

ITU-R SG4の新研究課題 衛星業務

Question ITU-R	Title	Category
<u>42-1/4</u>	Characteristics of antennas at earth stations in the fixed-satellite service	S1
<u>46-3/4</u>	Preferred multiple-access characteristics in the fixed-satellite service	S2
<u>55-2/4</u>	Feeder links in the fixed-satellite service used for the connections to and from geostationary satellites in various mobile-satellite services	S2
<u>68-1/4</u>	Frequency sharing of the fixed-satellite service and the inter-satellite service with other space radio services under provisions of No. 9.21 of the Radio Regulations	S3
<u>70-1/4</u>	Protection of the geostationary-satellite orbit against unacceptable interference from transmitting earth stations in the fixed-satellite service at frequencies above 15 GHz	S3
<u>73-2/4</u>	Availability and interruptions to traffic on digital paths in the fixed-satellite service	S2
<u>75-3/4</u>	Performance objectives of international digital transmission links in the fixed-satellite service	S1
<u>81-1/4</u>	Frequency sharing among networks in the fixed-satellite service, the mobile-satellite service and those of satellites equipped to operate in more than one service in the 20-50 GHz band	S3
<u>203-1/4</u>	The impact of using small antennas on the efficient use of the geostationary-satellite orbit	S2
<u>205-1/4</u>	Frequency sharing between non-geostationary satellite feeder links in the fixed-satellite service used by the mobile-satellite service	S2
<u>206-3/4</u>	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	S2
<u>208/4</u>	Use of statistical and stochastic methods in evaluation of interference between satellite networks in the fixed-satellite service	S3
<u>209/4</u>	The use of frequency bands allocated to the fixed-satellite service for both the up and down links of geostationary-satellite systems	S1
<u>214/4</u>	Technical implications of steerable and reconfigurable satellite beams	S2
<u>218-1/4</u>	Compatibility between on-board processing satellites in the fixed-satellite service and terrestrial networks	S2
<u>223/4</u>	Interference criteria for short-term interference events into the fixed-satellite service networks	S1
<u>231/4</u>	Sharing between networks of the fixed-satellite service using non-geostationary satellites and other networks of the fixed-satellite service	S2
<u>232/4</u>	Use of regenerative processing in fixed-satellite service allocations	S2
<u>233/4</u>	Dedicated user digital satellite communications systems and their associated architectures	S2
<u>235/4</u>	Use of operational facilities to meet power-flux-density limitation under Article 21 of the Radio Regulations	S2
<u>236/4</u>	Interference criteria and calculation methods for the fixed-satellite service	S2
<u>239/4</u>	Sharing criteria between systems utilizing inter-satellite links	S2

Question ITU-R	Title	Category
240-1/4	Technical criteria for frequency sharing between the fixed-satellite service using highly elliptical orbits and the fixed service as they affect the fixed-satellite service	S1
244/4	Sharing between feeder links of the mobile-satellite (non-geostationary) service in the band 5 091-5 250 MHz and the aeronautical radionavigation service in the band 5 000-5 250 MHz	C2
245/4	Out-of-band and spurious emission limits	S1
246/4	Sharing between the inter-satellite service, Earth-exploration satellite (passive) service and other services in frequency bands above 50 GHz	S2
247/4	Design objectives for radiation patterns applicable to non-geostationary-satellite orbit/mobile-satellite service feeder link earth stations operating in the 5/7 GHz band	S1
248/4	Frequency sharing between systems in the fixed-satellite service and wireless digital networks around 5 GHz	S1
251-1/4	Frequency sharing criteria between systems in the fixed-satellite service and systems in the fixed service using high-altitude platform stations	S1
252/4	Criteria for the protection of Appendix 30B Plan against interference from non-geostationary satellite orbit systems	S1
254-1/4	Sharing feasibility of earth stations on board vessels operating in the fixed-satellite service with stations in the fixed service in the band 5 925-6 425 MHz and other uplink frequency bands at 6 GHz and 14 GHz	S1
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	C2
259/4	Earth station off-axis e.i.r.p. density levels in the bands above 14.5 GHz allocated to the fixed-satellite service	S2
263-1/4	Performance objectives of digital links in the fixed-satellite service for transmission of Internet or higher layer Protocol packets	S1
264/4	Technical and operational characteristics of networks of the fixed-satellite service operating above 275 GHz	C2
266/4	Technical characteristics of high-density fixed-satellite service earth stations operating with geostationary satellite orbit fixed-satellite service networks in the 20/30 GHz bands	C1
267/4	Technical and operational considerations relating to the advance publication, coordination and notification of fixed-satellite networks	C2
268/4	Development of methodologies for the assessment of satellite unwanted emission levels before launch	S2
269/4	Spectrum requirements and technical and operational characteristics of user terminals (VSAT) for global broadband satellite systems	S1
270-1/4	Fixed-satellite service systems using very wideband spreading signals	S1
271/4	Interference between satellite news gathering (SNG) carriers by unintentional access	S1
272/4	Frequency sharing between the FSS and the space research service in the 37.5-38 GHz and 40-40.5 GHz bands	S2
273/4	Support of the modernization of civil aviation telecommunication systems and the extension of telecommunication systems to remote and developing regions with current and planned satellite networks	S1

Question ITU-R	Title	Category
3/6*	Digital broadcasting of multiple services and programmes in the broadcasting-satellite service	S2
21/6*	Characteristics of receiving systems in the broadcasting-satellite service (sound and television)	S2
22-1/6*	Satellite orbits and space station technology for the broadcasting-satellite service (sound and television)	S2
23/6*	Characteristics of systems in the broadcasting-satellite service (sound) for individual reception by means of portable and vehicular receivers	C2
26-1/6*	Interactive satellite broadcasting systems (television, sound and data)	S1
57/6*	Frequency sharing issues related to the introduction of the broadcasting-satellite service (sound) in the frequency range 1-3 GHz	C2
61/6*	Spectrum management issues related to the introduction of the broadcasting-satellite service (sound) in the frequency range 1-3 GHz	C2
70/6*	Frequency sharing for the feeder links to a broadcasting satellite (sound and television)	C2
71/6*	Sharing studies between high-definition television (HDTV) in the broadcasting-satellite service and other services	C2
72/6*	Digital techniques in the broadcasting-satellite service (sound and television)	S2
73-1/6*	Receiving earth station antennas for the broadcasting-satellite service	S1
74/6*	Radiation of unwanted emissions from space stations in the broadcasting-satellite service (sound and television)	C2
75/6*	Telemetry, tracking and command signals and test signals for maintenance testing of the radio-frequency characteristics of broadcasting satellites	S2
76/6*	Satellite broadcasting of high-definition television (HDTV)	C2
82/6*	Technical characteristics of feeder links to broadcasting satellites operating in the 12, 17 and 21 GHz bands	C2
83/6*	Characteristics of systems in the broadcasting-satellite service (sound and television) for reception by transportable and fixed receivers	S2
84/6*	Protection ratios for interference studies and system planning in the broadcasting-satellite service (sound and television)	C2
85/6*	Simultaneous transmissions of TV programmes on BSS and FSS services from a multiservice space station	S2
94/6*	Access to orbit and spectrum resources for the broadcasting-satellite service and the fixed-satellite service "direct-to-home" applications	C2
104/6*	Sharing criteria for BSS networks in the 17.3-17.8 GHz band in Region 2, and in the 21.4-22 GHz band in Regions 1 and 3, and their associated feeder links	S1
118-1/6*	Broadcasting means for public warning, disaster mitigation and relief	S1

* See the footnote for Study Groups 4 and 6 in Annex 1 to Resolution ITU-R 4-5.

Question ITU-R	Title	Category
83-5/8	Efficient use of the radio spectrum and frequency sharing within the mobile-satellite service	S1
84-4/8	Use of non-geostationary-satellite orbits in mobile-satellite services	S2
85-1/8	Availability of circuits in mobile-satellite services	S2
87-4/8	Transmission characteristics for a mobile-satellite communication system	S2
88-1/8	Propagation and mobile earth station antenna characteristics for mobile-satellite services	S3
90/8	Technical and operating characteristics of systems providing radiocommunication using satellite techniques for distress and safety operations	S2
91-1/8	Technical and operating characteristics of the radiodetermination-satellite service	S2
109-1/8	Global Maritime Distress and Safety System requirements for mobile-satellite systems operating in the bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz	S1
110-1/8	Interference to the aeronautical mobile-satellite (R) service	S2
112/8	Performance objectives for digital mobile-satellite services	S3
201-1/8	Frequency sharing between mobile-satellite services and other services	C2
210-1/8	Technical characteristics for mobile earth stations operating with global non-geostationary-satellite systems in the mobile-satellite service in the band 1-3 GHz	S1
211-2/8	Interference criteria and calculation methods for the mobile-satellite service	S1
217-2/8	Interference to the radionavigation-satellite service in the ICAO global navigation satellite system	S2
218/8	Essential technical requirements of mobile earth stations for global and regional geostationary mobile-satellite service systems in the band 1-3 GHz	S1
227/8	Technical and operational characteristics of emergency communications in the mobile-satellite service	S1
228-1/8	Future submission of satellite radio transmission technologies for International Mobile Telecommunications-2000	S1
233/8	Technical and operational characteristics for packet network transmission in mobile-satellite services	S1
236-2/8	Characteristics and operational requirements of radionavigation-satellite service (space-to-Earth, space-to-space, Earth-to-space) systems	S2
239-1/8	Methodology for the coordination of radionavigation-satellite service systems and networks	S2