

**Broadcasting-satellite service (sound and television)**

<a href="#">BO.566</a>	1990-06	Withdrawn	Terminology relating to the use of space communication techniques for broadcasting
<a href="#">BO.600</a>	1986-07	In force	Standardized set of test conditions and measurement procedures for the subjective and objective determination of protection ratios for television in the terrestrial broadcasting and the broadcasting-satellite services
<a href="#">BO.650</a>	1992-03	In force	Standards for conventional television systems for satellite broadcasting in the channels defined by Appendix 30 of the Radio Regulations
<a href="#">BO.651</a>	1986-07	In force	Digital PCM coding for the emission of high-quality sound signals in satellite broadcasting (15 kHz nominal bandwidth)
<a href="#">BO.652</a>	1992-03	In force	Reference patterns for earth-station and satellite antennas for the broadcasting-satellite service in the 12 GHz band and for the associated feeder links in the 14 GHz and 17 GHz bands
<a href="#">BO.712</a>	1992-03	In force	High-quality sound/data standards for the broadcasting-satellite service in the 12 GHz band
<a href="#">BO.786</a>	1992-03	In force	MUSEsystem for HDTV broadcasting-satellite services
<a href="#">BO.787</a>	1992-03	In force	MAC/packet based system for HDTV broadcasting-satellite services
<a href="#">BO.788</a>	1994-08	In force	Coding rate for virtually transparent studio quality HDTV emissions in the broadcasting-satellite service
<a href="#">BO.789</a>	1995-10	In force	Service for digital sound broadcasting to vehicular, portable and fixed receivers for broadcasting-satellite service (sound) in the frequency range 1 400-2 700 MHz
<a href="#">BO.790</a>	1992-03	In force	Characteristics of receiving equipment and calculation of receiver figure-of-merit (G/T) for the broadcasting-satellite service
<a href="#">BO.791</a>	1992-03	In force	Choice of polarization for the broadcasting-satellite service
<a href="#">BO.792</a>	1992-03	In force	Interference protection ratios for the broadcasting-satellite service (television) in the 12 GHz band
<a href="#">BO.793</a>	1992-03	In force	Partitioning of noise between feeder links for the broadcasting-satellite service (BSS) and BSS down links
<a href="#">BO.794</a>	1992-03	In force	Techniques for minimizing the impact on the overall BSS system performance due to rain along the feeder-link path
<a href="#">BO.795</a>	1992-03	In force	Techniques for alleviating mutual interference between feeder links to the BSS
<a href="#">BO.1130</a>	2001-04	Pre-published	Draft rev. of Rec. BO.1130-3 - System description and selection for digital satellite broadcasting to vehicular, portable and fixed receivers in the bands allocated to bss (sound) in the frequency range 1 400-2 700 MHz - (Question ITU-R 93/10)
<a href="#">BO.1211</a>	1995-10	In force	Digital multi-programme emission systems for television, sound and data services for satellites operating in the 11/12 GHz frequency range
<a href="#">BO.1212</a>	1995-10	In force	Calculation of total interference between geostationary-satellite networks in the broadcasting-satellite service
<a href="#">BO.1213</a>	1995-10	In force	Reference receiving earth station antenna patterns for replanning purposes to be used in the revision of the WARC-77 BSS plans for Regions 1 and 3
<a href="#">BO.1293</a>	2000-03	In force	Protection masks and associated calculation methods for interference into broadcast-satellite systems involving digital emissions
<a href="#">BO.1294</a>	1997-10	In force	Common functional requirements for the reception of digital multiprogramme television emissions by satellites operating in the 11/12 GHz frequency range
<a href="#">BO.1295</a>	1997-10	In force	Reference transmit Earth station antenna off-axis e.i.r.p. patterns for planning purposes to be used in the revision of the Appendix 30A (Orb-88) Plans of the Radio Regulations at

14 GHz and 17 GHz in Regions 1 and 3

<a href="#">BO.1296</a>	1997-10	In force	Reference receive space station antenna patterns for planning purposes to be used for elliptical beams in the revision of the Appendix 30A (Orb-88) Plans of the Radio Regulations at 14 GHz and 17 GHz in Regions 1 and 3
<a href="#">BO.1297</a>	1997-10	In force	Protection ratios to be used for planning purposes in the revision of the Appendices 30 (Orb-85) and 30A (Orb-88) Plans of the Radio Regulations in Regions 1 and 3
<a href="#">BO.1373</a>	1998-11	In force	Use of BSS assignments for FSS transmissions
<a href="#">BO.1383</a>	1998-12	In force	Introduction of the broadcasting-satellite service (sound) in the same frequency bands as used by mobile aeronautical telemetry systems in the frequency range 1-3 GHz
<a href="#">BO.1408</a>	1999-10	In force	Transmission system for advanced multimedia services provided by integrated services digital broadcasting in a broadcasting-satellite channel
<a href="#">BO.1443</a>	2000-03	In force	Reference BSS earth station antenna patterns for use in interference assessment involving non-GSO satellites in frequency bands covered by RR Appendix S30
<a href="#">BO.1444</a>	2000-03	In force	Protection of the broadcasting-satellite service in the 12 GHz band and associated feeder links in the 17 GHz band from interference caused by non-geostationary fixed-satellite service systems
<a href="#">BO.1445</a>	2000-03	In force	Improved patterns for fast roll-off satellite transmit antennas of the Regions 1 and 3 BSS plans of RR Appendix S30
<a href="#">BO.1503</a>	2000-05	In force	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 Regulation (Resolutions ITU-R 130, 538 (CMR-97))
<a href="#">BO.1504</a>	2000-07	In force	Effective utilization of spectrum assigned to the broadcasting-satellite service (sound)
<a href="#">BO.1505</a>	2000-07	In force	Coordination procedure for assignments of space operation service in the guardbands of Appendices S30 and S30A Plans of the Radio Regulations
<a href="#">BO.1506</a>	2000-07	In force	A methodology to evaluate the impact of solar interference on GSO BSS link performance
<a href="#">BO.1516</a>	2001-04	Pre-published	Draft new Rec. BO.[DOC. 6/35] - Digital multiprogramme television systems for use by satellites operating in the 11/12 GHz frequency range - (Question ITU-R 217/11,101/11)
<a href="#">BO.1517</a>	2001-04	In force	Equivalent power flux-density limits, epfd, to protect the broadcasting-satellite service in the 12 GHz band from interference caused by non-geostationary fixed-satellite service systems

**Sound and television recording**

<a href="#">BR.265</a>	1997-10	In force	Standards for the international exchange of programmes on film for television use
<a href="#">BR.407</a>	1990-06	In force	International exchange of sound programmes recorded in analogue form
<a href="#">BR.408</a>	2001-04	In force	International exchange of sound programmes recorded in analogue form
<a href="#">BR.469</a>	1992-03	In force	Analogue composite television tape recording. Standards for the international exchange of television programmes on magnetic tape
<a href="#">BR.501</a>	1990-06	Withdrawn	Appraisal of programmes on colour film intended for television use
<a href="#">BR.602</a>	2000-03	In force	Exchange of television recordings for programme evaluation
<a href="#">BR.648</a>	1986-07	In force	Digital recording of audio signals
<a href="#">BR.649</a>	1992-03	In force	Measuring methods for analogue audio tape recordings
<a href="#">BR.657</a>	1992-03	In force	Digital television tape recording. Standards for the international exchange of television programmes on magnetic tape
<a href="#">BR.713</a>	1997-10	Withdrawn	Recording of high definition television (HDTV) images on film
<a href="#">BR.714</a>	1994-08	In force	International exchange of programmes electronically produced by means of high-definition television
<a href="#">BR.715</a>	2001-04	In force	International exchange of analogue electronic news gathering recordings
<a href="#">BR.716</a>	1994-08	Withdrawn	Area of 35 mm motion picture film used in HDTV telecines
<a href="#">BR.777</a>	2001-04	In force	International exchange of two-channel digital audio recordings
<a href="#">BR.778</a>	1994-08	In force	Analogue component television tape recording. Standards for the international exchange of television programmes on magnetic tapes
<a href="#">BR.779</a>	1997-10	In force	Operating practices for digital television recording
<a href="#">BR.780</a>	1992-03	In force	Time and control code standards for the international exchange of television programmes on magnetic tapes
<a href="#">BR.781</a>	1994-08	Withdrawn	HDTV telecine colour balance for film programmes
<a href="#">BR.782</a>	1994-08	Withdrawn	Area of 35 mm print film used for 4:3 conventional television systems
<a href="#">BR.783</a>	1994-08	Withdrawn	Area of 35 mm release print film used for conventional 16:9 television systems
<a href="#">BR.784</a>	1992-03	Withdrawn	Exchange of television programmes on 16-mm film with two synchronous sound tracks on a separate support
<a href="#">BR.785</a>	2001-04	In force	The release of programmes in a multiple release media environment
<a href="#">BR.1214</a>	1995-10	In force	Studio recording of sound-broadcasting programmes on magnetic tape for release on multi-programme digital channels
<a href="#">BR.1215</a>	1995-10	In force	Handling and storage of television and sound recordings on magnetic tape
<a href="#">BR.1216</a>	2001-04	In force	Recording of television or sound programmes on magnetic tape in the case when several programmes are intended for broadcasting in the same digital multiplex
<a href="#">BR.1217</a>	1995-10	Withdrawn	Recording of pan-scan data of 16:9 recordings within the user bits of the longitudinal time code
<a href="#">BR.1218</a>	2001-04	In force	Recording of ancillary data on digital recorders for consumer use
<a href="#">BR.1219</a>	1995-10	In force	Handling and storage of cinematographic film recording
<a href="#">BR.1220</a>	2001-04	In force	Requirements for the generation, recording and presentation of HDTV programmes intended for release in the "electronic cinema"
<a href="#">BR.1287</a>	2001-04	In force	Broadcasting of programmes on film with multichannel sound
<a href="#">BR.1288</a>	1997-10	Withdrawn	Scanned area of 16 mm and 35 mm release film used for 4:3 conventional television

systems

<a href="#">BR.1289</a>	1997-10	Withdrawn	Scanned area of 16 mm and 35 mm release film used for 16:9 conventional television systems
<a href="#">BR.1290</a>	1997-10	In force	Use of television disk recording in broadcasters' operations
<a href="#">BR.1291</a>	1997-10	Withdrawn	Scanned area of Super 16 mm film for production and post-production in 16:9 television systems
<a href="#">BR.1292</a>	1997-10	In force	Engineering guidelines for television post-production
<a href="#">BR.1351</a>	1998-02	In force	Requirements for the application of digital technology to audio archiving systems for radio broadcasting
<a href="#">BR.1352</a>	1998-02	In force	File format for the exchange of audio programme materials on information technology media
<a href="#">BR.1353</a>	1998-02	Withdrawn	Recording of data in the user bits of the longitudinal time code
<a href="#">BR.1354</a>	1998-02	Withdrawn	Transfer of film programmes to video tape for programme exchange and for preservation of endangered films
<a href="#">BR.1355</a>	2000-03	In force	Viewing conditions for telecine transfer of film images on a television display
<a href="#">BR.1356</a>	1998-02	In force	User requirements for application of compression in television production
<a href="#">BR.1357</a>	1998-02	In force	Use of wrappers and metadata in television production
<a href="#">BR.1374</a>	2001-06	Pre-published	Draft modification to Recommendation ITU-R BR.1374 - Scanned area dimensions from 16 mm and 35 mm cinematographic film used in television - (Question ITU-R 240/11)
<a href="#">BR.1375</a>	2001-04	In force	High-definition television (HDTV) recording
<a href="#">BR.1376</a>	1998-11	In force	Compression families to be used in networked television production
<a href="#">BR.1384</a>	1998-12	In force	Parameters for international exchange of multi-channel sound recordings
<a href="#">BR.1385</a>	1998-12	In force	Exchange of sound programmes on recordable compact discs (CD-R)
<a href="#">BR.1422</a>	1999-12	In force	Operational practices for television use of film soundtracks encoded with noise reduction and matrix surround
<a href="#">BR.1440</a>	2000-03	In force	16:9 video images transferred to 35 mm film for optical projection
<a href="#">BR.1441</a>	2000-03	In force	Compromise scanned area dimensions for television from 35 mm wide-screen films
<a href="#">BR.1442</a>	2000-03	In force	User's requirements for digital HDTV tape cassette recorders
<a href="#">BR.1515</a>	2001-04	In force	International exchange of digital electronic news gathering recordings
<a href="#">BR.1530</a>	2001-06	Pre-published	Draft new Recommendation ITU-R BR.[DOC. 6/93] - Guide to Recommendations on the use of film in television - (Question ITU-R 240/11)
<a href="#">BR.1531</a>	2001-06	Pre-published	Draft new Recommendation ITU-R BR.[DOC. 6/95] - Exchange of sound programmes for broadcast use recorded as broadcast wave format (BWF) files on CD-R and DVD-R recordable data disks - (Question ITU-R 215/10)

**Broadcasting service (sound)**

<a href="#">BS.48</a>	1986-07	In force	Choice of frequency for sound-broadcasting in the Tropical Zone
<a href="#">BS.80</a>	1990-06	In force	Transmitting antennas in HF broadcasting
<a href="#">BS.139</a>	1990-06	In force	Transmitting antennas for sound broadcasting in the Tropical Zone
<a href="#">BS.215</a>	1982-07	In force	Maximum transmitter powers for broadcasting in the Tropical Zone
<a href="#">BS.216</a>	1982-07	In force	Protection ratio for sound broadcasting in the Tropical Zone
<a href="#">BS.411</a>	1990-06	In force	Fading allowances in HF broadcasting
<a href="#">BS.412</a>	1998-12	In force	Planning standards for terrestrial FM sound broadcasting at VHF
<a href="#">BS.415</a>	1986-07	In force	Minimum performance specifications for low-cost sound-broadcasting receivers
<a href="#">BS.450</a>	1995-10	In force	Transmission standards for FM sound broadcasting at VHF
<a href="#">BS.467</a>	1970-07	In force	Technical characteristics to be checked for frequency-modulation stereophonic broadcasting. Pilot-tone system
<a href="#">BS.468</a>	1986-07	In force	Measurement of audio-frequency noise voltage level in sound broadcasting
<a href="#">BS.498</a>	1990-06	In force	Ionospheric cross-modulation in the LF and MF broadcasting bands
<a href="#">BS.559</a>	1990-06	In force	Objective measurement of radio-frequency protection ratios in LF, MF and HF broadcasting
<a href="#">BS.560</a>	1997-10	In force	Radio-frequency protection ratios in LF, MF, and HF broadcasting
<a href="#">BS.561</a>	1986-07	In force	Definitions of radiation in LF, MF and HF broadcasting bands
<a href="#">BS.562</a>	1990-06	In force	Subjective assessment of sound quality
<a href="#">BS.597</a>	1986-07	In force	Channel spacing for sound broadcasting in band 7 (HF)
<a href="#">BS.598</a>	1990-06	In force	Factors influencing the limits of amplitude-modulation sound-broadcasting coverage in band 6 (MF)
<a href="#">BS.599</a>	1982-07	In force	Directivity of antennas for the reception of sound broadcasting in band 8 (VHF)
<a href="#">BS.638</a>	1986-07	In force	Terms and definitions used in frequency planning for sound broadcasting
<a href="#">BS.639</a>	1986-07	In force	Necessary bandwidth of emission in LF, MF and HF broadcasting
<a href="#">BS.640</a>	1997-10	In force	Single sideband (SSB) system for HF broadcasting
<a href="#">BS.641</a>	1986-07	In force	Determination of radio-frequency protection ratios for frequency-modulated sound broadcasting
<a href="#">BS.642</a>	1990-06	In force	Limiters for high-quality sound-programme signals
<a href="#">BS.643</a>	1995-10	In force	System for automatic tuning and other applications in FM radio receivers for use with the pilot-tone system
<a href="#">BS.644</a>	1990-06	In force	Audio quality parameters for the performance of a high-quality sound-programme transmission chain
<a href="#">BS.645</a>	1992-03	In force	Test signals and metering to be used on international sound-programme connections
<a href="#">BS.646</a>	1992-03	In force	Source encoding for digital sound signals in broadcasting studios
<a href="#">BS.647</a>	1992-03	In force	A digital audio interface for broadcasting studios
<a href="#">BS.702</a>	1992-03	In force	Synchronization and multiple frequency use per programme in HF broadcasting
<a href="#">BS.703</a>	1990-06	In force	Characteristics of AM sound broadcasting reference receivers for planning purposes
<a href="#">BS.704</a>	1990-06	In force	Characteristics of FM sound broadcasting reference receivers for planning purposes
<a href="#">BS.705</a>	1995-10	In force	HF transmitting and receiving antennas characteristics and diagrams
<a href="#">BS.706</a>	1998-02	In force	Data system in monophonic AM sound broadcasting (AMDS)

<a href="#">BS.707</a>	1998-12	In force	Transmission of multisound in terrestrial television systems PAL B, D1, G, H and I, and SECAM D, K, K1 and L
<a href="#">BS.708</a>	1990-06	In force	Determination of the electro-acoustical properties of studio monitor headphones
<a href="#">BS.773</a>	1992-03	In force	Radio-frequency protection ratios required by FM sound broadcasting in the band between 87.5 MHz and 108 MHz against interference from D/SECAM television transmissions
<a href="#">BS.774</a>	1995-10	In force	Service requirements for digital sound broadcasting to vehicular, portable and fixed receivers using terrestrial transmitters in the VHF/UHF bands
<a href="#">BS.775</a>	1994-07	In force	Multi-channel stereophonic sound system with and without accompanying picture
<a href="#">BS.776</a>	1992-03	In force	Format for user data channel of the digital audio interface
<a href="#">BS.1114</a>	2001-04	In force	Systems for terrestrial digital sound broadcasting to vehicular, portable and fixed receivers in the frequency range 30-3 000 MHz
<a href="#">BS.1115</a>	1994-07	In force	Low bit-rate audio coding
<a href="#">BS.1116</a>	1997-10	In force	Methods for the subjective assessment of small impairments in audio systems including multichannel sound systems
<a href="#">BS.1194</a>	1998-12	In force	System for multiplexing frequency modulation (FM) sound broadcasts with a sub-carrier data channel having a relatively large transmission capacity for stationary and mobile reception
<a href="#">BS.1195</a>	1995-10	In force	Transmitting antenna characteristics at VHF and UHF
<a href="#">BS.1196</a>	2001-04	Pre-published	Draft rev. of Rec. BS.1196 - Audio coding for digital terrestrial television broadcasting - (Question ITU-R 78/10,208/10,211/10,121/11)
<a href="#">BS.1283</a>	1997-10	In force	Subjective assessment of sound quality - A guide to existing recommendations
<a href="#">BS.1284</a>	1997-10	In force	Methods for the subjective assessment of sound quality - General requirements
<a href="#">BS.1285</a>	1997-10	In force	Pre-selection methods for the subjective assessment of small impairments in audio systems
<a href="#">BS.1286</a>	1997-10	In force	Methods for the subjective assessment of audio systems with accompanying picture
<a href="#">BS.1348</a>	2001-02	In force	Service requirements for digital sound broadcasting to vehicular, portable and fixed receivers using terrestrial transmitters in the LF, MF and HF bands
<a href="#">BS.1349</a>	1998-02	In force	Implementation of digital sound broadcasting to vehicular, portable and fixed receivers using terrestrial transmitters in the LF, MF and HF bands
<a href="#">BS.1350</a>	1998-12	In force	Systems requirements for multiplexing (FM) sound broadcasting with a sub-carrier data channel having a relatively large transmission capacity for stationary and mobile reception
<a href="#">BS.1386</a>	2001-04	In force	LF and MF transmitting antennas characteristics and diagrams
<a href="#">BS.1387</a>	1998-12	In force	Method for objective measurements of perceived audio quality
<a href="#">BS.1423</a>	1999-12	In force	Guidelines for producing multichannel soundtracks using surround matrix techniques
<a href="#">BS.1514</a>	2001-04	In force	System for digital sound broadcasting in the broadcasting bands below 30 MHz
<a href="#">BS.1534</a>	2001-06	Pre-published	Draft new Recommendation ITU-R BS.[DOC. 6/106] - Method for the subjective assessment of intermediate audio quality - (Question ITU-R 220/10)



**Broadcasting service (television)**

<a href="#">BT.266</a>	1992-03	In force	Phase pre-correction of television transmitters
<a href="#">BT.417</a>	1992-03	In force	Minimum field strengths for which protection may be sought in planning a television service
<a href="#">BT.419</a>	1990-06	In force	Directivity and polarization discrimination of antennas in the reception of television broadcasting
<a href="#">BT.470</a>	1998-11	In force	Conventional television systems
<a href="#">BT.471</a>	1986-07	In force	Nomenclature and description of colour bar signals
<a href="#">BT.472</a>	1990-06	In force	Video-frequency characteristics of a television system to be used for the international exchange of programmes between countries that have adopted 625-line colour or monochrome systems
<a href="#">BT.500</a>	2000-03	In force	Methodology for the subjective assessment of the quality of television pictures
<a href="#">BT.565</a>	1978-07	In force	Protection ratios for 625-line television against radionavigation transmitters operating in the shared bands between 582 and 606 MHz
<a href="#">BT.601</a>	1995-10	In force	Studio encoding parameters of digital television for standard 4:3 and wide-screen 16:9 aspect ratios
<a href="#">BT.653</a>	1998-02	In force	Teletext systems
<a href="#">BT.654</a>	1986-07	In force	Subjective quality of television pictures in relation to the main impairments of the analogue composite television signal
<a href="#">BT.655</a>	2000-03	In force	Radio-frequency protection ratios for AM vestigial sideband terrestrial television systems interfered with by unwanted analogue vision signals and their associated sound signals
<a href="#">BT.656</a>	1998-02	In force	Interfaces for digital component video signals in 525-line and 625-line television systems operating at the 4:2:2 level of Recommendation ITU-R BT.601 (Part A)
<a href="#">BT.709</a>	2000-03	In force	Parameter values for the HDTV standards for production and international programme exchange
<a href="#">BT.710</a>	1998-11	In force	Subjective assessment methods for image quality in high-definition television
<a href="#">BT.711</a>	1992-09	In force	Synchronizing reference signals for the component digital studio
<a href="#">BT.796</a>	1992-03	In force	Parameters for enhanced compatible coding systems based on 625-line PAL and SECAM television systems
<a href="#">BT.797</a>	1994-07	In force	Parameters for 4:3 enhanced television systems that are NTSC-compatible
<a href="#">BT.798</a>	1994-07	In force	Digital terrestrial television broadcasting in the VHF/UHF bands
<a href="#">BT.799</a>	1998-02	In force	Interfaces for digital component video signals in 525-line and 625-line television systems operating at the 4:4:4 level of Recommendation ITU-R BT.601 (Part A)
<a href="#">BT.800</a>	1995-10	In force	User requirements for the transmission through contribution and primary distribution networks of digital television signals defined according to the 4:2:2 standard of Recommendation ITU-R BT.601 (Part A)
<a href="#">BT.801</a>	1995-10	In force	Test signals for digitally encoded colour television signals conforming with Recommendations ITU-R BT.601 (Part A) and ITU.R BT.656
<a href="#">BT.802</a>	1994-07	In force	Test pictures and sequences for subjective assessments of digital codecs conveying signals produced according to Recommendation ITU-R BT.601
<a href="#">BT.803</a>	1992-03	In force	The avoidance of interference generated by digital television studio equipment
<a href="#">BT.804</a>	1992-03	In force	Characteristics of TV receivers essential for frequency planning with PAL/SECAM/NTSC television systems
<a href="#">BT.805</a>	1992-03	In force	Assessment of impairment caused to television reception by a wind turbine

<a href="#">BT.806</a>	1992-03	In force	Common channel raster for the distribution of D-MAC, D2-MAC and HD-MAC signals in collective antenna and cable distribution systems
<a href="#">BT.807</a>	1992-03	In force	Reference model for data broadcasting
<a href="#">BT.808</a>	1992-03	In force	The broadcasting of time and date information in coded form
<a href="#">BT.809</a>	1992-03	In force	Programme delivery control (PDC) system for video recording
<a href="#">BT.810</a>	1992-03	In force	Conditional-access broadcasting systems
<a href="#">BT.811</a>	1994-07	In force	The subjective assessment of enhanced PAL and SECAM systems
<a href="#">BT.812</a>	1992-03	In force	Subjective assessment of the quality of alphanumeric and graphic pictures in Teletext and similar services
<a href="#">BT.813</a>	1992-03	In force	Methods for objective picture quality assessment in relation to impairments from digital coding of television signals
<a href="#">BT.814</a>	1994-07	In force	Specifications and alignment procedures for setting of brightness and contrast of displays
<a href="#">BT.815</a>	1994-07	In force	Specification of a signal for measurement of the contrast ratio of displays
<a href="#">BT.1117</a>	1997-10	In force	Studio format parameters for enhanced 16:9 aspect ratio 625-line television systems (D- and D2-MAC, PALplus, enhanced SECAM)
<a href="#">BT.1118</a>	1997-10	In force	Enhanced compatible widescreen television based on conventional television systems
<a href="#">BT.1119</a>	1998-02	In force	Wide-screen signalling for broadcasting (Signalling for wide-screen and other enhanced television parameters)
<a href="#">BT.1120</a>	2000-03	In force	Digital interfaces for HDTV studio signals
<a href="#">BT.1121</a>	1995-10	In force	User requirements for the transmission through contribution and primary distribution network of digital HDTV signals
<a href="#">BT.1122</a>	1995-10	In force	User requirements for emission and secondary distribution systems for SDTV, HDTV and hierarchical coding schemes
<a href="#">BT.1123</a>	1994-07	In force	Planning methods for 625-line terrestrial television in VHF/UHF bands
<a href="#">BT.1124</a>	2001-06	Pre-published	Draft revision of Recommendation ITU-R BT.1124-2 - Reference signals for ghost cancelling in analogue television systems - (Question ITU-R 55/11)
<a href="#">BT.1125</a>	1994-07	In force	Basic objectives for the planning and implementation of digital terrestrial television broadcasting systems
<a href="#">BT.1126</a>	1994-07	In force	Data transmission protocols and transmission control scheme for data broadcasting systems using a data channel in satellite television broadcasting
<a href="#">BT.1127</a>	1994-07	In force	Relative quality requirements of television broadcast systems
<a href="#">BT.1128</a>	1997-10	In force	Subjective assessment of conventional television systems
<a href="#">BT.1129</a>	1998-02	In force	Subjective assessment of standard definition digital television (SDTV) systems
<a href="#">BT.1197</a>	1998-02	In force	Enhanced wide-screen PAL TV transmission system (the PALplus system)
<a href="#">BT.1198</a>	1995-10	In force	Stereoscopic television based on R- and L-eye two channel signals
<a href="#">BT.1199</a>	1995-10	In force	Use of bit-rate reduction in the HDTV studio environment
<a href="#">BT.1200</a>	1998-02	Withdrawn	Target standard for digital video systems for the studio and for international programme exchange
<a href="#">BT.1201</a>	1995-10	In force	Extremely high resolution imagery
<a href="#">BT.1202</a>	1995-10	In force	Displays for future television systems
<a href="#">BT.1203</a>	1995-10	In force	User requirements for generic bit-rate reduction coding of digital TV signals (SDTV, EDTV and HDTV) for an end-to-end television system
<a href="#">BT.1204</a>	1995-10	In force	Measuring methods for digital video equipment with analogue input/output
<a href="#">BT.1205</a>	1995-10	In force	User requirements for the quality of baseband SDTV and HDTV signals when transmitted by digital satellite news gathering (SNG)
<a href="#">BT.1206</a>	1995-10	In force	Spectrum shaping limits for digital terrestrial television broadcasting
<a href="#">BT.1207</a>	1997-10	In force	Data access methods for digital terrestrial television broadcasting
<a href="#">BT.1208</a>	1997-10	In force	Video coding for digital terrestrial television broadcasting
<a href="#">BT.1209</a>	1997-10	In force	Service multiplex methods for digital terrestrial television broadcasting



<a href="#">BT.1210</a>	2000-10	In force	Test materials to be used in subjective assessment
<a href="#">BT.1298</a>	1997-10	In force	Enhanced wide-screen NTSC TV transmission system
<a href="#">BT.1299</a>	1997-10	In force	The basic elements of a worldwide common family of systems for digital terrestrial television broadcasting
<a href="#">BT.1300</a>	2000-03	In force	Service multiplex, transport, and identification methods for digital terrestrial television broadcasting
<a href="#">BT.1301</a>	1997-10	In force	Data services in digital terrestrial television broadcasting
<a href="#">BT.1302</a>	1997-10	In force	Interfaces for digital component video signals in 525-line and 625-line television systems operating at the 4:2:2 level of Recommendation ITU-R BT.601 (Part B)
<a href="#">BT.1303</a>	1997-10	In force	Interfaces for digital component video signals in 525-line and 625-line television systems operating at the 4:4:4 level of Recommendation ITU-R BT.601 (Part B)
<a href="#">BT.1304</a>	1997-10	In force	Checksum for error detection and status information in interfaces conforming with Recommendations ITU-R BT.656 and ITU-R BT.799
<a href="#">BT.1305</a>	1997-10	In force	Digital audio and auxiliary data as ancillary data signals in interfaces conforming to Recommendations ITU-R BT.656 and ITU-R BT.799
<a href="#">BT.1306</a>	2000-10	In force	Error-correction, data framing, modulation and emission methods for digital terrestrial television broadcasting
<a href="#">BT.1358</a>	1998-02	In force	Studio parameters of 625 and 525 line progressive scan television systems
<a href="#">BT.1359</a>	1998-11	In force	Relative timing of sound and vision for broadcasting
<a href="#">BT.1360</a>	1998-02	In force	Capture characteristics for high-definition images
<a href="#">BT.1361</a>	1998-02	In force	Worldwide unified colorimetry and related characteristics of future television and imaging systems
<a href="#">BT.1362</a>	1998-02	In force	Interfaces for digital component video signals in 525- and 625-line progressive scan television systems
<a href="#">BT.1363</a>	1998-11	In force	Jitter specifications and methods for jitter measurements of bit-serial signals conforming to Recommendations ITU-R BT.656, ITU-R BT.799 and ITU-R BT.1120
<a href="#">BT.1364</a>	1998-02	In force	Format of ancillary data signals carried in digital component studio interfaces
<a href="#">BT.1365</a>	1998-02	In force	24-bit digital audio format as ancillary data signals in HDTV serial interfaces
<a href="#">BT.1366</a>	1998-02	In force	Transmission of time code and control code in the ancillary data space of a digital television stream according to ITU-R BT.656, ITU-R BT.799 and ITU-R BT.1120
<a href="#">BT.1367</a>	1998-02	In force	Serial digital fibre transmission system for signals conforming to ITU-R BT.656, ITU-R BT.799 and ITU-R BT.1120
<a href="#">BT.1368</a>	2000-03	In force	Planning criteria for digital terrestrial television services in the VHF/UHF bands
<a href="#">BT.1369</a>	1998-02	In force	Basic principles for a worldwide common family of systems for the provision of interactive television services
<a href="#">BT.1377</a>	1998-11	In force	Labelling of video and audio apparatus throughput (processing) delay
<a href="#">BT.1378</a>	1998-11	In force	Basic requirements for multimedia-hypermedia broadcasting
<a href="#">BT.1379</a>	2001-04	In force	Safe areas of wide-screen 16:9 and standard 4:3 aspect ratio productions to achieve a common format during a transition period to wide-screen 16:9 broadcasting
<a href="#">BT.1380</a>	1998-11	In force	Standards for bit rate reduction coding systems for SDTV
<a href="#">BT.1381</a>	2001-04	In force	Serial digital interface-based transport interface for compressed television signals in networked television production based on Recommendations ITU-R BT.656 and ITU-R BT.1302
<a href="#">BT.1382</a>	1998-11	In force	Assessment of the picture quality of multi-programme services
<a href="#">BT.1434</a>	2000-03	In force	Network independent protocols for interactive systems
<a href="#">BT.1435</a>	2000-03	In force	Digital sound and television broadcasting interaction channel through the PSTN/ISDN
<a href="#">BT.1436</a>	2000-03	In force	Transmission systems for interactive cable television services
<a href="#">BT.1437</a>	2000-03	In force	User requirements for digital coding for multi-programme television transmission
<a href="#">BT.1438</a>	2000-03	In force	Subjective assessment of stereoscopic television pictures
<a href="#">BT.1439</a>	2000-03	In force	Measurement methods applicable in the analogue television studio and the overall

			analogue television system
<a href="#">BT.1507</a>	2000-10	In force	Interaction channel using digital enhanced cordless telecommunications (DECT) system
<a href="#">BT.1508</a>	2000-10	In force	Interaction channel using global system for mobile communications (GSM)
<a href="#">BT.1532</a>	2001-06	Pre-published	Draft new Recommendation ITU-R BT.[DOC. 6/101] - The MPEG-2 recoding data set for the preservation of picture quality in cascade of MPEG-2 codecs - (Question ITU-R 255/11)
<a href="#">BT.1533</a>	2001-06	Pre-published	Draft new Recommendation ITU-R BT.[DOC. 6/102] - Editing information for MPEG-2 video elementary streams for applications in television production - (Question ITU-R 255/11)
<a href="#">BT.1543</a>	2001-08	Pre-published	Draft new Recommendation ITU-R BT.[Doc. 6 /59] - 1 280×720, 16×9 progressively-captured image format for production and international programme exchange in the 60 Hz environment - (Question ITU-R 1/6)

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## ITU-R : Series F

**Fixed service**

<a href="#">F.106</a>	1999-05	In force	The use of diversity for voice-frequency telegraphy on HF radio circuits
<a href="#">F.162</a>	1992-03	In force	Use of directional transmitting antennas in the fixed service operating in bands below about 30 MHz
<a href="#">F.240</a>	1992-03	In force	Signal-to-interference protection ratios for various classes of emission in the fixed service below about 30 MHz
<a href="#">F.246</a>	1974-07	In force	Frequency-shift keying
<a href="#">F.268</a>	1970-07	In force	Interconnection at audio frequencies of radio-relay systems for telephony
<a href="#">F.270</a>	1978-07	In force	Interconnection at video signal frequencies of radio-relay systems for television
<a href="#">F.275</a>	1982-07	In force	Pre-emphasis characteristic for frequency modulation radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.276</a>	1974-07	In force	Frequency deviation and the sense of modulation for analogue radio-relay systems for television
<a href="#">F.283</a>	1990-06	In force	Radio-frequency channel arrangements for low and medium capacity analogue or digital radio-relay systems operating in the 2 GHz band
<a href="#">F.290</a>	1978-07	In force	Maintenance measurements on radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.302</a>	1997-05	In force	Limitation of interference from trans-horizon radio-relay systems
<a href="#">F.305</a>	1959-07	In force	Stand-by arrangements for radio-relay systems for television and telephony
<a href="#">F.306</a>	1959-07	In force	Procedure for the international connection of radio-relay systems with different characteristics
<a href="#">F.335</a>	1970-07	Withdrawn	Use of radio links in international telephone circuits
<a href="#">F.338</a>	1970-07	In force	Bandwidth required at the output of a telegraph or telephone receiver
<a href="#">F.339</a>	1986-07	In force	Bandwidths, signal-to-noise ratios and fading allowances in complete systems
<a href="#">F.342</a>	1970-07	In force	Automatic error-correcting system for telegraph signals transmitted over radio circuits
<a href="#">F.345</a>	1963-07	In force	Telegraph distortion
<a href="#">F.347</a>	1963-07	In force	Classification of multi-channel radiotelegraph systems for long-range circuits operating at frequencies below about 30 MHz and the designation of the channels in these systems
<a href="#">F.348</a>	1990-06	In force	Arrangement of channels in multi-channel single-sideband and independent-sideband transmitters for long-range circuits operating at frequencies below about 30 MHz
<a href="#">F.349</a>	1999-05	In force	Frequency stability required for systems operating in the HF fixed service to make the use of automatic frequency control superfluous
<a href="#">F.380</a>	1986-07	In force	Interconnection at baseband frequencies of radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.381</a>	1970-07	In force	Conditions relating to line regulating and other pilots and to limits for the residues of signals outside the baseband in the interconnection of radio-relay and line systems for telephony
<a href="#">F.382</a>	1997-09	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 2 and 4 GHz bands
<a href="#">F.383</a>	2001-05	Pre-published	Draft rev. of Rec. F.383-6 - Radio-frequency channel arrangements for high capacity radio-relay systems operating in the lower 6 GHz band - (Question ITU-R 136/9)
<a href="#">F.384</a>	1999-02	In force	Radio-frequency channel arrangements for medium and high capacity analogue or digital radio-relay systems operating in the upper 6 GHz band

<a href="#">F.385</a>	2001-05	Pre-published	Draft rev. of Rec. F.385-6 - Radio-frequency channel arrangements for radio-relay systems operating in the 7 GHz band - (Question ITU-R 136/9)
<a href="#">F.386</a>	1999-02	In force	Radio-frequency channel arrangements for medium and high capacity analogue or digital radio-relay systems operating in the 8 GHz band
<a href="#">F.387</a>	1999-02	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 11 GHz band
<a href="#">F.388</a>	1963-07	In force	Radio-frequency channel arrangements for trans-horizon radio-relay systems
<a href="#">F.389</a>	1974-07	In force	Preferred characteristics of auxiliary radio-relay systems operating in the 2, 4, 6 or 11 GHz bands
<a href="#">F.390</a>	1982-07	In force	Definitions of terms and references concerning hypothetical reference circuits and hypothetical reference digital paths for radio-relay systems
<a href="#">F.391</a>	1963-07	In force	Hypothetical reference circuit for radio-relay systems for telephony using frequency-division multiplex with a capacity of 12 to 60 telephone channels
<a href="#">F.392</a>	1963-07	In force	Hypothetical reference circuit for radio-relay systems for telephony using frequency-division multiplex with a capacity of more than 60 telephone channels
<a href="#">F.393</a>	1982-07	In force	Allowable noise power in the hypothetical reference circuit for radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.395</a>	1978-07	In force	Noise in the radio portion of circuits to be established over real radio-relay links for FDM telephony
<a href="#">F.396</a>	1966-07	In force	Hypothetical reference circuit for trans-horizon radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.397</a>	1978-07	In force	Allowable noise power in the hypothetical reference circuit of trans-horizon radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.398</a>	1974-07	In force	Measurements of noise in actual traffic over radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.399</a>	1978-07	In force	Measurement of noise using a continuous uniform spectrum signal on frequency-division multiplex telephony radio-relay systems
<a href="#">F.400</a>	1970-07	In force	Service channels to be provided for the operation and maintenance of radio-relay systems
<a href="#">F.401</a>	1970-07	In force	Frequencies and deviations of continuity pilots for frequency modulation radio-relay systems for television and telephony
<a href="#">F.402</a>	1978-07	In force	The preferred characteristics of a single sound channel simultaneously transmitted with a television signal on an analogue radio-relay system
<a href="#">F.403</a>	1978-07	In force	Intermediate-frequency characteristics for the interconnection of analogue radio-relay systems
<a href="#">F.404</a>	1970-07	In force	Frequency deviation for analogue radio-relay systems for telephony using frequency-division multiplex
<a href="#">F.405</a>	1970-07	In force	Pre-emphasis characteristics for frequency modulation radio-relay systems for television
<a href="#">F.436</a>	1999-05	In force	Arrangement of voice-frequency, frequency-shift telegraph channels over HF radio circuits
<a href="#">F.444</a>	1982-07	In force	Preferred characteristics for multi-line switching arrangements of analogue radio-relay systems
<a href="#">F.454</a>	1978-07	In force	Pilot carrier level for HF single-sideband and independent-sideband reduced-carrier systems
<a href="#">F.455</a>	1992-03	Withdrawn	Improved transmission system for HF radiotelephone circuits
<a href="#">F.463</a>	1978-07	In force	Limits for the residues of signals outside the baseband of radio-relay systems for television
<a href="#">F.480</a>	1974-07	Withdrawn	Semi-automatic operation on HF radiotelephone circuits. Devices for remote connection to an automatic exchange by radiotelephone circuits
<a href="#">F.497</a>	1999-02	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 13 GHz frequency band
<a href="#">F.518</a>	1994-09	In force	Single-channel simplex ARQ telegraph system

<a href="#">F.519</a>	1978-07	In force	Single-channel duplex ARQ telegraph system
<a href="#">F.520</a>	1992-03	Withdrawn	Use of high frequency ionospheric channel simulators
<a href="#">F.555</a>	1997-05	In force	Permissible noise in the hypothetical reference circuit of radio-relay systems for television
<a href="#">F.556</a>	1986-07	In force	Hypothetical reference digital path for radio-relay systems which may form part of an integrated services digital network with a capacity above the second hierarchical level
<a href="#">F.557</a>	1997-09	In force	Availability objective for radio-relay systems over a hypothetical reference circuit and a hypothetical reference digital path
<a href="#">F.592</a>	1990-06	In force	Terminology used for radio-relay systems
<a href="#">F.593</a>	1982-07	In force	Noise in real circuits of multi-channel trans-horizon FM radio-relay systems of less than 2 500 km
<a href="#">F.594</a>	1997-09	In force	Error performance objectives of the hypothetical reference digital path for radio-relay systems providing connections at a bit rate below the primary rate and forming part or all of the high grade portion of an integrated services digital network
<a href="#">F.595</a>	1999-02	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 18 GHz frequency band
<a href="#">F.596</a>	1994-09	In force	Interconnection of digital radio-relay systems
<a href="#">F.612</a>	1986-07	In force	Measurement of reciprocal mixing in HF communication receivers in the fixed service
<a href="#">F.613</a>	1986-07	In force	The use of ionospheric channel sounding systems operating in the fixed service at frequencies below about 30 MHz
<a href="#">F.634</a>	1997-09	In force	Error performance objectives for real digital radio-relay links forming part of the high-grade portion of international digital connections at a bit rate below the primary rate within an integrated services digital network
<a href="#">F.635</a>	2001-05	Pre-published	Draft rev. of Rec. F.635-5 - Radio-frequency channel arrangements based on a homogeneous pattern for radio-relay systems operating in the 4 GHz band - (Question UIT-R 136/9)
<a href="#">F.636</a>	1994-09	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 15 GHz band
<a href="#">F.637</a>	1999-02	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 23 GHz band
<a href="#">F.695</a>	1990-06	In force	Availability objectives for real digital radio-relay links forming part of a high-grade circuit within an integrated services digital network
<a href="#">F.696</a>	1997-09	In force	Error performance and availability objectives for hypothetical reference digital sections forming part or all of the medium-grade portion of an ISDN connection at a bit rate below the primary rate utilizing digital radio-relay systems
<a href="#">F.697</a>	1997-09	In force	Error performance and availability objectives for the local-grade portion at each end of an ISDN connection at a bit rate below the primary rate utilizing digital radio-relay systems
<a href="#">F.698</a>	1994-09	In force	Preferred frequency bands for trans-horizon radio-relay systems
<a href="#">F.699</a>	2000-05	In force	Reference radiation patterns for line-of-sight radio-relay system antennas for use in coordination studies and interference assessment in the frequency range from 1 GHz to about 70 GHz
<a href="#">F.700</a>	1994-09	In force	Error performance and availability measurement algorithm for digital radio-relay links at the system bit-rate interface
<a href="#">F.701</a>	1997-09	In force	Radio-frequency channel arrangements for analogue and digital point-to-multipoint radio systems operating in frequency bands in the range 1.350 to 2.690 GHz (1.5, 1.8, 2.0, 2.2, 2.4 and 2.6 GHz)
<a href="#">F.745</a>	1991-01	In force	CCIR Recommendations for analogue radio-relay systems
<a href="#">F.746</a>	2001-05	Pre-published	Draft rev. of Rec. F.746-4 - Radio-frequency channel arrangements for radio-relay systems - (Questions ITU-R 108/9 and ITU-R 136/9)
<a href="#">F.747</a>	1992-03	In force	Radio-frequency channel arrangements for radio-relay systems operating in the 10 GHz band
<a href="#">F.748</a>	2001-05	Pre-	Draft rev. of Rec. F.748-3 - Radio-frequency channel arrangements for radio-relay

		published	systems operating in the 25, 26 and 28 GHz bands - (Question ITU-R 108/9)
<a href="#">F.749</a>	2001-05	Pre-published	Draft rev. of Rec. F.749-1 - Radio-frequency channel arrangements for radio-relay systems in the 38 GHz band - (Questions ITU-R 108/9 and ITU-R 229/9)
<a href="#">F.750</a>	2000-05	In force	Architectures and functional aspects of radio-relay systems for synchronous digital hierarchy (SDH)-based network
<a href="#">F.751</a>	1997-09	In force	Transmission characteristics and performance requirements of radio-relay systems for SDH-based networks
<a href="#">F.752</a>	1994-09	In force	Diversity techniques for radio-relay systems
<a href="#">F.753</a>	1992-03	In force	Preferred methods and characteristics for the supervision and protection of digital radio-relay systems
<a href="#">F.754</a>	1992-03	In force	Radio-relay systems in bands 8 and 9 for the provision of telephone trunk connections in rural areas
<a href="#">F.755</a>	1999-05	In force	Point-to-multipoint systems used in the fixed service
<a href="#">F.756</a>	1992-03	In force	TDMA point-to-multipoint systems used as radio concentrators
<a href="#">F.757</a>	1999-05	In force	Basic system requirements and performance objectives for fixed wireless access using mobile-derived technologies offering basic telephony services
<a href="#">F.758</a>	2000-05	In force	Considerations in the development of criteria for sharing between the terrestrial fixed service and other services
<a href="#">F.759</a>	1992-03	In force	The use of frequencies in the band 500 to 3 000 MHz for radio-relay systems
<a href="#">F.760</a>	1994-09	In force	Protection of terrestrial line-of-sight radio-relay systems against interference from the broadcasting-satellite service in the bands near 20 GHz
<a href="#">F.761</a>	1992-03	In force	Frequency sharing between the fixed service and passive sensors in the band 18.6 to 18.8 GHz
<a href="#">F.762</a>	1995-10	In force	Main characteristics of remote control and monitoring systems for HF receiving and transmitting stations
<a href="#">F.763</a>	1999-05	In force	Data transmission over HF circuits using phase shift keying or quadrature amplitude modulation
<a href="#">F.764</a>	1994-09	In force	Minimum requirements for HF radio systems using a packet transmission protocol
<a href="#">F.1092</a>	1997-09	In force	Error performance objectives for constant bit rate digital path at or above the primary rate carried by digital radio-relay systems which may form part of the international portion of a 27 500 km hypothetical reference path
<a href="#">F.1093</a>	1997-09	In force	Effects of multipath propagation on the design and operation of line-of-sight digital radio-relay systems
<a href="#">F.1094</a>	1995-10	In force	Maximum allowable error performance and availability degradations to digital radio-relay systems arising from interference from emissions and radiations from other sources
<a href="#">F.1095</a>	1994-09	In force	A procedure for determining coordination area between radio-relay stations of the fixed service
<a href="#">F.1096</a>	1994-09	In force	Methods of calculating line-of-sight interference into radio-relay systems to account for terrain scattering
<a href="#">F.1097</a>	2000-05	In force	Interference mitigation options to enhance compatibility between radar systems and digital radio-relay systems
<a href="#">F.1098</a>	1995-10	In force	Radio-frequency channel arrangements for radio-relay systems in the 1 900-2 300 MHz band
<a href="#">F.1099</a>	1999-02	In force	Radio-frequency channel arrangements for high-capacity digital radio-relay systems in the 5 GHz (4 400-5 000 MHz) band
<a href="#">F.1100</a>	1994-09	Withdrawn	Radio-frequency channel arrangements for radio-relay systems operating in the 55 GHz band
<a href="#">F.1101</a>	1994-09	In force	Characteristics of digital radio-relay systems below about 17 GHz
<a href="#">F.1102</a>	1994-09	In force	Characteristics of radio-relay systems operating in frequency bands above about 17 GHz
<a href="#">F.1103</a>	1994-09	In force	Radio-relay systems operating in bands 8 and 9 for the provision of subscriber telephone connections in rural areas



<a href="#">F.1104</a>	1994-09	In force	Requirements for point-to-multipoint radio systems used in the local grade portion of an ISDN connection
<a href="#">F.1105</a>	1994-09	In force	Transportable fixed radiocommunications equipment for relief operations
<a href="#">F.1106</a>	1994-09	In force	Effects of propagation on the design and operation of trans-horizon radio-relay systems
<a href="#">F.1107</a>	1994-09	In force	Probabilistic analysis for calculating interference into the fixed service from satellites occupying the geostationary orbit
<a href="#">F.1108</a>	1997-09	In force	Determination of the criteria to protect fixed service receivers from the emissions of space stations operating in non-geostationary orbits in shared frequency bands
<a href="#">F.1109</a>	1994-09	Withdrawn	ITU-Recommendations relating to systems in the fixed service operating at frequencies below about 30 MHz which are not reprinted
<a href="#">F.1110</a>	1997-09	In force	Adaptive radio systems for frequencies below about 30 MHz
<a href="#">F.1111</a>	1995-10	In force	Improved Lincompex system for HF radiotelephone circuits
<a href="#">F.1112</a>	1995-10	In force	Digitized speech transmissions for systems operating below about 30 MHz
<a href="#">F.1113</a>	1994-09	In force	Radio systems employing meteor-burst propagation
<a href="#">F.1189</a>	1997-09	In force	Error performance objectives for constant bit rate digital paths at or above the primary rate carried by digital radio-relay systems which may form part or all of the national portion of a 27 500 km hypothetical reference path
<a href="#">F.1190</a>	1995-10	In force	Protection criteria for digital radio-relay systems to ensure compatibility with radar systems in the radiodetermination service
<a href="#">F.1191</a>	2001-05	Pre-published	Draft rev. of Rec. F.1191-1 - Bandwidths and unwanted emissions of digital radio-relay systems - (Question ITU-R 119/9)
<a href="#">F.1192</a>	1995-10	In force	Traffic capacity of automatically controlled radio systems and networks in the HF fixed service
<a href="#">F.1241</a>	1997-05	In force	Performance degradation due to interference from other services sharing the same frequency bands on a primary basis with digital radio-relay systems operating at or above the primary rate and which may form part of the international portion of a 27 500 km hypothetical reference path
<a href="#">F.1242</a>	1997-05	In force	Radio-frequency channel arrangements for digital radio systems operating in the range 1 350 MHz to 1 530 MHz
<a href="#">F.1243</a>	1997-05	In force	Radio-frequency channel arrangements for digital radio systems operating in the range 2 290-2 670 MHz
<a href="#">F.1244</a>	1997-05	In force	Radio local area networks (RLANs)
<a href="#">F.1245</a>	2000-05	In force	Mathematical model of average radiation patterns for line-of-sight point-to-point radio-relay system antennas for use in certain coordination studies and interference assessment in the frequency range from 1 to about 70 GHz
<a href="#">F.1246</a>	1997-05	In force	Reference bandwidth of receiving stations in the fixed service to be used in coordination of frequency assignments with transmitting space stations in the mobile-satellite service in the 1-3 GHz range
<a href="#">F.1247</a>	2000-05	In force	Technical and operational characteristics of systems in the fixed service to facilitate sharing with the space research, space operation and Earth exploration-satellite services operating in the bands 2 025-2 110 MHz and 2 200-2 290 MHz
<a href="#">F.1248</a>	1997-05	In force	Limiting interference to satellites in the space science services from the emissions of trans-horizon radio-relay systems in the bands 2 025-2 110 MHz and 2 200-2 290 MHz
<a href="#">F.1249</a>	2000-05	In force	Maximum equivalent isotropically radiated power of transmitting stations in the fixed service operating in the frequency band 25.25-27.5 GHz shared with the inter-satellite service
<a href="#">F.1330</a>	1999-05	In force	Performance limits for bringing into service of the parts of international plesiochronous digital hierarchy and synchronous digital hierarchy paths and sections implemented by digital radio-relay systems
<a href="#">F.1331</a>	1997-09	In force	Performance degradation due to interference from other services sharing the same frequency bands on a primary basis with analogue radio-relay systems for television
<a href="#">F.1332</a>	1999-05	In force	Radio-frequency signal transport through optical fibres

<a href="#">F.1333</a>	1999-05	In force	Estimation of the actual elevation angle from a station in the fixed service towards a space station taking into account atmospheric refraction
<a href="#">F.1334</a>	1997-09	In force	Protection criteria for systems in the fixed service sharing the same frequency bands in the 1 to 3 GHz range with the land mobile service
<a href="#">F.1335</a>	1997-09	In force	Technical and operational considerations in the phased transitional approach for bands shared between the mobile-satellite service and the fixed service at 2 GHz
<a href="#">F.1336</a>	2000-05	In force	Reference radiation patterns of omnidirectional, sectoral and other antennas in point-to-multipoint systems for use in sharing studies in the frequency range from 1 to about 70 GHz
<a href="#">F.1337</a>	1997-09	In force	Frequency management of adaptive HF radio systems and networks using FMCW oblique-incidence sounding
<a href="#">F.1338</a>	1997-10	In force	Threshold levels to determine the need to coordinate between particular systems in the broadcasting-satellite service (sound) in the geostationary-satellite orbit for space-to-Earth transmissions and the fixed service in the band 1 452-1 492 MHz
<a href="#">F.1397</a>	2001-05	Pre-published	Draft rev. of Rec. F.1397 - Error performance objectives for real digital radio links used in the international portion of a 27 500 km hypothetical reference path at or above the primary rate - (Question UIT-R 210/9)
<a href="#">F.1398</a>	1999-05	In force	Performance degradation due to interference from other services sharing the same frequency bands on a primary basis with digital radio-relay systems operating at or above the primary rate and which may form part of the national portion of a 27 500 km hypothetical reference path
<a href="#">F.1399</a>	2001-05	Pre-published	Draft rev. of Rec. F.1399 - Vocabulary of terms for wireless access - (Questions ITU-R 215/8 and ITU-R 140/9)
<a href="#">F.1400</a>	1999-05	In force	Performance and availability requirements and objectives for fixed wireless access to public switched telephone network
<a href="#">F.1401</a>	1999-05	In force	Frequency bands for fixed wireless access systems and the identification methodology
<a href="#">F.1402</a>	1999-05	In force	Frequency sharing criteria between a land mobile wireless access system and a fixed wireless access system using the same equipment type as the mobile wireless access system
<a href="#">F.1403</a>	1999-05	In force	Power flux-density criteria in ITU-R Recommendations for protection of systems in the fixed service shared with space stations of various space services
<a href="#">F.1404</a>	1999-05	In force	Minimum propagation attenuation due to atmospheric gases for use in frequency sharing studies between systems in the fixed service and systems in the broadcasting-satellite, mobile-satellite and space science services
<a href="#">F.1405</a>	1999-05	In force	Guidance to facilitate coordination and use of frequency bands shared between the fixed service and mobile-satellite service in the frequency range 1-3 GHz
<a href="#">F.1487</a>	2000-05	In force	Testing of HF modems with bandwidths of up to about 12 kHz using ionospheric channel simulators
<a href="#">F.1488</a>	2000-05	In force	Frequency block arrangements for fixed wireless access (FWA) systems in the range 3 400-3 800 MHz
<a href="#">F.1489</a>	2000-05	In force	A methodology for assessing the level of operational compatibility between fixed wireless access and radiolocation systems when sharing the band 3.4-3.7 GHz
<a href="#">F.1490</a>	2000-05	In force	Generic requirements for fixed wireless access systems
<a href="#">F.1491</a>	2001-05	Pre-published	Draft rev. of Rec. F.1491 - Error performance objectives for real digital radio links used in the national portion of a 27 500 km hypothetical reference path at or above the primary rate - (Question UIT-R 210/9)
<a href="#">F.1492</a>	2000-05	In force	Availability objectives for real digital radio-relay links forming part of international portion constant bit rate digital path at or above the primary rate
<a href="#">F.1493</a>	2000-05	In force	Availability objectives for real digital radio-relay links forming part of national portion constant bit rate digital path at or above the primary rate
<a href="#">F.1494</a>	2000-05	In force	Interference criteria to protect the fixed service from time varying aggregate interference from other services sharing the 10.7-12.75 GHz band on a co-primary basis
<a href="#">F.1495</a>	2000-05	In force	Interference criteria to protect the fixed service from time varying aggregate interference

from other services sharing the 17.7-19.3 GHz band on a co-primary basis

<a href="#">F.1496</a>	2000-05	In force	Radio-frequency channel arrangement for radio-relay systems in the fixed service operating in the band 51.4-52.6 GHz
<a href="#">F.1497</a>	2000-05	In force	Radio-frequency channel arrangements for systems in the fixed service operating in the band 55.78-59 GHz
<a href="#">F.1498</a>	2000-05	In force	Deployment characteristics of fixed service systems in the band 37-40 GHz for use in sharing studies
<a href="#">F.1499</a>	2000-05	In force	Radio transmission systems for fixed broadband wireless access based on cable modem standard
<a href="#">F.1500</a>	2000-05	In force	Preferred characteristics of systems in the fixed service using high altitude platforms operating in the bands 47.2-47.5 GHz and 47.9-48.2 GHz
<a href="#">F.1501</a>	2000-05	In force	Coordination distance for systems in the fixed service (FS) involving high-altitude platform stations (HAPSS) sharing the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz with other systems in the fixed service
<a href="#">F.1502</a>	2000-05	In force	Protection of the fixed service in the frequency band 8 025-8 400 MHz sharing with geostationary-satellite systems of the Earth exploration-satellite service (space-to-Earth)
<a href="#">F.1509</a>	2001-02	In force	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
<a href="#">F.1518</a>	2001-05	Pre-published	Draft new Rec. F.[DOC 9/4] - Spectrum requirement methodology for fixed wireless access (FWA) and mobile wireless access (MWA) networks using the same type of equipment, when coexisting in the same frequency band - (Questions ITU-R 215/8 and ITU-R 140/9)
<a href="#">F.1519</a>	2001-05	Pre-published	Draft new Rec. F.[DOC 9/13] - Guidance on frequency arrangements based on frequency blocks for systems in the fixed service - (Questions ITU-R 215/8, 125/9, 136/9, 108/9 and 229/9)
<a href="#">F.1520</a>	2001-05	Pre-published	Draft new Rec. F.[DOC 9/11] - Radio-frequency Channel arrangements for systems in the fixed service operating in the band 31.8-33.4 GHz - (Questions ITU-R 108/9 and ITU-R 229/9)



## Inter-service sharing and compatibility

<a href="#">IS.847</a>	1993-04	Withdrawn	Determination of the coordination area of an earth station operating with a geostationary space station and using the same frequency band as a system in a terrestrial service
<a href="#">IS.848</a>	1993-04	Withdrawn	Determination of the coordination area of a transmitting earth station using the same frequency band as receiving earth stations in bidirectionally allocated frequency bands
<a href="#">IS.849</a>	1993-04	Withdrawn	Determination of the coordination area for earth stations operating with non-geostationary spacecraft in bands shared with terrestrial services
<a href="#">IS.850</a>	1995-10	Withdrawn	Coordination areas using predetermined coordination distances

**Mobile, radiodetermination, amateur and related satellite services**

<a href="#">M.218</a>	1990-06	In force	Prevention of interference to radio reception on board ships
<a href="#">M.219</a>	1966-07	In force	Alarm signal for use on the maritime radiotelephony distress frequency of 2 182 kHz
<a href="#">M.257</a>	1995-10	In force	Sequential Single Frequency selective-calling system for use in the maritime mobile service
<a href="#">M.428</a>	1990-06	In force	Direction-finding and/or homing in the 2 MHz band on board ships
<a href="#">M.441</a>	1982-07	In force	Signal-to-interference ratios and minimum field strengths required in the aeronautical mobile (R) service above 30 MHz
<a href="#">M.476</a>	1995-10	In force	Direct-printing telegraph equipment in the maritime mobile service
<a href="#">M.478</a>	1995-10	In force	Technical characteristics of equipment and principles governing the allocation of frequency channels between 25 and 3 000 MHz for the FM land mobile service
<a href="#">M.488</a>	1990-06	In force	Equivalent powers of double-sideband and single-sideband radiotelephone emissions in the maritime mobile service
<a href="#">M.489</a>	1995-10	In force	Technical characteristics of VHF radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz
<a href="#">M.490</a>	1974-07	In force	The introduction of direct-printing telegraph equipment in the maritime mobile service. Equivalence of terms
<a href="#">M.491</a>	1986-07	In force	Translation between an identity number and identities for direct-printing telegraphy in the maritime mobile service
<a href="#">M.492</a>	1995-10	In force	Operational procedures for the use of direct-printing telegraph equipment in the maritime mobile service
<a href="#">M.493</a>	2000-05	In force	Digital selective-calling system for use in the maritime mobile service
<a href="#">M.494</a>	1974-07	Withdrawn	Technical characteristics of single-sideband equipment in the MF and HF land mobile radiotelephone service
<a href="#">M.496</a>	1992-03	In force	Limits of power flux-density of radionavigation transmitters to protect space station receivers in the fixed-satellite service in the 14 GHz band
<a href="#">M.539</a>	1994-09	In force	Technical and operational characteristics of international radio-paging systems
<a href="#">M.540</a>	1990-06	In force	Operational and technical characteristics for an automated direct-printing telegraph system for promulgation of navigational and meteorological warnings and urgent information to ships
<a href="#">M.541</a>	1997-10	In force	Operational procedures for the use of digital selective-calling equipment in the maritime mobile service
<a href="#">M.542</a>	1982-07	In force	On-board communications by means of portable radiotelephone equipment
<a href="#">M.546</a>	1990-06	In force	Hypothetical telephone reference circuit in the aeronautical, land and maritime mobile-satellite services
<a href="#">M.547</a>	1978-07	In force	Noise objectives in the hypothetical reference circuit for systems in the maritime mobile-satellite service
<a href="#">M.548</a>	1978-07	In force	Overall transmission characteristics of telephone circuits in the maritime mobile-satellite service
<a href="#">M.549</a>	1982-07	In force	Side tone reference equivalent of handset used on board a ship in the maritime mobile-satellite service and in automated VHF/UHF maritime mobile radiotelephone systems
<a href="#">M.550</a>	1986-07	In force	Use of echo suppressors in the maritime mobile-satellite service
<a href="#">M.552</a>	1978-07	In force	Quality objectives for 50-baud start-stop telegraph transmission in the maritime mobile-satellite service

<a href="#">M.553</a>	1978-07	In force	Interface requirements for 50-baud start-stop telegraph transmission in the maritime mobile-satellite service
<a href="#">M.584</a>	1997-11	In force	Codes and formats for radio paging
<a href="#">M.585</a>	1990-06	In force	Assignment and use of maritime mobile service identities
<a href="#">M.586</a>	1986-07	In force	Automated VHF/UHF maritime mobile telephone system
<a href="#">M.587</a>	1986-07	In force	Coast station identities and initiation of location registration in an automated VHF/UHF maritime mobile telephone system
<a href="#">M.588</a>	1982-07	In force	Characteristics of maritime radio beacons (Region 1)
<a href="#">M.589</a>	2001-08	Pre-published	Draft revision of Recommendation ITU-R M.589-2 - Technical characteristics of methods of data transmission and interference protection for radionavigation services in the frequency bands between 70 and 130 kHz
<a href="#">M.622</a>	1986-07	In force	Technical and operational characteristics of analogue cellular systems for public land mobile telephone use
<a href="#">M.623</a>	1986-07	In force	Data transmission bit rates and modulation techniques in the land mobile service
<a href="#">M.624</a>	1986-07	In force	Public land mobile communication systems location registration
<a href="#">M.625</a>	1995-10	In force	Direct-printing telegraph equipment employing automatic identification in the maritime mobile service
<a href="#">M.626</a>	1986-07	In force	Evaluation of the quality of digital channels in the maritime mobile service
<a href="#">M.627</a>	1995-10	In force	Technical characteristics for HF maritime radio equipment using narrow-band phase-shift keying (NBPSK) telegraphy
<a href="#">M.628</a>	1994-09	In force	Technical characteristics for search and rescue radar transponders
<a href="#">M.629</a>	1986-07	In force	Use of the radionavigation service of the frequency bands 2 900-3 100 MHz, 5 470-5 650 MHz, 9 200-9 300 MHz, 9 300-9 500 MHz and 9 500-9 800 MHz
<a href="#">M.630</a>	1986-07	In force	Main characteristics of two frequency shipborne interrogator transponders (SIT)
<a href="#">M.631</a>	1992-03	In force	Use of hyperbolic maritime radionavigation systems in the band 283.5-315 kHz
<a href="#">M.632</a>	1997-02	In force	Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) system operating through geostationary satellites in the 1.6 GHz band
<a href="#">M.633</a>	2000-05	In force	Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) system operating through a low polar-orbiting satellite system in the 406 MHz band
<a href="#">M.687</a>	1997-02	In force	International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.688</a>	1990-06	In force	Technical characteristics for a high frequency direct-printing telegraph system for promulgation of high seas and NAVTEX-type maritime safety information
<a href="#">M.689</a>	1994-09	In force	International maritime VHF radiotelephone system with automatic facilities based on DSC signalling format
<a href="#">M.690</a>	1995-10	In force	Technical characteristics of emergency position-indicating radio beacons (EPIRBs) operating on the carrier frequencies of 121.5 MHz and 243 MHz
<a href="#">M.691</a>	1992-03	In force	Technical characteristics and compatibility criteria of maritime radiolocation systems operating in the medium frequency band and using spread-spectrum techniques
<a href="#">M.692</a>	1990-06	In force	Narrow-band direct-printing telegraph equipment using a single-frequency channel
<a href="#">M.693</a>	1990-06	In force	Technical characteristics of VHF emergency position-indicating radio beacons using digital selective calling (DSC VHF EPIRB)
<a href="#">M.694</a>	1990-06	In force	Reference radiation pattern for ship earth station antennas
<a href="#">M.816</a>	1997-10	In force	Framework for services supported on International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.817</a>	1992-03	In force	International Mobile Telecommunications-2000 (IMT-2000). Network architectures
<a href="#">M.818</a>	1994-09	In force	Satellite operation within International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.819</a>	1997-02	In force	International Mobile Telecommunications-2000 (IMT-2000) for developing countries
<a href="#">M.820</a>	1992-03	In force	Use of 9-digit identities for narrow-band direct-printing telegraphy in the maritime mobile service



<a href="#">M.821</a>	1997-02	In force	Optional expansion of the digital selective-calling system for use in the maritime mobile service
<a href="#">M.822</a>	1994-09	In force	Calling-channel loading for digital selective calling (DSC) for the maritime mobile service
<a href="#">M.823</a>	1997-10	In force	Technical characteristics of differential transmissions for Global Navigation Satellite Systems from maritime radio beacons in the frequency band 283.5-315 kHz in Region 1 and 285-325 kHz in Regions 2 and 3
<a href="#">M.824</a>	1995-10	In force	Technical parameters of radar beacons (RACONS)
<a href="#">M.825</a>	1998-10	In force	Characteristics of a transponder system using digital selective calling techniques for use with vessel traffic services and ship-to-ship identification
<a href="#">M.826</a>	1992-03	In force	Transmission of information for updating electronic chart display and information systems (ECDIS)
<a href="#">M.827</a>	1992-03	In force	Hypothetical reference digital path for systems in the mobile-satellite service using feeder links
<a href="#">M.828</a>	1994-09	In force	Definition of availability for communication circuits in the mobile-satellite service (MSS)
<a href="#">M.829</a>	1994-09	Withdrawn	Frequency sharing in the 1660-1660.5 MHz band between the mobile-satellite service and the radioastronomy service
<a href="#">M.830</a>	1992-03	In force	Operational procedures for mobile-satellite networks or systems in the bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz which are used for distress and safety purposes as specified for GMDSS
<a href="#">M.831</a>	1992-03	In force	Frequency sharing between services in the band 4-30 MHz
<a href="#">M.1032</a>	1994-03	In force	Technical and operational characteristics of land mobile systems using multi-channel access techniques without a central controller
<a href="#">M.1033</a>	1997-02	In force	Technical and operational characteristics of cordless telephones and cordless telecommunication systems
<a href="#">M.1034</a>	1997-02	In force	Requirements for the radio interface(s) for International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1035</a>	1994-03	In force	Framework for the radio interface(s) and radio sub-system functionality for International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1036</a>	1999-01	In force	Spectrum considerations for implementation of International Mobile Telecommunications-2000 (IMT-2000) in the bands 1 885-2 025 MHz and 2 110-2 200 MHz
<a href="#">M.1037</a>	1994-03	In force	Bit error performance objectives for aeronautical mobile-satellite (R) service (AMS(R)S) radio link
<a href="#">M.1038</a>	1994-03	In force	Efficient use of the geostationary-satellite orbit and spectrum in the 1-3 GHz frequency range by mobile-satellite systems
<a href="#">M.1039</a>	2000-05	In force	Co-frequency sharing between stations in the mobile service below 1 GHz and mobile earth stations of non-geostationary mobile- satellite systems (Earth-space) using frequency division multiple access
<a href="#">M.1040</a>	1994-03	In force	Public mobile telecommunication service with aircraft using the bands 1 670-1 675 MHz and 1 800-1 805 MHz
<a href="#">M.1041</a>	1998-10	In force	Future amateur radio systems (FARS)
<a href="#">M.1042</a>	1998-10	In force	Disaster communications in the amateur and amateur-satellite services
<a href="#">M.1043</a>	1998-10	In force	Use of the amateur and amateur-satellite services in developing countries
<a href="#">M.1044</a>	1998-10	In force	Frequency sharing criteria in the amateur and amateur-satellite services
<a href="#">M.1072</a>	1994-09	In force	Interference due to intermodulation products in the land mobile service between 25 and 3 000 MHz
<a href="#">M.1073</a>	1997-02	In force	Digital cellular land mobile telecommunication systems
<a href="#">M.1074</a>	1994-09	In force	Integration of public mobile radiocommunication systems
<a href="#">M.1075</a>	1994-09	In force	Leaky feeder systems in the land mobile services

<a href="#">M.1076</a>	1994-09	In force	Wireless communication systems for persons with impaired hearing
<a href="#">M.1077</a>	1994-09	In force	Multi-transmitter radio systems using quasi-synchronous (simulcast) transmission for analogue speech
<a href="#">M.1078</a>	1994-09	In force	Security principles for International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1079</a>	2000-05	In force	Performance and quality of service requirements for International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1080</a>	1994-09	In force	Digital selective calling system enhancement for multiple equipment installations
<a href="#">M.1081</a>	1994-09	In force	Automatic HF facsimile and data system for maritime mobile users
<a href="#">M.1082</a>	1997-10	In force	International maritime MF/HF radiotelephone system with automatic facilities based on DSC signalling format
<a href="#">M.1083</a>	1994-09	In force	Interworking of maritime radiotelephone systems
<a href="#">M.1084</a>	2001-08	Pre-published	Draft revision of Recommendation ITU-R M.1084-3 - Interim solutions for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service - (Question ITU-R 96/8)
<a href="#">M.1085</a>	1997-02	In force	Technical and operational characteristics of wind profiler radars for bands in the vicinity of 400 MHz
<a href="#">M.1086</a>	1994-09	In force	Determination of the need for coordination between geostationary mobile satellite networks sharing the same frequency bands
<a href="#">M.1087</a>	1994-09	In force	Methods for evaluating sharing between systems in the land mobile service and spread-spectrum low-Earth orbit (LEO) systems in the mobile-satellite service (MSS) below 1 GHz
<a href="#">M.1088</a>	1994-09	In force	Considerations for sharing with systems of other services operating in the bands allocated to the radionavigation satellite service
<a href="#">M.1089</a>	1994-09	In force	Technical considerations for the coordination of mobile-satellite systems supporting the aeronautical mobile-satellite (R) service (AMS(R)S)
<a href="#">M.1090</a>	1994-09	In force	Frequency plans for satellite transmission of single channel per carrier (SCPC) carriers using non-linear transponders in the mobile-satellite service
<a href="#">M.1091</a>	1994-09	In force	Reference off-axis radiation patterns for mobile earth station antennas operating in the land mobile-satellite service in the frequency range 1 to 3 GHz
<a href="#">M.1141</a>	1997-10	In force	Sharing in the 1-3 GHz frequency range between non-geostationary space stations operating in the mobile-satellite service and the fixed service
<a href="#">M.1142</a>	1997-10	In force	Sharing in the 1-3 GHz frequency range between geostationary space stations operating in the mobile-satellite service and the fixed service
<a href="#">M.1143</a>	1997-10	In force	System specific methodology for coordination of non-geostationary space stations (space-to-Earth) operating in the mobile-satellite service with the fixed service
<a href="#">M.1167</a>	1995-10	In force	Framework for the satellite component of International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1168</a>	1995-10	In force	Framework of International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1169</a>	1995-10	In force	Hours of service of ship stations
<a href="#">M.1170</a>	1995-10	In force	Morse telegraphy procedures in the maritime mobile service
<a href="#">M.1171</a>	1995-10	In force	Radiotelephony procedures in the maritime mobile service
<a href="#">M.1172</a>	1995-10	In force	Miscellaneous abbreviations and signals to be used for radiocommunications in the maritime mobile service
<a href="#">M.1173</a>	1995-10	In force	Technical characteristics of single-sideband transmitters used in the maritime mobile service for radiotelephony in the bands between 1 606.5 kHz (1 605 kHz Region 2) and 4 000 kHz and between 4 000 kHz and 27 500 kHz
<a href="#">M.1174</a>	1998-10	In force	Technical characteristics of equipment used for on-board vessel communications in the bands between 450 and 470 MHz
<a href="#">M.1175</a>	1995-10	In force	Automatic receiving equipment for radiotelegraph and radiotelephone alarm signals
<a href="#">M.1176</a>	1995-10	In force	Technical parameters of radar target enhancers
<a href="#">M.1177</a>	2000-05	In force	Techniques for measurement of unwanted emissions of radar systems

<a href="#">M.1178</a>	1995-10	In force	Use of the maritime radionavigation band 283.5-315 kHz (Region 1) and 285-325 kHz (Regions 2 and 3)
<a href="#">M.1179</a>	1995-10	In force	Procedures for determining the interference coupling mechanisms and mitigation options for systems operating in bands adjacent to and in harmonic relationship with radar stations in the radiodetermination service
<a href="#">M.1180</a>	1995-10	In force	Availability of communication circuits in the aeronautical mobile-satellite (R) services (AMS(R)S)
<a href="#">M.1181</a>	1995-10	In force	Minimum performance objectives for narrow-band digital channels using geostationary satellites to serve transportable and vehicular mobile earth stations in the 1-3 GHz range, not forming part of the ISDN
<a href="#">M.1182</a>	1995-10	In force	Integration of terrestrial and satellite mobile communication systems
<a href="#">M.1183</a>	1995-10	In force	Permissible levels of interference in a digital channel of a geostationary network in mobile-satellite service in 1-3 GHz caused by other networks of this service and fixed-satellite service
<a href="#">M.1184</a>	2000-05	In force	Technical characteristics of mobile satellite systems in the frequency bands below 3 GHz for use in developing criteria for sharing between the mobile-satellite service (MSS) and other services
<a href="#">M.1185</a>	1997-10	In force	Method for determining coordination distance between ground based mobile earth stations and terrestrial stations operating in the 148.0-149.9 MHz band
<a href="#">M.1186</a>	1995-10	In force	Technical considerations for the coordination between mobile-satellite service (MSS) networks utilizing code division multiple access (CDMA) and other spread spectrum techniques in the 1-3 GHz band
<a href="#">M.1187</a>	1995-10	In force	A method for the calculation of the potentially affected region for a mobile-satellite service (MSS) network in the 1-3 GHz range using circular orbits
<a href="#">M.1188</a>	1995-10	In force	Impact of propagation on the design of non-GSO mobile-satellite systems not employing satellite diversity which provide service to handheld equipment
<a href="#">M.1221</a>	1997-02	In force	Technical and operational requirements for cellular multimode mobile radio stations
<a href="#">M.1222</a>	1997-02	In force	Transmission of data messages on shared private land mobile radio channels
<a href="#">M.1223</a>	1997-02	In force	Evaluation of security mechanisms for IMT-2000
<a href="#">M.1224</a>	1997-02	In force	Vocabulary of terms for International Mobile Telecommunications-2000 (IMT-2000)
<a href="#">M.1225</a>	1997-02	In force	Guidelines for evaluation of radio transmission technologies for IMT-2000
<a href="#">M.1226</a>	1997-02	In force	Technical and operational characteristics of wind profiler radars in bands in the vicinity of 50 MHz
<a href="#">M.1227</a>	2001-08	Pre-published	Draft revision of Recommendation ITU-R M.1227-1 - Technical and operational characteristics of wind profiler radars in bands in the vicinity of 1 000 MHz
<a href="#">M.1228</a>	1997-02	In force	Methodology for determining performance objectives for narrow-band channels in mobile satellite systems using geostationary satellites not forming part of the ISDN
<a href="#">M.1229</a>	1997-02	In force	Performance objectives for the digital aeronautical mobile-satellite service (AMSS) channels operating in the bands 1 525 to 1 559 MHz and 1 626.5 to 1 660.5 MHz not forming part of the ISDN
<a href="#">M.1230</a>	1997-02	In force	Performance objectives for space-to-Earth links operating in the mobile-satellite service with non-geostationary satellites in the 137-138 MHz band
<a href="#">M.1231</a>	1997-02	In force	Interference criteria for space-to-Earth links operating in the mobile-satellite service with non-geostationary satellites in the 137-138 MHz band
<a href="#">M.1232</a>	1997-02	In force	Sharing criteria for space-to-Earth links operating in the mobile-satellite service with non-geostationary satellites in the 137-138 MHz band
<a href="#">M.1233</a>	1997-02	In force	Technical considerations for sharing satellite network resources between the mobile-satellite service (MSS) (other than the aeronautical mobile-satellite (R) service (AMS(R)S)) and AMS(R)S
<a href="#">M.1234</a>	1997-02	In force	Permissible level of interference in a digital channel of a geostationary satellite network in the aeronautical mobile-satellite (R) service (AMS(R)S) in the bands 1 545 to 1 555 MHz and 1 646.5 to 1 656.5 MHz and its associated feeder links caused by other networks of this service and the fixed-satellite service

<a href="#">M.1307</a>	1997-10	In force	Automatic determination of location and guidance in the land mobile services
<a href="#">M.1308</a>	1997-10	In force	Evolution of land mobile systems towards IMT-2000
<a href="#">M.1309</a>	1997-10	In force	Digitally coded speech in the land mobile service
<a href="#">M.1310</a>	1997-10	In force	Transport information and control systems (TICS) - Objectives and requirements
<a href="#">M.1311</a>	1997-10	In force	Framework for modularity and radio commonality within IMT-2000
<a href="#">M.1312</a>	1997-10	In force	A long-term solution for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service
<a href="#">M.1313</a>	2000-05	In force	Technical characteristics of maritime radionavigation radars
<a href="#">M.1314</a>	1997-10	In force	Reduction of spurious emissions of radar systems operating in the 3 GHz and 5 GHz bands
<a href="#">M.1315</a>	1997-10	In force	Methodology for evaluating interference from narrow-band mobile-satellite networks to spread-spectrum direct-sequence mobile-satellite networks operating with space stations in low-Earth orbit at frequencies below 1 GHz
<a href="#">M.1316</a>	1997-10	In force	Principles and a methodology for frequency sharing in the 1 610.6-1 613.8 and 1 660-1 660.5 MHz bands between the mobile-satellite service (Earth-to-space) and the radio astronomy service
<a href="#">M.1317</a>	1997-10	In force	Considerations for sharing between systems of other services operating in bands allocated to the radionavigation-satellite and aeronautical radionavigation services and the global navigation satellite system (GLONASS-M)
<a href="#">M.1318</a>	1997-10	In force	Interference protection evaluation model for the radionavigation-satellite service in the 1 559-1 610 MHz band
<a href="#">M.1319</a>	2000-05	In force	The basis of a methodology to assess the impact of interference from a time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSSs) satellite system operating in the 2 GHz range on the performance of line-of-sight fixed service receivers
<a href="#">M.1343</a>	1997-11	In force	Essential technical requirements of mobile Earth stations for global non-geostationary mobile-satellite service systems in the band 1-3 GHz
<a href="#">M.1371</a>	2001-08	Pre-published	Draft revision of Recommendation ITU-R M.1371 - Technical characteristics for a universal shipborne automatic identification system using time division multiple access in the VHF maritime mobile band - (Question ITU-R 232/8)
<a href="#">M.1372</a>	1998-11	In force	Efficient use of the radio spectrum by radar stations in the radiodetermination service
<a href="#">M.1388</a>	1999-01	In force	Threshold levels to determine the need to coordinate between space stations in the broadcasting-satellite service (sound) and particular systems in the land mobile service in the band 1 452-1 492 MHz
<a href="#">M.1389</a>	1999-01	In force	Methods for achieving coordinated use of spectrum by multiple non-geostationary mobile-satellite service systems below 1 GHz and sharing with other services in existing mobile-satellite service allocations
<a href="#">M.1390</a>	1999-01	In force	Methodology for the calculation of IMT-2000 terrestrial spectrum requirements
<a href="#">M.1391</a>	1999-01	In force	Methodology for the calculation of IMT-2000 satellite spectrum requirements
<a href="#">M.1450</a>	2000-05	In force	Characteristics of broadband radio local area networks
<a href="#">M.1451</a>	2000-05	In force	Transport information and control systems: functionalities
<a href="#">M.1452</a>	2000-05	In force	Transport information and control systems - Low power short-range vehicular radar equipment at 60 GHz and 76 GHz
<a href="#">M.1453</a>	2000-05	In force	Transport information and control systems - Dedicated short range communications at 5.8 GHz
<a href="#">M.1454</a>	2000-05	In force	E.i.r.p. density limit and operational restrictions for RLANS or other wireless access transmitters in order to ensure the protection of feeder links of non-geostationary systems in the mobile-satellite service in the frequency band 5 150-5 250 MHz
<a href="#">M.1455</a>	2001-08	Pre-published	Draft revision of Recommendation ITU-R M.1455 - Key characteristics for the international mobile telecommunications-2000 (IMT-2000) radio interfaces
<a href="#">M.1456</a>	2000-05	In force	Minimum performance characteristics and operational conditions for high altitude platform stations providing IMT-2000 in the bands 1 885-1 980 MHz, 2 010-2 025 MHz

and 2 110-2 170 MHz in Regions 1 and 3 and 1 885-1 980 MHz and 2 110-2 160 MHz in Region 2

<a href="#">M.1457</a>	2001-08	Pre-published	Draft revision to Recommendation ITU-R M.1457 - Detailed specifications of the radio interfaces of international mobile telecommunications-2000 (IMT-2000)
<a href="#">M.1458</a>	2000-05	In force	Use of the frequency bands between 2.8-22 MHz by the aeronautical mobile (R) service for data transmission using class of emission J2D
<a href="#">M.1459</a>	2000-05	In force	Protection criteria for telemetry systems in the aeronautical mobile service and mitigation techniques to facilitate sharing with geostationary broadcasting-satellite and mobile-satellite services in the frequency bands 1 452-1 525 MHz and 2 310-2 360 MHz
<a href="#">M.1460</a>	2000-05	In force	Technical and operational characteristics and protection criteria of radiodetermination and meteorological radars in the 2 900-3 100 MHz band
<a href="#">M.1461</a>	2000-05	In force	Procedures for determining the potential for interference between radars operating in the radiodetermination service and systems in other services
<a href="#">M.1462</a>	2000-05	In force	Characteristics of and protection criteria for radars operating in the radiolocation service in the frequency range 420-450 MHz
<a href="#">M.1463</a>	2000-05	In force	Characteristics of and protection criteria for radars operating in the radiodetermination service in the frequency band 1 215-1 400 MHz
<a href="#">M.1464</a>	2000-05	In force	Characteristics of and protection criteria for radionavigation and meteorological radars operating in the frequency band 2 700-2 900 MHz
<a href="#">M.1465</a>	2000-05	In force	Characteristics of and protection criteria for radars operating in the radiodetermination service in the frequency band 3 100-3 700 MHz
<a href="#">M.1466</a>	2000-05	In force	Characteristics of, and protection criteria for radars operating in the radionavigation service in the frequency band 31.8-33.4 GHz
<a href="#">M.1467</a>	2000-05	In force	Prediction of A2 and NAVTEX ranges and protection of A2 global maritime distress and safety system distress watch channel
<a href="#">M.1468</a>	2000-05	In force	Technical characteristics and sharing scenarios of satellite systems offering multiple services
<a href="#">M.1469</a>	2000-05	In force	Methodology for evaluating potential for interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) (Earth-to-space) transmissions into line-of-sight fixed service receivers in the 2 GHz range
<a href="#">M.1470</a>	2000-05	In force	Methodology of sharing between MSS systems (Earth-to-space) and existing RNSS systems (space-to-Earth) in frequency bands 149.9-150.05 MHz and 399.9-400.05 MHz
<a href="#">M.1471</a>	2000-05	In force	Guidance to facilitate coordination and use of frequency bands shared between the mobile-satellite service and the fixed service in the frequency range 1-3 GHz
<a href="#">M.1472</a>	2000-05	In force	Methodology to evaluate the impact of interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) systems operating in the 2 GHz range on baseband performance in frequency division multiplexing-frequency modulation (FDM-FM) analogue line-of-sight (LOS) fixed service receivers
<a href="#">M.1473</a>	2000-05	In force	Methodology to evaluate the impact of interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) systems operating in the 2 GHz range on video baseband performance in TV-FM analogue line-of-sight fixed service receivers
<a href="#">M.1474</a>	2000-05	In force	Methodology to evaluate the impact of interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) systems operating in the 2 GHz range on baseband performance in digital line-of-sight fixed service receivers based on statistics of radio-frequency interference
<a href="#">M.1475</a>	2000-05	In force	Methodology for derivation of performance objectives of non-geostationary mobile-satellite service systems operating in the 1-3 GHz band not using satellite diversity
<a href="#">M.1476</a>	2000-05	In force	Performance objectives for narrow-band digital channels using geostationary satellites to serve transportable and mobile Earth stations in the 1-3 GHz range forming part of the integrated services digital network
<a href="#">M.1477</a>	2000-05	In force	Technical and performance characteristics of current and planned radionavigation-

			satellite service (space-to-Earth) and aeronautical radionavigation service receivers to be considered in interference studies in the band 1 559-1 610 MHz
<a href="#">M.1478</a>	2000-05	In force	Protection criteria for Cospas-Sarsat search and rescue processors in the band 406-406.1 MHz
<a href="#">M.1479</a>	2000-05	In force	Technical characteristics and performance requirements of current and planned radionavigation-satellite service (space-to-space) receivers to be considered in interference studies in the frequency bands 1 215-1 260 MHz and 1 559-1 610 MHz
<a href="#">M.1480</a>	2000-05	In force	Essential technical requirements of mobile Earth stations of geostationary mobile-satellite systems that are implementing the Global mobile personal communications by satellite (GMPCS) - Memorandum of understanding arrangements in parts of the frequency band 1-3 GHz
<a href="#">M.1544</a>	2001-08	Pre-published	Draft new Recommendation ITU-R M.[RAM.QUAL] - Minimum qualifications of radio amateurs - (Question ITU-R 48/8)
<a href="#">M.1545</a>	2001-08	Pre-published	Draft new Recommendation ITU-R[IMT.UNCERTAIN] - Measurement uncertainty as it applies to test limits for the terrestrial component of IMT-2000 - (Question ITU-R 229/8)

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**Radiowave propagation**

<a href="#">P.310</a>	1994-08	In force	Definitions of terms relating to propagation in non-ionized media
<a href="#">P.311</a>	2001-02	In force	Acquisition, presentation and analysis of data in studies of tropospheric propagation
<a href="#">P.313</a>	1999-07	In force	Exchange of information for short-term forecasts and transmission of ionospheric disturbance warnings
<a href="#">P.341</a>	1999-10	In force	The concept of transmission loss for radio links
<a href="#">P.368</a>	1992-03	In force	Ground-wave propagation curves for frequencies between 10 kHz and 30 MHz
<a href="#">P.369</a>	1994-08	Withdrawn	Reference atmosphere for refraction
<a href="#">P.370</a>	1995-10	In force	VHF and UHF propagation curves for the frequency range from 30 MHz to 1 000 MHz. Broadcasting services
<a href="#">P.371</a>	1999-07	In force	Choice of indices for long-term ionospheric predictions
<a href="#">P.372</a>	2001-02	In force	Radio noise
<a href="#">P.373</a>	1995-10	In force	Definitions of maximum and minimum transmission frequencies
<a href="#">P.434</a>	1995-10	Withdrawn	ITU-R reference ionospheric characteristics and methods of basic MUF, operational MUF and ray-path prediction
<a href="#">P.452</a>	2001-02	In force	Prediction procedure for the evaluation of microwave interference between stations on the surface of the Earth at frequencies above about 0.7 GHz
<a href="#">P.453</a>	2001-02	In force	The radio refractive index: its formula and refractivity data
<a href="#">P.525</a>	1994-08	In force	Calculation of free-space attenuation
<a href="#">P.526</a>	2001-02	In force	Propagation by diffraction
<a href="#">P.527</a>	1992-03	In force	Electrical characteristics of the surface of the Earth
<a href="#">P.528</a>	1986-07	In force	Propagation curves for aeronautical mobile and radionavigation services using the VHF, UHF and SHF bands
<a href="#">P.529</a>	1999-10	In force	Prediction methods for the terrestrial land mobile service in the VHF and UHF bands
<a href="#">P.530</a>	2001-02	In force	Propagation data and prediction methods required for the design of terrestrial line-of-sight systems
<a href="#">P.531</a>	2001-02	In force	Ionospheric propagation data and prediction methods required for the design for the design of satellite services and systems
<a href="#">P.532</a>	1992-03	In force	Ionospheric effects and operational considerations associated with artificial modification of the ionosphere and the radio-wave channel
<a href="#">P.533</a>	2001-02	In force	HF propagation prediction method
<a href="#">P.534</a>	1999-10	In force	Method for calculating sporadic-E field strength
<a href="#">P.581</a>	1990-06	In force	The concept of "worst month"
<a href="#">P.616</a>	1986-07	In force	Propagation data for terrestrial maritime mobile services operating at frequencies above 30 MHz
<a href="#">P.617</a>	1992-03	In force	Propagation prediction techniques and data required for the design of trans-horizon radio-relay systems
<a href="#">P.618</a>	2001-02	In force	Propagation data and prediction methods required for the design of Earth-space telecommunication systems
<a href="#">P.619</a>	1992-03	In force	Propagation data required for the evaluation of interference between stations in space and those on the surface of the Earth
<a href="#">P.620</a>	1999-10	In force	Propagation data required for the evaluation of coordination distances in the frequency range 100 MHz to 105 GHz

<a href="#">P.676</a>	2001-02	In force	Attenuation by atmospheric gases
<a href="#">P.678</a>	1992-03	In force	Characterization of the natural variability of propagation phenomena
<a href="#">P.679</a>	2001-02	In force	Propagation data required for the design of broadcasting-satellite systems
<a href="#">P.680</a>	1999-10	In force	Propagation data required for the design of Earth-space maritime mobile telecommunication systems
<a href="#">P.681</a>	2001-02	In force	Propagation data required for the design of Earth-space land mobile telecommunication systems
<a href="#">P.682</a>	1992-03	In force	Propagation data required for the design of Earth-space aeronautical mobile telecommunication systems
<a href="#">P.684</a>	2001-02	In force	Prediction of field strength at frequencies below about 150 kHz
<a href="#">P.832</a>	1999-07	In force	World Atlas of Ground Conductivities
<a href="#">P.833</a>	2001-02	In force	Attenuation in vegetation
<a href="#">P.834</a>	1999-10	In force	Effects of tropospheric refraction on radiowave propagation
<a href="#">P.835</a>	1999-10	In force	Reference standard atmospheres
<a href="#">P.836</a>	2001-02	In force	Water vapour: surface density and total columnar content
<a href="#">P.837</a>	2001-02	In force	Characteristics of precipitation for propagation modelling
<a href="#">P.838</a>	1999-10	In force	Specific attenuation model for rain for use in prediction methods
<a href="#">P.839</a>	2001-02	In force	Rain height model for prediction methods
<a href="#">P.840</a>	1999-10	In force	Attenuation due to clouds and fog
<a href="#">P.841</a>	2001-02	In force	Conversion of annual statistics to worst-months statistics
<a href="#">P.842</a>	1999-07	In force	Computation of reliability and compatibility of HF radio systems
<a href="#">P.843</a>	1997-08	In force	Communication by meteor-burst propagation
<a href="#">P.844</a>	1994-08	In force	Ionospheric factors affecting frequency sharing in the VHF and UHF bands (30 MHz-3 GHz)
<a href="#">P.845</a>	1997-08	In force	HF field-strength measurement
<a href="#">P.846</a>	1995-10	In force	Measurements of ionospheric and related characteristics
<a href="#">P.1057</a>	2001-02	Pre-published	Draft rev. of Rec. P.1057 - Probability distributions relevant to radiowave propagation modelling
<a href="#">P.1058</a>	1999-10	In force	Digital topographic databases for propagation studies
<a href="#">PI.1059</a>	1994-08	Withdrawn	Method for predicting sky-wave field strengths in the frequency range 1605 to 1705 kHz
<a href="#">P.1060</a>	1994-08	In force	Propagation factors affecting frequency sharing in HF terrestrial systems
<a href="#">P.1144</a>	2001-02	Pre-published	Draft rev. of Rec. P.1144-1 - Guide to the application of the propagation methods of Radiocommunication Study Group 3
<a href="#">P.1145</a>	1995-10	Withdrawn	Propagation data for the terrestrial land mobile service in the VHF and UHF bands
<a href="#">P.1146</a>	1995-10	In force	The prediction of field strength for land mobile and terrestrial broadcasting services in the frequency range from 1 to 3 GHz
<a href="#">P.1147</a>	1999-10	In force	Prediction of sky-wave field strength at frequencies between about 150 and 1 700 kHz
<a href="#">P.1148</a>	1997-05	In force	Standardized procedure for comparing predicted and observed HF sky-wave signal intensities and the presentation of such comparisons
<a href="#">P.1238</a>	2001-02	In force	Propagation data and prediction methods for the planning of indoor radiocommunication systems and radio local area networks in the frequency range 900 MHz to 100 GHz
<a href="#">P.1239</a>	1997-05	In force	ITU-R Reference ionospheric characteristics
<a href="#">P.1240</a>	1997-05	In force	ITU-R Methods of basic MUF, operational MUF and ray-path prediction
<a href="#">P.1321</a>	1997-08	In force	Propagation factors affecting systems using digital modulation techniques at LF and MF
<a href="#">P.1322</a>	1997-08	In force	Radiometric estimation of atmospheric attenuation
<a href="#">P.1406</a>	1999-07	In force	Propagation effects relating to terrestrial land mobile service in the VHF and UHF bands
<a href="#">P.1407</a>	1999-07	In force	Multipath propagation and parameterization of its characteristics
<a href="#">P.1409</a>	1999-10	In force	Propagation data and prediction methods required for the design of systems using high

			altitude platform stations at about 47 GHz
<a href="#">P.1410</a>	2001-02	In force	Propagation data and prediction methods required for the design of terrestrial broadband millimetric radio access systems operating in a frequency range of about 20-50 GHz
<a href="#">P.1411</a>	2001-02	In force	Propagation data and prediction methods for the planning of short-range outdoor radiocommunication systems and radio local area networks in the frequency range 300 MHz to 100 GHz
<a href="#">P.1412</a>	1999-10	In force	Propagation data for the evaluation of coordination between Earth stations working in the bidirectionally allocated frequency bands
<a href="#">P.1510</a>	2001-02	In force	Annual mean surface temperature
<a href="#">P.1511</a>	2001-02	In force	Topography for Earth-to-space propagation modelling

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## Radioastronomy

<a href="#">RA.314</a>	1992-03	In force	Preferred frequency bands for radioastronomical measurements
<a href="#">RA.479</a>	1995-10	In force	Protection of frequencies for radioastronomical measurements in the shielded zone of the Moon
<a href="#">RA.517</a>	1992-03	In force	Protection of the radioastronomy service from transmitters in adjacent bands
<a href="#">RA.611</a>	1992-03	In force	Protection of the radioastronomy service from spurious emissions
<a href="#">RA.769</a>	1995-10	In force	Protection criteria used for radioastronomical measurements
<a href="#">RA.1031</a>	1995-10	In force	Protection of the radioastronomy service in frequency bands shared with other services
<a href="#">RA.1237</a>	1997-02	In force	Protection of the radio astronomy service from unwanted emissions resulting from applications of wideband digital modulation
<a href="#">RA.1272</a>	1997-10	In force	Protection of radio astronomy measurements above 60 GHz from ground based interference
<a href="#">RA.1417</a>	1999-10	In force	A radio-quiet zone in the vicinity of the L2 Sun-Earth Lagrange point
<a href="#">RA.1513</a>	2001-03	In force	Levels of data loss to radio astronomy observations and percentage-of-time criteria resulting from degradation by interference for frequency bands allocated to the radio astronomy on a primary basis

**Fixed-satellite service**

<a href="#">S.352</a>	1982-07	In force	Hypothetical reference circuit for systems using analogue transmission in the fixed-satellite service
<a href="#">S.353</a>	1994-09	In force	Allowable noise power in the hypothetical reference circuit for frequency-division multiplex telephony in the fixed-satellite service
<a href="#">S.354</a>	1974-07	In force	Video bandwidth and permissible noise level in the hypothetical reference circuit for the fixed-satellite service
<a href="#">S.446</a>	1993-04	In force	Carrier energy dispersal for systems employing angle modulation by analogue signals or digital modulation in the fixed-satellite service
<a href="#">S.464</a>	1992-03	In force	Pre-emphasis characteristics for frequency-modulation systems for frequency-division multiplex telephony in the fixed-satellite service
<a href="#">S.465</a>	1993-04	In force	Reference earth-station radiation pattern for use in coordination and interference assessment in the frequency range from 2 to about 30 GHz
<a href="#">S.466</a>	1992-03	In force	Maximum permissible level of interference in a telephone channel of a geostationary-satellite network in the fixed-satellite service employing frequency modulation with frequency-division multiplex, caused by other networks of this service
<a href="#">S.481</a>	1986-07	In force	Measurement of noise in actual traffic for systems in the fixed-satellite service for telephony using frequency-division multiplex
<a href="#">S.482</a>	1986-07	In force	Measurement of performance by means of a signal of a uniform spectrum for systems using frequency-division multiplex telephony in the fixed-satellite service
<a href="#">S.483</a>	1997-05	In force	Maximum permissible level of interference in a television channel of a geostationary-satellite network in the fixed-satellite service employing frequency modulation, caused by other networks of this service
<a href="#">S.484</a>	1992-03	In force	Station-keeping in longitude of geostationary satellites in the fixed-satellite service
<a href="#">S.521</a>	2000-01	In force	Hypothetical reference digital paths for systems using digital transmission in the fixed-satellite service
<a href="#">S.522</a>	1994-09	In force	Allowable bit error ratios at the output of the hypothetical reference digital path for systems in the fixed-satellite service using pulse-code modulation for telephony
<a href="#">S.523</a>	1992-03	In force	Maximum permissible levels of interference in a geostationary-satellite network in the fixed-satellite service using 8-bit PCM encoded telephony, caused by other networks of this service
<a href="#">S.524</a>	2001-02	In force	Maximum permissible levels of off-axis e.i.r.p. density from earth stations in GSO networks operating in the fixed-satellite service transmitting in the 6 GHz, 14 GHz and 30 GHz frequency bands
<a href="#">S.579</a>	2001-06	Pre-published	Draft revision to Recommendation ITU-R S.579-4 - Availability objectives for a hypothetical reference circuit and a hypothetical reference digital path when used for telephony using pulse code modulation, or as part of an integrated services digital network hypothetical reference connection, in the fixed-satellite service
<a href="#">S.580</a>	1994-09	In force	Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellites
<a href="#">S.614</a>	1994-09	In force	Allowable error performance for a hypothetical reference digital path in the fixed-satellite service operating below 15 GHz when forming part of an international connection in an integrated services digital network
<a href="#">S.670</a>	1992-03	In force	Flexibility in the positioning of satellites as a design objective
<a href="#">S.671</a>	1994-09	In force	Necessary protection ratios for narrow-band single channel-per-carrier transmissions interfered with by analogue television carriers

<a href="#">S.672</a>	1997-09	In force	Satellite antenna radiation pattern for use as a design objective in the fixed-satellite service employing geostationary satellites
<a href="#">S.673</a>	2001-06	Pre-published	Draft revision to Recommendation ITU-R S.673 - Terms and definitions relating to space radiocommunications
<a href="#">S.725</a>	1992-03	In force	Technical characteristics for very small aperture terminals (VSATs)
<a href="#">S.726</a>	1993-04	In force	Maximum permissible level of spurious emissions from very small aperture terminals (VSATs)
<a href="#">S.727</a>	1992-03	In force	Cross-polarization isolation from very small aperture terminals (VSATs)
<a href="#">S.728</a>	1995-10	In force	Maximum permissible level of off-axis e.i.r.p. density from very small aperture terminals (VSATs)
<a href="#">S.729</a>	1992-03	In force	Control and monitoring function of very small aperture terminals (VSATs)
<a href="#">S.730</a>	1992-03	In force	Compensation of the effects of switching discontinuities for voice band data and of Doppler frequency-shifts in the fixed-satellite service
<a href="#">S.731</a>	1992-03	In force	Reference earth-station cross-polarized radiation pattern for use in frequency coordination and interference assessment in the frequency range from 2 to about 30 GHz
<a href="#">S.732</a>	1992-03	In force	Method for statistical processing of earth-station antenna side-lobe peaks
<a href="#">S.733</a>	2000-01	In force	Determination of the G/T ratio for Earth stations operating in the fixed-satellite service
<a href="#">S.734</a>	1992-03	In force	The application of interference cancellers in the fixed-satellite service
<a href="#">S.735</a>	1993-04	In force	Maximum permissible levels of interference in a geostationary-satellite network for an HRDP when forming part of the ISDN in the fixed-satellite service caused by other networks of this service below 15 GHz
<a href="#">S.736</a>	1997-05	In force	Estimation of polarization discrimination in calculations of interference between geostationary-satellite networks in the fixed-satellite service
<a href="#">S.737</a>	1992-03	In force	Relationship of technical coordination methods within the fixed-satellite service
<a href="#">S.738</a>	1992-03	In force	Procedure for determining if coordination is required between geostationary-satellite networks sharing the same frequency bands
<a href="#">S.739</a>	1992-03	In force	Additional methods for determining if detailed coordination is necessary between geostationary-satellite networks in the fixed-satellite service sharing the same frequency bands
<a href="#">S.740</a>	1992-03	In force	Technical coordination methods for fixed-satellite networks
<a href="#">S.741</a>	1994-09	In force	Carrier-to-interference calculations between networks in the fixed- satellite service
<a href="#">S.742</a>	1993-04	In force	Spectrum utilization methodologies
<a href="#">S.743</a>	1994-09	In force	The coordination between satellite networks using slightly inclined geostationary-satellite orbits (GSOs) and between such networks and satellite networks using non-inclined GSO satellites
<a href="#">S.744</a>	1992-03	In force	Orbit/spectrum improvement measures for satellite networks having more than one service in one or more frequency bands
<a href="#">S.1001</a>	1993-04	In force	Use of systems in the fixed-satellite service in the event of natural disasters and similar emergencies for warning and relief operations
<a href="#">S.1002</a>	1993-04	In force	Orbit management techniques for the fixed-satellite service
<a href="#">S.1003</a>	1993-04	In force	Environmental protection of the geostationary orbit
<a href="#">S.1061</a>	1994-09	In force	Utilization of fade countermeasures strategies and techniques in the fixed-satellite service
<a href="#">S.1062</a>	1999-11	In force	Allowable error performance for a hypothetical reference digital path operating at or above the primary rate
<a href="#">S.1063</a>	1994-09	In force	Criteria for sharing between BSS feeder links and other Earth-to-space or space-to-Earth links on the FSS
<a href="#">S.1064</a>	1995-10	In force	Pointing accuracy as a design objective for earthward antennas on board geostationary satellites in the FSS
<a href="#">S.1065</a>	1994-09	In force	Power flux-density values to facilitate the application of RR Article 14 for the FSS in Region 2 in relation to the BSS in the band 11.7-12.2 GHz
<a href="#">S.1066</a>	1994-09	In force	Ways of reducing the interference from the broadcasting-satellite service of one Region



into the fixed-satellite service of another Region around 12 GHz

<a href="#">S.1067</a>	1994-09	In force	Ways of reducing the interference from the broadcasting-satellite service into the fixed-satellite service in adjacent frequency bands around 12 GHz
<a href="#">S.1068</a>	1994-09	In force	Fixed-satellite and radiolocation/radionavigation services sharing in the band 13.75-14 GHz
<a href="#">S.1069</a>	1994-09	In force	Compatibility between the fixed-satellite service and the space science services in the band 13.75-14 GHz
<a href="#">S.1149</a>	1997-05	In force	Network architecture and equipment functional aspects of digital satellite systems in the fixed-satellite service forming part of synchronous digital hierarchy transport networks
<a href="#">S.1150</a>	1995-10	In force	Technical criteria to be used in examinations relating to the probability of harmful interference between frequency assignments in the FSS as required in No. 1506 of the Radio Regulations
<a href="#">S.1151</a>	1995-10	In force	Sharing between the inter-satellite service involving geostationary satellites in the fixed-satellite service and the radionavigation service at 33 GHz
<a href="#">S.1250</a>	1997-05	In force	Network management architecture for digital satellite systems forming part of SDH transport networks in the fixed-satellite service
<a href="#">S.1251</a>	1997-07	In force	Network management - Performance management object class definitions for satellite systems network elements forming part of SFH transport networks in the fixed-satellite service
<a href="#">S.1252</a>	1997-05	In force	Network management - Payload configuration object class definitions for satellite system network elements forming part of SDH transport networks in the fixed-satellite service
<a href="#">S.1253</a>	1997-05	In force	Technical options to facilitate coordination of fixed-satellite service networks in certain orbital arc segments and frequency bands
<a href="#">S.1254</a>	1997-05	In force	Best practices to facilitate the coordination process of fixed-satellite service satellite networks
<a href="#">S.1255</a>	1997-05	In force	Use of adaptive uplink power control to mitigate codirectional interference between geostationary satellite orbit/fixed-satellite service (GSO/FSS) networks and feeder links of non-geostationary satellite orbit/mobile satellite service (non-GSO/MSS) networks and between GSO/FSS networks and non-GSO/FSS networks
<a href="#">S.1256</a>	1997-05	In force	Methodology for determining the maximum aggregate power flux-density at the geostationary-satellite orbit in the band 6 700-7 075 MHz from feeder links of non-geostationary satellite systems in the mobile-satellite service in the space-to-Earth direction
<a href="#">S.1257</a>	2001-02	In force	Analytical method to calculate short-term visibility and interference statistics for non-geostationary satellite orbit satellites as seen from a point on the Earth's surface
<a href="#">S.1323</a>	2000-01	In force	Maximum permissible levels of interference in a satellite network (GSO/FSS; non-GSO/FSS; non-GSO/MSS feeder links) in the fixed-satellite service caused by other codirectional networks below 30 GHz
<a href="#">S.1324</a>	1997-09	In force	Analytical method for estimating interference between non-geostationary mobile-satellite feeder links and geostationary fixed-satellite networks operating co-frequency and codirectionally
<a href="#">S.1325</a>	2001-06	Pre-published	Draft revision to Recommendation ITU-R S.1325-1 - 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 networks
<a href="#">S.1326</a>	1997-09	In force	Feasibility of sharing between the inter-satellite service and the fixed-satellite service in the frequency band 50.4-51.4 GHz
<a href="#">S.1327</a>	1997-09	In force	Requirements and suitable bands for operation of the inter-satellite service within the range 50.2-71 GHz
<a href="#">S.1328</a>	2001-02	In force	Satellite system characteristics to be considered in frequency sharing analyses between geostationary-satellite orbit (GSO) and non-GSO satellite systems in the fixed-satellite service (FSS) including feeder links for the mobile-satellite service (MSS)
<a href="#">S.1329</a>	1997-09	In force	Frequency sharing of the bands 19.7-20.2 GHz and 29.5-30.0 GHz between systems in the mobile-satellite service and systems in the fixed-satellite service

<a href="#">S.1339</a>	1999-11	In force	Sharing between spaceborne passive sensors of the Earth exploration-satellite service and inter-satellite links of geostationary-satellite networks in the range 54.25 to 59.3 GHz
<a href="#">S.1340</a>	1997-10	In force	Sharing between feeder links for the mobile-satellite service and the aeronautical radionavigation service in the Earth-to-space direction in the band 15.4-15.7 GHz
<a href="#">S.1341</a>	1997-10	In force	Sharing between feeder links for the mobile-satellite service and the aeronautical radionavigation service in the space-to-Earth direction in the band 15.4-15.7 GHz and the protection of the radio astronomy service in the band 15.35-15.4 GHz
<a href="#">S.1342</a>	1997-10	In force	Method for determining coordination distances, in the 5 GHz band, between the international standard microwave landing system in the aeronautical radionavigation service and non-geostationary mobile satellite service stations providing feeder uplink services
<a href="#">S.1418</a>	1999-11	In force	Method for calculating single entry carrier-to-interference ratios for links in inter-satellite service using geostationary orbit
<a href="#">S.1419</a>	1999-11	In force	Interference mitigation techniques to facilitate coordination between non-geostationary-satellite orbit mobile-satellite service feeder links and geostationary-satellite orbit fixed-satellite service networks in the bands 19.3-19.7 GHz and 29.1-29.5 GHz
<a href="#">S.1420</a>	1999-11	In force	Performance for broadband integrated services digital network asynchronous transfer mode via satellite
<a href="#">S.1424</a>	2000-01	In force	Availability objectives for a hypothetical reference digital path when used for the transmission of B-ISDN asynchronous transfer mode in the fixed-satellite service by geostationary orbit satellite systems using frequencies below 15 GHz
<a href="#">S.1425</a>	2000-01	In force	Transmission considerations for digital carriers using higher levels of modulation on satellite circuits
<a href="#">S.1426</a>	2000-01	In force	Aggregate power flux-density limits, at the FSS satellite orbit for radio local area network (RLAN) transmitters operating in the 5 150-5 250 MHz band sharing frequencies with the FSS (RR No. S5.447A)
<a href="#">S.1427</a>	2000-01	In force	Methodology and criterion to assess interference from radio local area (RLAN) transmitters to non-GSO MSS feeder links in the band 5 150-5 250 MHz
<a href="#">S.1428</a>	2001-02	In force	Reference FSS earth-station radiation patterns for use in interference assessment involving non-GSO satellites in frequency bands between 10.7 GHz and 30 GHz
<a href="#">S.1429</a>	2000-01	In force	Error performance objectives due to internetwork interference between GSO and non-GSO FSS systems for hypothetical reference digital paths operating at or above the primary rate carried by systems using frequencies below 15 GHz
<a href="#">S.1430</a>	2000-01	In force	Determination of the coordination area for Earth stations operating with non-geostationary space stations with respect to Earth stations operating in the reverse direction in frequency bands allocated bidirectionally to the fixed-satellite service
<a href="#">S.1431</a>	2000-01	In force	Methods to enhance sharing between non-GSO FSS systems (except MSS feeder links) in the frequency bands between 10-30 GHz
<a href="#">S.1432</a>	2000-01	In force	Apportionment of the allowable error performance degradations to fixed satellite service (FSS) hypothetical reference digital paths arising from time invariant interference for systems operating below 15 GHz
<a href="#">S.1433</a>	2000-01	In force	Uplink and inter-satellite equivalent power flux-density radiated by non-GSO FSS Systems
<a href="#">S.1503</a>	2000-05	In force	Functional description to be used in developing software tools for determining conformity of non-geostationary-satellite orbit fixed-satellite system networks with limits contained in Article S22 of the Radio Regulations
<a href="#">S.1512</a>	2001-02	In force	Measurement procedure for determining non-geostationary satellite orbit satellite equivalent isotropically radiated power and antenna discrimination
<a href="#">S.1521</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[SDH-REF] - Allowable error performance for a hypothetical reference digital path based on the synchronous digital hierarchy
<a href="#">S.1522</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/7] - Impact of loss of synchronization and timing recovery on availability in hypothetical reference digital paths
<a href="#">S.1523</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/11] - Methodology for performing parametric evaluation studies of interference sensitivity for GSO FSS systems sharing

			spectrum in bands above 10 GHz
<a href="#">S.1524</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/12] - GSO/GSO FSS network coordination identification
<a href="#">S.1525</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/13] - Impact of interference from the Sun into a GSO FSS link
<a href="#">S.1526</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/14] - Definition of a non-GSO FSS system interference environment metric for co-directional frequency sharing between two non-GSO FSS systems
<a href="#">S.1527</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/15] - Procedure for the identification of non-GSO satellites causing interference into an operating GSO earth station
<a href="#">S.1528</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/16] - Satellite antenna radiation pattern for non-geostationary orbit (non-GSO) satellite antennas operating in the fixed-satellite service below 30 GHz
<a href="#">S.1529</a>	2001-06	Pre-published	Draft new Recommendation ITU-R S.[DOC. 4/18] - 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

**Space applications and meteorology**

<a href="#">SA.362</a>	1982-07	Withdrawn	Frequencies technically suitable for meteorological satellites
<a href="#">SA.363</a>	1994-03	In force	Space operation systems. Frequencies, bandwidths and protection criteria
<a href="#">SA.364</a>	1992-03	In force	Preferred frequencies and bandwidths for manned and unmanned near-Earth research satellites
<a href="#">SA.509</a>	1998-02	In force	Generalized space research Earth station and radio astronomy antenna radiation pattern for use in interference calculations, including coordination procedures
<a href="#">SA.510</a>	1997-10	In force	Feasibility of frequency sharing between the space research service and other services in bands near 14 and 15 GHz - Potential interference from data relay satellite systems
<a href="#">SA.513</a>	1986-07	Withdrawn	Preferred frequency bands for spacecraft transmitters used as beacons
<a href="#">SA.514</a>	1997-10	In force	Interference criteria for command and data transmission systems operating in the Earth exploration-satellite and meteorological-satellite services
<a href="#">SA.515</a>	1997-06	In force	Frequency bands and bandwidths used for satellite passive sensing
<a href="#">SA.516</a>	1994-03	In force	Feasibility of sharing between active sensors used on Earth exploration and meteorological satellites and the radiolocation service
<a href="#">SA.577</a>	1997-06	In force	Preferred frequencies and necessary bandwidths for spaceborne active remote sensors
<a href="#">SA.578</a>	1982-07	Withdrawn	Protection criteria and sharing considerations relating to deep-space research
<a href="#">SA.609</a>	1992-03	In force	Protection criteria for telecommunication links for manned and unmanned near-Earth research satellites
<a href="#">SA.1012</a>	1994-03	In force	Preferred frequency bands for deep-space research in the 1-40 GHz range
<a href="#">SA.1013</a>	1994-03	In force	Preferred frequency bands for deep-space research in the 40-120 GHz range
<a href="#">SA.1014</a>	1994-03	In force	Telecommunication requirements for manned and unmanned deep-space research
<a href="#">SA.1015</a>	1994-03	In force	Bandwidth requirements for deep-space research
<a href="#">SA.1016</a>	1994-03	In force	Sharing considerations relating to deep-space research
<a href="#">SA.1017</a>	1994-03	In force	Preferred method for calculating link performance in the space research service
<a href="#">SA.1018</a>	1994-03	In force	Hypothetical reference system for systems comprising data relay satellites in the geostationary orbit and user spacecraft in low Earth-orbits
<a href="#">SA.1019</a>	1994-03	In force	Preferred frequency bands and transmission directions for data relay satellite systems
<a href="#">SA.1020</a>	1994-03	In force	Hypothetical reference system for the Earth exploration-satellite and meteorological satellite services
<a href="#">SA.1021</a>	1994-03	In force	Methodology for determining performance objectives for systems in the Earth exploration-satellite and meteorological-satellite services
<a href="#">SA.1022</a>	1999-10	In force	Methodology for determining interference criteria for systems in the Earth exploration-satellite and meteorological-satellite services
<a href="#">SA.1023</a>	1994-03	In force	Methodology for determining sharing and coordination criteria for systems in the Earth exploration-satellite and meteorological-satellite services
<a href="#">SA.1024</a>	1997-06	In force	Necessary bandwidths and preferred frequency bands for data transmission from Earth exploration satellites (not including meteorological satellites)
<a href="#">SA.1025</a>	1999-10	In force	Performance criteria for space-to-Earth data transmission systems operating in the Earth exploration-satellite and meteorological-satellite services using satellites in low-Earth orbit
<a href="#">SA.1026</a>	1999-10	In force	Interference criteria for space-to-Earth data transmission systems operating in the Earth exploration-satellite and meteorological-satellite services using satellites in low-Earth

orbit

<a href="#">SA.1027</a>	1999-10	In force	Sharing and coordination criteria for space-to-Earth data transmission systems in the Earth exploration-satellite and meteorological-satellite services using satellites in low-Earth orbit
<a href="#">SA.1028</a>	1997-06	In force	Performance criteria for satellite passive remote sensing
<a href="#">SA.1029</a>	1997-06	In force	Interference criteria for satellite passive remote sensing
<a href="#">SA.1030</a>	1994-03	In force	Telecommunication requirements of satellite systems for geodesy and geodynamics
<a href="#">SA.1071</a>	1994-07	In force	Use of the 13.75 to 14.0 GHz band by the space science services and the fixed satellite service
<a href="#">SA.1154</a>	1995-10	In force	Provisions to protect the space research (SR), space operations (SO) and Earth-exploration satellite services (EES) and to facilitate sharing with the mobile service in the 2 025-2 110 and 2 200-2 290 MHz bands
<a href="#">SA.1155</a>	1995-10	In force	Protection criteria related to the operation of data relay satellite systems
<a href="#">SA.1156</a>	1995-10	In force	Methods of calculating low-orbit satellite visibility statistics
<a href="#">SA.1157</a>	1995-10	In force	Protection criteria for deep-space research
<a href="#">SA.1158</a>	1999-10	In force	Sharing of the 1 675-1 710 MHz band between the meteorological-satellite service (space-to-Earth) and the mobile-satellite service (Earth-to-space)
<a href="#">SA.1159</a>	1999-10	In force	Performance criteria for data dissemination and direct data readout systems in the Earth exploration-satellite service and meteorological-satellite services using satellites in geostationary orbit
<a href="#">SA.1160</a>	1999-10	In force	Interference criteria for data dissemination and direct data readout systems in the Earth exploration-satellite and meteorological-satellite services using satellites in geostationary orbit
<a href="#">SA.1161</a>	1999-10	In force	Sharing and coordination criteria for data dissemination and direct data readout systems in the Earth exploration-satellite and meteorological-satellite services using satellites in geostationary orbit
<a href="#">SA.1162</a>	1997-06	In force	Telecommunication requirements and performance criteria for service links in data collection and platform location systems in the Earth exploration- and meteorological-satellite services
<a href="#">SA.1163</a>	1999-10	In force	Interference criteria for service links in data collection systems in the Earth exploration-satellite and meteorological-satellite services
<a href="#">SA.1164</a>	1999-10	In force	Sharing and coordination criteria for service links in data collection systems in the Earth exploration-satellite and meteorological-satellite services
<a href="#">SA.1165</a>	1997-06	In force	Technical characteristics and performance criteria for radiosonde systems in the meteorological aids service
<a href="#">SA.1166</a>	1999-10	In force	Performance and interference criteria for active spaceborne sensors
<a href="#">SA.1236</a>	1997-02	In force	Frequency sharing between space research service extra-vehicular activity (EVA) links and fixed and mobile service links in the 410-420 MHz band
<a href="#">SA.1258</a>	1999-10	In force	Sharing of the frequency band 401-403 MHz between the meteorological-satellite service, Earth exploration-satellite service and meteorological Aids service
<a href="#">SA.1259</a>	1997-06	In force	Feasibility of sharing between spaceborne passive sensors and the fixed service from 50 to 60 GHz
<a href="#">SA.1260</a>	1997-06	In force	Feasibility of sharing between active spaceborne sensors and other services in the vicinity of 410-470 MHz
<a href="#">SA.1261</a>	1997-06	In force	Feasibility of sharing between spaceborne cloud radars and other services in the range of 92-95 GHz
<a href="#">SA.1262</a>	1997-06	In force	Sharing and coordination criteria for meteorological aids in the 400.15-406 MHz and 1 668.4-1 700 MHz bands
<a href="#">SA.1263</a>	1997-06	In force	Interference criteria for meteorological aids operated in the 400.15-406 MHz and 1 668.4-1 700 MHz bands
<a href="#">SA.1264</a>	1997-06	In force	Frequency sharing between the meteorological aids service and the mobile-satellite service (Earth-to-space) in the 1 675-1 700 MHz band

<a href="#">SA.1273</a>	1997-10	In force	Power flux-density levels from the space research, space operation and Earth exploration-satellite services at the surface of the Earth required to protect the fixed service in the bands 2 025-2 110 MHz and 2 200-2 290 MHz
<a href="#">SA.1274</a>	1997-10	In force	Criteria for data relay satellite networks to facilitate sharing with systems in the fixed service in the bands 2 025-2 110 MHz and 2 200-2 290 MHz
<a href="#">SA.1275</a>	1997-10	In force	Orbital locations of data relay satellites to be protected from the emissions of fixed service systems operating in the band 2 200-2 290 MHz
<a href="#">SA.1276</a>	1997-10	In force	Orbital locations of data relay satellites to be protected from the emissions of fixed service systems operating in the band 25.25-27.5 GHz
<a href="#">SA.1277</a>	1997-10	In force	Sharing in the 8 025-8 400 MHz frequency band between the Earth exploration-satellite service and the fixed, fixed-satellite, meteorological-satellite and mobile services in Regions 1, 2 and 3
<a href="#">SA.1278</a>	1997-10	In force	Feasibility of sharing between the Earth exploration-satellite service (space-to-Earth) and the fixed, inter-satellite, and mobile services in the band 25.5-27.0 GHz
<a href="#">SA.1279</a>	1997-10	In force	Spectrum sharing between spaceborne passive sensors and inter-satellite links in the range 50.2-59.3 GHz
<a href="#">SA.1280</a>	1997-10	In force	Selection of active spaceborne sensor emission characteristics to mitigate the potential for interference to terrestrial radars operating in frequency bands 1-10 GHz
<a href="#">SA.1281</a>	1997-10	In force	Protection of stations in the radiolocation service from emissions from active spaceborne sensors in the band 13.4-13.75 GHz
<a href="#">SA.1282</a>	1997-10	In force	Feasibility of sharing between wind profiler radars and active spaceborne sensors in the vicinity of 1 260 MHz
<a href="#">SA.1344</a>	1998-02	In force	Preferred frequency bands and bandwidths for the transmission of space VLBI data
<a href="#">SA.1345</a>	1998-02	In force	Methods for predicting radiation patterns of large antennas used for space research and radio astronomy
<a href="#">SA.1346</a>	1998-02	In force	Sharing between the meteorological aids service and medical implant communication systems (MICS) operating in the mobile service in the frequency band 401-406 MHz
<a href="#">SA.1347</a>	1998-02	In force	Feasibility of sharing between radionavigation-satellite service receivers and the Earth exploration-satellite (active) and space research (active) services in the 1 215-1 260 MHz band
<a href="#">SA.1396</a>	1999-04	In force	Protection criteria for the space research service in the 37-38 and 40-40.5 GHz bands
<a href="#">SA.1414</a>	1999-10	In force	Characteristics of data relay satellite systems
<a href="#">SA.1415</a>	1999-10	In force	Sharing between inter-satellite service systems in the frequency band 25.25-27.5 GHz
<a href="#">SA.1416</a>	1999-10	In force	Sharing between spaceborne passive sensors and the inter-satellite service operating near 118 and 183 GHz
<a href="#">SA.1449</a>	2000-05	In force	Feasibility of sharing between the fixed-satellite service (FSS) (space-to-Earth) and the Earth exploration-satellite (passive) and space research (passive) services in the band 18.6-18.8 GHz



**Frequency sharing between the fixed-satellite service and the fixed service**

<a href="#">SF.355</a>	1992-03	In force	Frequency sharing between systems in the fixed-satellite service and radio-relay systems in the same frequency bands
<a href="#">SF.356</a>	1978-07	In force	Maximum allowable values of interference from line-of-sight radio-relay systems in a telephone channel of a system in the fixed-satellite service employing frequency modulation, when the same frequency bands are shared by both systems
<a href="#">SF.357</a>	1997-05	In force	Maximum allowable values of interference in a telephone channel of an analogue angle-modulated radio-relay system sharing the same frequency bands as systems in the fixed-satellite service
<a href="#">SF.358</a>	1995-10	In force	Maximum permissible values of power flux-density at the surface of the Earth produced by satellites in the fixed-satellite service using the same frequency bands above 1 GHz as line-of-sight radio-relay systems
<a href="#">SF.406</a>	1993-04	In force	Maximum equivalent isotropically radiated power of radio-relay system transmitters operating in the frequency bands shared with the fixed-satellite service
<a href="#">SF.558</a>	1986-07	In force	Maximum allowable values of interference from terrestrial radio links to systems in the fixed-satellite service employing 8-bit PCM encoded telephony and sharing the same frequency bands
<a href="#">SF.615</a>	1997-05	In force	Maximum allowable values of interference from the fixed-satellite service into terrestrial radio-relay systems which may form part of an ISDN and share the same frequency band below 15 GHz
<a href="#">SF.674</a>	1997-05	In force	Power flux-density values to facilitate the application of Article 14 of the Radio Regulations for FSS in relation to the fixed-satellite service in the 11.7-12.2 GHz band in Region 2
<a href="#">SF.675</a>	1994-08	In force	Calculation of the maximum power density (averaged over 4 kHz) of an angle-modulated carrier
<a href="#">SF.765</a>	1992-03	In force	Intersection of radio-relay antenna beams with orbits used by space stations in the fixed-satellite service
<a href="#">SF.766</a>	1992-03	In force	Methods for determining the effects of interference on the performance and the availability of terrestrial radio-relay systems and systems in the fixed-satellite service
<a href="#">SF.1004</a>	1993-04	In force	Maximum equivalent isotropically radiated power transmitted towards the horizon by earth stations of the fixed-satellite service sharing frequency bands with the fixed service
<a href="#">SF.1005</a>	1993-04	In force	Sharing between the fixed service and the fixed-satellite service with bidirectional usage in bands above 10 GHz currently unidirectionally allocated
<a href="#">SF.1006</a>	1993-04	In force	Determination of the interference potential between earth stations of the fixed-satellite service and stations in the fixed service
<a href="#">SF.1008</a>	1995-10	In force	Possible use by space stations in the fixed-satellite service of orbits slightly inclined with respect to the geostationary-satellite orbit in bands shared with the fixed service
<a href="#">SF.1193</a>	1995-10	In force	Carrier-to-interference calculations between earth stations in the fixed-satellite service and radio-relay systems
<a href="#">SF.1320</a>	1997-08	In force	Maximum allowable values of power flux-density at the surface of the Earth produced by non-geostationary satellites in the fixed-satellite service used in feeder links for the mobile-satellite service and sharing the same frequency bands with radio-relay systems
<a href="#">SF.1395</a>	1999-03	In force	Minimum propagation attenuation due to atmospheric gases for use in frequency sharing studies between the fixed-satellite service and the fixed service
<a href="#">SF.1481</a>	2000-05	In force	Frequency sharing between systems in the fixed service using high-altitude platform stations and satellite systems in the geostationary orbit in the fixed-satellite service in the

bands 47.2-47.5 and 47.9-48.2 GHz

<a href="#">SF.1482</a>	2000-05	In force	Maximum allowable values of power flux-density (pfd) produced at the Earth's surface by non-GSO satellites in the fixed-satellite service (FSS) operating in the 10.7-12.75 GHz band
<a href="#">SF.1483</a>	2000-05	In force	Maximum allowable values of power flux-density (pfd) produced at the Earth's surface by non-GSO satellites in the fixed-satellite service (FSS) operating in the 17.7-19.3 GHz band
<a href="#">SF.1484</a>	2000-05	In force	Maximum allowable values of power flux-density at the surface of the Earth produced by non-geostationary satellites in the fixed-satellite service operating in the 37.5-40.5 GHz and 40.5-42.5 GHz bands to protect the fixed service
<a href="#">SF.1485</a>	2000-05	In force	Determination of the coordination area for earth stations operating with non-geostationary space stations in the fixed-satellite service in frequency bands shared with the fixed service
<a href="#">SF.1486</a>	2000-05	In force	Sharing methodology between fixed wireless access systems in the fixed service and very small aperture terminals in the fixed-satellite service in the 3 400-3 700 MHz band

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## Spectrum management

<a href="#">SM.182</a>	1992-03	In force	Automatic monitoring of occupancy of the radio-frequency spectrum
<a href="#">SM.239</a>	1978-07	In force	Spurious emissions from sound and television broadcast receivers
<a href="#">SM.326</a>	1998-11	In force	Determination and measurement of the power of amplitude-modulated radio transmitters
<a href="#">SM.328</a>	1999-12	In force	Spectra and bandwidth of emissions
<a href="#">SM.329</a>	2001-07	Pre-published	Draft revision of Recommendation ITU-R SM.329-8 - Spurious emissions - (Question ITU-R 211/1)
<a href="#">SM.331</a>	1978-07	In force	Noise and sensitivity of receivers
<a href="#">SM.332</a>	1978-07	In force	Selectivity of receivers
<a href="#">SM.337</a>	1997-10	In force	Frequency and distance separations
<a href="#">SM.377</a>	1994-07	In force	Accuracy of frequency measurements at stations for international monitoring
<a href="#">SM.378</a>	1995-10	In force	Field-strength measurements at monitoring stations
<a href="#">SM.433</a>	1992-03	In force	Methods for the measurement of radio interference and the determination of tolerable levels of interference
<a href="#">SM.443</a>	1995-10	In force	Bandwidth measurement at monitoring stations
<a href="#">SM.508</a>	1978-07	Withdrawn	Use of radio-noise data in spectrum utilization studies
<a href="#">SM.575</a>	1982-07	In force	Protection of fixed monitoring stations against radio-frequency interference
<a href="#">SM.667</a>	1990-06	In force	National spectrum management data
<a href="#">SM.668</a>	1997-03	In force	Electronic exchange of information for spectrum management purposes
<a href="#">SM.669</a>	1994-07	In force	Protection ratios for spectrum sharing investigations
<a href="#">SM.851</a>	1993-04	In force	Sharing between the broadcasting service and the fixed and/or mobile services in the VHF and UHF bands
<a href="#">SM.852</a>	1992-03	In force	Sensitivity of radio receivers for class of emissions F3E
<a href="#">SM.853</a>	1997-10	In force	Necessary bandwidth
<a href="#">SM.854</a>	1992-03	In force	Direction finding at monitoring stations of signals below 30 MHz
<a href="#">SM.855</a>	1997-10	In force	Multi-service telecommunication systems
<a href="#">SM.856</a>	1997-03	In force	New spectrally efficient techniques and systems
<a href="#">SM.1009</a>	1995-10	In force	Compatibility between the sound-broadcasting service in the band of about 87-108 MHz and the aeronautical services in the band 108-137 MHz
<a href="#">SM.1045</a>	1997-07	In force	Frequency tolerance of transmitters
<a href="#">SM.1046</a>	1997-10	In force	Definition of spectrum use and efficiency of a radio system
<a href="#">SM.1047</a>	2001-07	Pre-published	Draft revision or Recommendation ITU-R SM.1047 - National spectrum management
<a href="#">SM.1048</a>	1994-07	In force	Design guidelines for a basic automated spectrum management system (BASMS)
<a href="#">SM.1049</a>	1995-10	In force	A method of spectrum management to be used for aiding frequency assignment for terrestrial services in border areas
<a href="#">SM.1050</a>	1994-07	In force	Tasks of a monitoring service
<a href="#">SM.1051</a>	1997-07	In force	Priority of identifying and eliminating harmful interference in the band 406-406.1 MHz
<a href="#">SM.1052</a>	1994-07	In force	Automatic identification of radio stations
<a href="#">SM.1053</a>	1994-07	In force	Methods of improving HF direction-finding accuracy at fixed stations
<a href="#">SM.1054</a>	1994-07	In force	Monitoring of radio emissions from spacecraft at monitoring stations

<a href="#">SM.1055</a>	1994-07	In force	The use of spread spectrum techniques
<a href="#">SM.1056</a>	1994-07	In force	Limitation of radiation from industrial, scientific and medical (ISM) equipment
<a href="#">SM.1131</a>	1995-10	In force	Factors to consider in allocating spectrum on a worldwide basis
<a href="#">SM.1132</a>	2001-07	Pre-published	Draft revision of Recommendation ITU-R SM.1132-1 - General principles and methods for sharing between radiocommunication services or between radio stations - (Question ITU-R 45/1)
<a href="#">SM.1133</a>	1995-10	In force	Spectrum utilization of broadly defined services
<a href="#">SM.1134</a>	1995-10	In force	Intermodulation interference calculations in the land-mobile service
<a href="#">SM.1135</a>	1995-10	In force	SINPO and SINPFEMO codes
<a href="#">SM.1138</a>	1995-10	In force	Determination of necessary bandwidths including examples for their calculation and associated examples for the designation of emissions
<a href="#">SM.1139</a>	1995-10	In force	International monitoring system
<a href="#">SM.1140</a>	1995-10	In force	Test procedures for measuring aeronautical receiver characteristics used for determining compatibility between the sound-broadcasting service in the band of about 87-108 MHz and the aeronautical services in the band 108-118 MHz
<a href="#">SM.1235</a>	1997-03	In force	Performance functions for digital modulation systems in an interference environment
<a href="#">SM.1265</a>	2001-07	Pre-published	Draft revision of Recommendation ITU-R SM.1265 - National alternative allocation methods
<a href="#">SM.1266</a>	1997-07	In force	Adaptive MF/HF systems
<a href="#">SM.1267</a>	1997-07	In force	Collection and publication of monitoring data to assist frequency assignment for geostationary satellite systems
<a href="#">SM.1268</a>	1999-01	In force	Method of measuring the maximum frequency deviation of FM broadcast emissions at monitoring stations
<a href="#">SM.1269</a>	1997-07	In force	Classification of direction finding bearings
<a href="#">SM.1270</a>	1997-07	In force	Additional information for monitoring purposes related to classification and designation of emission
<a href="#">SM.1271</a>	1997-10	In force	Efficient spectrum utilization using probabilistic methods
<a href="#">SM.1370</a>	2001-07	Pre-published	Draft revision of Recommendation ITU-R SM.1370 - Design guidelines for developing advanced automated spectrum management systems (ASMS) - (Question ITU-R 68/1)
<a href="#">SM.1392</a>	2000-04	In force	Essential requirements for a spectrum monitoring station for developing countries
<a href="#">SM.1393</a>	1999-01	In force	Common formats for the exchange of information between monitoring stations
<a href="#">SM.1394</a>	1999-01	In force	Common format for memorandum of understanding between the agreeing countries regarding cooperation in spectrum monitoring matters
<a href="#">SM.1413</a>	1999-10	In force	Radiocommunication data dictionary
<a href="#">SM.1446</a>	2000-04	In force	Definition and measurement of intermodulation products in transmitter using frequency, phase, or complex modulation techniques
<a href="#">SM.1447</a>	2000-04	In force	Monitoring of the radio coverage of land mobile networks to verify compliance with a given licence
<a href="#">SM.1448</a>	2000-05	In force	Determination of the coordination area around an earth station in the frequency bands between 100 MHz and 105 GHz
<a href="#">SM.1535</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[SAF] - The protection of safety services from unwanted emissions - (Question ITU-R 211/1)
<a href="#">SM.1536</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[Doc. 1/17] - Frequency channel occupancy measurements - (Question ITU-R 29-4/1)
<a href="#">SM.1537</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[Doc. 1/18] - Automation and integration of spectrum monitoring systems with automated spectrum management - (Question ITU-R 68/1)
<a href="#">SM.1538</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[doc. 1/19] - Technical and operating parameters and spectrum requirements for short-range radiocommunication devices - (Question ITU-R 213/1)
<a href="#">SM.1539</a>	2001-07	Pre-	Draft new Recommendation ITU-R SM.[BOUNDARY] - Variation of the boundary

published between the out-of-band and spurious domains required for the application of Recommendations ITU-R SM.[OOB] and ITU-R SM.329 - (Question ITU-R 211/1)

<a href="#">SM.1540</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[OAB] - Unwanted emissions in the out-of-band domain falling into adjacent allocated bands - (Question ITU-R 211/1)
<a href="#">SM.1541</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[OOB] - Unwanted emissions in the out-of-band domain - (Question ITU-R 211/1)
<a href="#">SM.1542</a>	2001-07	Pre-published	Draft new Recommendation ITU-R SM.[PS] - The protection of passive services from unwanted emissions - (Question ITU-R 211/1)

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## Satellite news gathering

<a href="#">SNG.722</a>	1992-03	In force	Uniform technical standards (analogue) for Satellite News Gathering (SNG)
<a href="#">SNG.770</a>	1994-09	In force	Uniform operational procedures for Satellite News Gathering (SNG)
<a href="#">SNG.771</a>	1993-04	In force	Auxiliary coordination satellite circuits for SNG terminals
<a href="#">SNG.1007</a>	1995-10	In force	Uniform technical standards (digital) for Satellite News Gathering (SNG)
<a href="#">SNG.1070</a>	1994-09	In force	An automatic transmitter identification system (ATIS) for analogue-modulation transmissions for Satellite News Gathering and outside broadcasts
<a href="#">SNG.1152</a>	1995-10	In force	Use of digital transmission techniques for Satellite News Gathering (SNG) (sound)
<a href="#">SNG.1421</a>	1999-11	In force	Common operating parameters to ensure interoperability for transmission of digital television news gathering



**Time signals and frequency standards emissions**

<a href="#">TF.374</a>	1999-04	In force	Precise frequency and time-signal transmissions
<a href="#">TF.375</a>	1982-07	Withdrawn	Standard-frequency and time-signal emissions in additional frequency bands
<a href="#">TF.376</a>	1966-07	Withdrawn	Avoidance of external interference with emissions of the standard-frequency service in the bands allocated to that service
<a href="#">TF.457</a>	1997-10	In force	Use of the modified Julian date by the standard-frequency and time-signal services
<a href="#">TF.458</a>	1998-02	In force	International comparisons of atomic time scales
<a href="#">TF.460</a>	1997-10	In force	Standard-frequency and time-signal emissions
<a href="#">TF.485</a>	1990-06	Withdrawn	Use of time scales in the field of standard-frequency and time services
<a href="#">TF.486</a>	1998-02	In force	Use of UTC frequency as reference in standard frequency and time signal emissions
<a href="#">TF.535</a>	1998-02	In force	Use of the term UTC
<a href="#">TF.536</a>	1998-02	In force	Time-scale notations
<a href="#">TF.537</a>	1978-07	Withdrawn	Reduction of mutual interference between emissions of the standard-frequency and time-signal service on the allocated frequencies in bands 6 and 7
<a href="#">TF.538</a>	1994-03	In force	Measures for random instabilities in frequency and time (phase)
<a href="#">TF.582</a>	1998-02	In force	Time and frequency reference signal dissemination and coordination using satellite methods
<a href="#">TF.583</a>	2001-05	Pre-published	Draft rev. of Recommendation ITU-R TF.583-4 - Time codes - (Question ITU-R 110/7)
<a href="#">TF.685</a>	1990-06	Withdrawn	International synchronization of UTC time scale
<a href="#">TF.686</a>	1997-10	In force	Glossary
<a href="#">TF.767</a>	2001-03	In force	Use of global navigation satellite systems for high-accuracy time transfer
<a href="#">TF.768</a>	2001-05	Pre-published	Draft rev. of Recommendation ITU-R TF.768-3 - Standard frequencies and time signals - (Question ITU-R 106/7)
<a href="#">TF.1010</a>	1997-10	In force	Relativistic effects in a coordinate time system in the vicinity of the Earth
<a href="#">TF.1011</a>	1997-10	In force	Systems, techniques and services for time and frequency transfer
<a href="#">TF.1153</a>	1997-06	In force	The operational use of two-way satellite time and frequency transfer employing PN codes



## Vocabulary and related subjects

<a href="#">V.430</a>	1990-06	In force	Use of the international system of units (SI)
<a href="#">V.431</a>	2000-05	Pre-published	Draft rev. of Rec. V.431-6 - Nomenclature of the frequency and wavelength bands used in telecommunications
<a href="#">V.461</a>	1993-04	In force	Graphical symbols and rules for the preparation of documentation in telecommunications
<a href="#">V.573</a>	2000-05	Pre-published	Draft rev. of Rec. V.573-3 - Radiocommunication vocabulary
<a href="#">V.574</a>	2000-05	Pre-published	Draft rev. of Rec. V.574-3 - Use of the decibel and the neper in telecommunications
<a href="#">V.607</a>	2000-05	Pre-published	Draft rev. of Rec. V.607-2 - Terms and symbols for information quantities in telecommunications
<a href="#">V.608</a>	1993-04	In force	Letter symbols for telecommunications
<a href="#">V.662</a>	2000-05	Pre-published	Draft rev. of Rec. V.662-2 - Terms and definitions
<a href="#">V.663</a>	1990-06	In force	Use of certain terms linked with physical quantities
<a href="#">V.664</a>	1986-07	Withdrawn	Adoption of the CCITT Specification and Description Language (SDL)
<a href="#">V.665</a>	2000-05	Pre-published	Draft rev. of Rec. V.665-1 - Traffic intensity unit
<a href="#">V.666</a>	1993-04	In force	Abbreviations and initials used in telecommunications