service(FSS) networks and other non-GSO FSS or GSO FSS network	2000.11. 9
Document 4/11(Rev.1)- E	WP 4A	Methodology for performing parametric evaluation studies of interference sensitivity for GSO FSS systems sharing spectrum in bands above 10GHz	2000.11. 9
Document 4/12(Rev.1)- E	WP 4A	GSO/ GSO FSS network coordination identification	2000.11. 9
Document 4/13(Rev.1)- E	WP 4A	Impact of interference, from the sun into a GSO FSS link	2000.11. 9
Document 4/14(Rev.1)- E	WP 4A	Definition of a non-GSO FSS system interference environment metric for co-directional frequency sharing between two non-GSO FSS system	2000.11. 9
Document 4/15(Rev.1)- E	WP 4A	Procedure for the identification of non-GSO satellites causing interference into an operating GSO earth station	2000.11. 9
Document 4/16(Rev.1)- E	WP 4A	Satellite antenna radiation pattern for non-GSO satellite antennas operating on the fixed-satellite service(FSS) below 30GHz	2000.11. 9
Document 4/17(Rev.1)- E	WP 4A	Teams and definitions relating to space radiocommunications	2000.11. 9
Document 4/17(Rev.1)- E	WP 4A	Analytical method for determining the statistics of interference between non-GSO fixed-satellite service (FSS) systems and other non-GSO FSS or GSO FSS systems	2000.11.20
Administrative Circular CAR/100		Proposed approval of 1 draft new and 1 draft revised questions adopted by radiocommunication study group 4 at its meeting on 6 october 2000	2000.11.13
Administrative Circular CAR/99		Proposed approval of 3 questions of study group 4 as suitable for the alternative approval procedure according to resolution ITU-R 5 and 45	2000.11. 8
Document 3/1(Rev.1)- E	SG 3	RADIOWAVE PROPAGATION	2000. 5.24
Document 4/17(Rev.1)- E	SG 3	Summary record of the second meeting of study group 3 thursday,13 July 2000	2000. 8. 1
Document 9A/28(Rev.1)- E	WP 9A	Chairman's report of the meeting of working party 9A held in GENEVA (18-25 september 2000)	2000.10.24
Document 4A/83- E	WP 4-9S	Anew methodology to be used for the evaluation of the impact of space-to-earth interference form the fixed-satellite service on the fixed service in frequency bands where fading de to rain in the predominant fade mechanism	2000.20.30
Administrative Circular CAR/98		Proposed approval of 1 draft new and 4 draft revised radiocommunication adopted radiocommunication study group 4	

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