List of ITU-R Recommendations 2014 Edition 1

Number	Approval d	ate Title	Observation	Status
Series BO	Satellite o	delivery		
BO.1776-1	2012-01	Maximum power flux-density for the broadcasting-satellite service in the band 21.4-22.0 GHz in Regions 1 and 3		In force
BO.1659-1	2012-01	Mitigation techniques for rain attenuation for broadcasting-satellite service systems in frequency bands between 17.3 GHz and 42.5		In force
BO.1516-1	2012-01	Digital multiprogramme television systems for use by satellites operating in the 11/12 GHz frequency range		In force
BO.1900-0	2012-01	Reference receive earth station antenna pattern for the broadcasting-satellite service in the band 21.4-22 GHz in Regions 1 and 3		In force
BO.1898-1	2012-12	Power flux-density value required for the protection of receiving earth stations in the broadcasting-satellite service in Regions 1 and 3 from emissions by a station in the fixed and/or mobile services in the band 21.4-22 GHz		In force
BO.566-3	1990-06	Terminology relating to the use of space communication techniques for broadcasting	Note - Suppressed on 18/07/00 (CACE/181)	Withdrawn
BO.600-1	1986-07	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		In force
BO.650-2	1992-03	Standards for conventional television systems for satellite broadcasting in the channels defined by Appendix 30 of the Radio Regulations		In force
BO.651-0	1986-07	Digital PCM coding for the emission of high- quality sound signals in satellite broadcasting (15 kHz nominal bandwidth)		In force
BO.652-1	1992-03	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		In force
BO.712-1	1992-03	High-quality sound/data standards for the broadcasting-satellite service in the 12 GHz band		In force
BO.786-0	1992-03	MUSE system for HDTV broadcasting-satellite services	Note - Suppressed on 20/12/10 (CACE/520)	Withdrawn
BO.787-0	1992-03	MAC/packet based system for HDTV broadcasting-satellite services	Note – Suppressed on 14/02/2007 (CACE/412)	Withdrawn
BO.788-1	1994-08	Coding rate for virtually transparent studio quality HDTV emissions in the broadcasting-satellite service	Note – Suppressed on 14/02/2007 (CACE/412)	Withdrawn

Number	Approval d	ate Title	Observation	Status
BO.789-2	1995-10	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		In force
BO.790-0	1992-03	Characteristics of receiving equipment and calculation of receiver figure-of-merit (G/T) for the broadcasting-satellite service		In force
BO.791-0	1992-03	Choice of polarization for the broadcasting- satellite service		In force
BO.792-0	1992-03	Interference protection ratios for the broadcasting-satellite service (television) in the 12 GHz band		In force
BO.793-0	1992-03	Partitioning of noise between feeder links for the broadcasting-satellite service (BSS) and BSS downlinks		In force
BO.794-0	1992-03	Techniques for minimizing the impact on the overall BSS system performance due to rain along the feeder-link path		In force
BO.795-0	1992-03	Techniques for alleviating mutual interference between feeder links to the BSS		In force
BO.1130-4	2001-04	Systems 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		In force
BO.1211-0	1995-10	Digital multi-programme emission systems for television, sound and data services for satellites operating in the 11/12 GHz frequency range	Note – Suppressed on 14/02/2007 (CACE/412)	Withdrawr
BO.1212-0	1995-10	Calculation of total interference between geostationary-satellite networks in the broadcasting-satellite service		In force
BO.1213-1	2005-11	Reference receiving Earth station antenna pattern for the broadcasting-satellite service in the 11.7-12.75 GHz band		In force
BO.1293-2	2002-04	Protection masks and associated calculation methods for interference into broadcast-satellite systems involving digital emissions		In force
BO.1294-0	1997-10	Common functional requirements for the reception of digital multiprogramme television emissions by satellites operating in the 11/12 GHz frequency range	Note - Withdrawn on 03/05/2001 (CACE/215) - This Recommendation has been replaced by Rec. ITU-R BO.1516	Withdrawr
BO.1295-0	1997-10	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		In force

Number	Approval dat	re Title	Observation	Status
BO.1296-0	1997-10	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		In force
BO.1297-0	1997-10	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		In force
BO.1373-2	2005-07	Use of broadcasting-satellite service assignments and of the associated feeder link assignments for fixed-satellite service transmissions in bands subject to Appendices 30 and 30A of the Radio Regulations		In force
BO.1383-0	1998-12	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		In force
BO.1408-1	2002-04	Transmission system for advanced multimedia services provided by integrated services digital broadcasting in a broadcasting-satellite channel		In force
BO.1443-2	2006-05	Reference BSS earth station antenna patterns for use in interference assessment involving non-GSO satellites in frequency bands covered by RR Appendix 30		In force
BO.1444-0	2000-03	Protection of the BSS in the 12 GHz band and associated feeder links in the 17 GHz band from interference caused by non-GSO FSS systems		In force
BO.1445-0	2000-03	Improved patterns for fast roll-off satellite transmit antennas of the Regions 1 and 3 BSS plans of RR Appendix S30		In force
BO.1503-1	2005-04	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 22 of the Radio Regulations	Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
BO.1504-0	2000-07	Effective utilization of spectrum assigned to the broadcasting-satellite service (sound)		In force
BO.1505-0	2000-07	Coordination procedure for assignments of space operation service in the guardbands of Appendices S30 and S30A Plans of the Radio Regulations	Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
BO.1506-0	2000-07	A methodology to evaluate the impact of solar interference on GSO BSS link performance		In force
BO.1517-0	2001-04	Equivalent power flux-density limits, epfddown, to protect the broadcasting-satellite service in the 12 GHz band from interference caused by non-geostationary fixed-satellite service systems		In force

Number	Approval dat	re Title	Observation	Status
BO.1597-0	2002-10	Methodology for the calculation of the worst- case interference levels between non- geostationary broadcasting-satellite service (sound) systems using highly-elliptical orbit and geostationary orbit satellite networks operating in the band 2 630-2 655 MHz		In force
BO.1658-0	2003-12	Continuous curves of epfddown versus the geostationary broadcasting-satellite service Earth station antenna diameter to indicate the protection afforded by systems complying with the limits of antennas with diameters other than those in Article 22 of the Radio Regulations		In force
BO.1696-0	2005-02	Methodologies for determining the availability performance for digital multi-programme BSS systems, and their associated feeder links operating in the planned bands		In force
BO.1697-0	2005-02	Power flux-density values in the band 11.7-12.7 GHz and associated calculation methodology which may be used for bilateral coordination when the power flux-density values in Section 3 of Annex 1 to Appendix 30 or Annex 4 to Appendix 30 of the Radio Regulations are exceeded		In force
BO.1724-1	2007-01	Interactive satellite broadcasting systems (television, sound and data)		In force
BO.1773-0	2006-07	Criterion to assess the impact of interference to the broadcasting-satellite service from emissions of devices without a corresponding frequency allocation in the Radio Regulations, that produce fundamental emissions in the frequency bands allocated to the broadcasting satellite service		In force
BO.1774-1	2007-04	Use of satellite and terrestrial broadcast infrastructures for public warning, disaster mitigation and relief	Note - Identical to Rec. ITU-R BT.1774-1	In force
BO.1784-0	2007-01	Digital satellite broadcasting system with flexible configuration (television, sound and data)		In force
BO.1785-0	2007-04	Intra-service sharing criteria for GSO BSS systems in the band 21.4-22.0 GHz in Regions 1 and 3		In force
BO.1834-0	2007-12	Coordination between geostationary-satellite orbit fixed-satellite service networks and broadcasting-satellite service networks in the band 17.3-17.8 GHz and among the broadcasting-satellite service and associated feeder-link networks serving Region 2 in the bands 17.3-17.8 GHz and 24.75-25.25 GHz		In force
BO.1835-0	2007-12	Sharing between broadcasting-satellite service (BSS) networks using the Region 2 17.3-17.8 GHz BSS allocation and feeder links of BSS networks using the worldwide 17.3-17.8 GHz fixed-satellite service (FSS) (Earth-to-space) allocation		In force

Number	Approval da	te Title	Observation	Status
Series BR	Recording	for production, archival and play-out; film	for television	
BR.1384-2	2011-03	Parameters for international exchange of multi- channel sound recordings with or without accompanying picture		In force
BR.265-9	2004-02	Operating practices for the international exchange of programmes on film for television use		In force
BR.407-4	1990-06	International exchange of sound programmes recorded in analogue form	Note - Withdrawn on 03/05/2001 (CACE/215) - This Recommendation has been replaced by Rec. ITU-R BR.408-7	Withdrawn
BR.408-7	2001-04	International exchange of sound programmes recorded in analogue form	Note - Withdrawn on 27/01/2012 (CACE/558) - This Recommendation replaces Rec. ITU-R BR.407-4	Withdrawn
BR.469-7	2002-06	Analogue composite television tape recording	Note - Withdrawn on 27/01/2012 (CACE/558) - Approved in accordance with Resolution ITU-R 45	Withdrawr
BR.501-2	1990-06	Appraisal of programmes on colour film intended for television use	Note - Withdrawn on 24/10/97 (RA-97)	Withdrawn
BR.602-5	2004-02	Exchange of standard definition television recordings for programme content evaluation	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.648-0	1986-07	Digital recording of audio signals	Note - Withdrawn on 03/05/2001 (CACE/215) - This Recommendation has been replaced by Rec. ITU-R BR.777-3	Withdrawn
BR.649-1	1992-03	Measuring methods for analogue audio tape recordings	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.657-2	1992-03	Digital television tape recording	Note - Suppressed on 30/09/09 (CACE/489)	Withdrawn
BR.713-1	1997-10	Recording of high definition television (HDTV) images on film	Note - Withdrawn on 06/03/00 (CACE/176)	Withdrawn
BR.714-2	2001-12	International exchange of programmes produced by means of high-definition television	Approved in accordance with Resolution ITU-R 45	In force
BR.715-1	2001-04	International exchange of analogue electronic news gathering recordings	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawr
BR.716-2	1994-08	Area of 35 mm motion picture film used in HDTV telecines	Note - Withdrawn on 24/10/97 (RA-97) - This Recommendation has been replaced by Rec. ITU-R BR.1374	Withdrawr

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BR.777-3	2001-04	International exchange of two-channel digital audio recordings	Note - Withdrawn on 27/01/2012 (CACE/558) - This Recommendation replaces Rec. ITU-R BR.648	Withdrawn
BR.778-1	1994-08	Analogue component television tape recording. Standards for the international exchange of television programmes on magnetic tapes	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.779-2	2003-01	Operating practices for digital television recording		In force
BR.780-2	2005-04	Time and control code standards, for production applications in order to facilitate the international exchange of television programmes on magnetic tapes		In force
BR.781-1	1994-08	HDTV telecine colour balance for film programmes	Note - Withdrawn on 24/10/97 (RA-97)	Withdrawn
BR.782-1	1994-08	Area of 35 mm print film used for 4:3 conventional television systems	Note - Withdrawn on 24/10/97 (RA-97) - This Recommendation has been replaced by Rec. ITU-R BR.1374	Withdrawn
BR.783-1	1994-08	Area of 35 mm release print film used for conventional 16:9 television systems	Note - Withdrawn on 24/10/97 (RA-97) - This Recommendation has been replaced by Rec. ITU-R BR.1374	Withdrawn
BR.784-0	1992-03	Exchange of television programmes on 16-mm film with two synchronous sound tracks on a separate support	Note - Withdrawn on 24/10/97 (RA-97)	Withdrawn
BR.785-1	2001-04	The release of programmes in a multiple release media environment		In force
BR.1214-0	1995-10	Studio recording of sound-broadcasting programmes on magnetic tape for release on multi-programme digital channels	Note - Withdrawn on 03/05/2001 (CACE/215) - This Recommendation has been replaced by Rec. ITU-R BR.1216-1	Withdrawn
BR.1215-0	1995-10	Handling and storage of television and sound recordings on magnetic tape	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1216-1	2001-04	Recording of television or sound programmes on magnetic tape in the case when several programmes are intended for broadcasting in the same digital multiplex	Note - Withdrawn on 27/01/2012 (CACE/558) - This Recommendation replaces Rec. ITU-R BR.1214	Withdrawn
BR.1217-0	1995-10	Recording of pan-scan data of 16:9 recordings within the user bits of the longitudinal time code	Note - Withdrawn on 24/10/97 (RA-97)	Withdrawn
BR.1218-1	2001-04	Recording of ancillary data on digital recorders for consumer use	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1219-0	1995-10	Handling and storage of cinematographic film recording	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn

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BR.1220-1	2001-04	Requirements for the generation, recording and presentation of high definition television programmes intended for release in the "electronic cinema"	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1287-1	2001-04	Broadcasting of programmes on film with multichannel sound	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1288-0	1997-10	Scanned area of 16 mm and 35 mm release film used for 4:3 conventional television systems	Note - Withdrawn on 30/11/98 (CACE/136) - This Recommendation has been replaced by Rec. ITU-R BR.1374	Withdrawn
BR.1289-0	1997-10	Scanned area of 16 mm and 35 mm release film used for 16:9 conventional television systems	Note - Withdrawn on 30/11/98 (CACE/136) - This Recommendation has been replaced by Rec. ITU-R BR.1374	Withdrawn
BR.1290-0	1997-10	Use of television disk recording in broadcasters' operations	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1291-0	1997-10	Scanned area of Super 16 mm film for production and post-production in 16:9 television systems	Note - Withdrawn on 30/11/98 (CACE/136) - This Recommendation has been replaced by Rec. ITU-R BR.1374	Withdrawn
BR.1292-0	1997-10	Engineering guidelines for video recording in standard definition television production and post-production chains	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1351-0	1998-02	Requirements for the application of digital technology to audio archiving systems for radio broadcasting		In force
BR.1352-3	2007-12	File format for the exchange of audio programme materials with metadata on information technology media		In force
BR.1353-0	1998-02	Recording of data in the user bits of the longitudinal time code	Note - Withdrawn on 03/05/01 (CACE/215)	Withdrawn
BR.1354-0	1998-02	Transfer of film programmes to video tape for programme exchange and for preservation of endangered films	Note - Withdrawn on 06/03/00 (CACE/176)	Withdrawn
BR.1355-2	2004-09	Viewing conditions for the assessment of telecine transfers of film images on a television display	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1356-0	1998-02	User requirements for application of compression in mainstream standard definition television production and archival		In force
BR.1357-0	1998-02	Use of wrappers and metadata in television production	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BR.1374-1	2001-06	Scanned area dimensions from 16 mm and 35 mm cinematographic film used in television	Approved in accordance with Resolution ITU-R 45	In force
BR.1375-3	2007-01	High-definition television (HDTV) digital recording formats		In force

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BR.1376-0	1998-11	Compression families for use in recording and networked standard definition television production	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1385-0	1998-12	Exchange of sound programmes on recordable compact discs (CD-R)		In force
BR.1422-0	1999-12	Operational practices for television use of film soundtracks encoded with noise reduction and matrix surround	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1440-0	2000-03	16:9 video images transferred to 35 mm film for optical projection	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1441-0	2000-03	Compromise scanned area dimensions for television from 35 mm wide-screen films		In force
BR.1442-0	2000-03	User's requirements for digital HDTV tape cassette recorders	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BR.1515-0	2001-04	International exchange of digital electronic news gathering recordings		In force
BR.1530-0	2001-06	Guide to Recommendations on the use of film in television	Approved in accordance with Resolution ITU-R 45	In force
BR.1531-0	2001-06	Exchange of sound programmes for broadcast use recorded as broadcast wave format files on compact and digital versatile recordable data disks	Approved in accordance with Resolution ITU-R 45	In force
BR.1574-0	2002-06	Archival of sound-program material in the form of files recorded on information technology media	Approved in accordance with Resolution ITU-R 45	In force
BR.1575-0	2002-06	Guide to the selection of digital video tape recording formats for studio production in the standard definition television (SDTV) environment based on production requirements	Note - Withdrawn on 27/01/2012 (CACE/558) - Approved in accordance with Resolution ITU-R 45	Withdrawn
BR.1684-0	2004-09	Recording of 5.1-channel audio programmes on video tape recorders		In force
BR.1694-0	2004-09	Videocassette recording formats for international exchange of large-screen digital imagery programmes intended for presentation in a theatrical environment		In force
BR.1695-0	2004-09	Recording formats for international exchange for the evaluation of high-definition television programmes		In force
BR.1725-0	2005-04	Handling, restoration and storage of programme material that broadcasters have archived in the form of cinematographic film		In force
BR.1733-0	2005-08	Broadcasters' use of digital television recording formats designed for semi-professional or consumer applications		In force

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Series BS	Broadcas	ting service (sound)		
BS.2019-0	2012-08	Audio system for the production and international exchange of 3DTV programmes for broadcasting		In force
BS.1114-7	2011-12	Systems for terrestrial digital sound broadcasting to vehicular, portable and fixed receivers in the frequency range 30-3 000 MHz		In force
BS.1195-1	2013-01	Transmitting antenna characteristics at VHF and UHF		In force
BS.1196-3	2012-08	Audio coding for digital broadcasting		In force
BS.1348-2	2011-12	Service requirements for digital sound broadcasting at frequencies below 30 MHz		In force
BS.1514-2	2011-03	System for digital sound broadcasting in the broadcasting bands below 30 MHz		In force
BS.775-3	2012-08	Multichannel stereophonic sound system with and without accompanying picture		In force
BS.1909-0	2012-01	Performance requirements for an advanced multichannel stereophonic sound system for use with or without accompanying picture		In force
BS.1548-4	2013-01	User requirements for audio coding systems for digital broadcasting		In force
BS.647-3	2011-03	A digital audio interface for broadcasting studios		In force
BS.1771-1	2012-01	Requirements for loudness and true-peak indicating meters		In force
BS.1660-6	2012-08	Technical basis for planning of terrestrial digital sound broadcasting in the VHF band		In force
BS.1770-3	2012-08	Algorithms to measure audio programme loudness and true-peak audio level		In force
BS.1864-0	2010-03	Operational practices for loudness in the international exchange of digital television programmes		In force
BS.2032-0	2013-01	Synchronization of digital audio sample clock to video references		In force
BS.1873-0	2010-03	Serial multichannel audio digital interface for broadcasting studios		In force
BS.774-3	2011-12	Service requirements for digital sound broadcasting to vehicular, portable and fixed receivers using terrestrial transmitters in the VHF/UHF bands		In force
BS.48-2	1986-07	Choice of frequency for sound broadcasting in the Tropical Zone		In force
BS.80-3	1990-06	Transmitting antennas in HF broadcasting		In force
BS.139-3	1990-06	Transmitting antennas for sound broadcasting in the Tropical Zone		In force
BS.215-2	1982-07	Maximum transmitter powers for broadcasting in the Tropical Zone		In force

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BS.216-2	1982-07	Protection ratio for sound broadcasting in the Tropical Zone		In force
BS.411-4	1990-06	Fading allowances in HF broadcasting		In force
BS.412-9	1998-12	Planning standards for terrestrial FM sound broadcasting at VHF		In force
BS.415-2	1986-07	Minimum performance specifications for low- cost sound-broadcasting receivers		In force
BS.450-3	2001-11	Transmission standards for FM sound broadcasting at VHF		In force
BS.467-0	1970-07	Technical characteristics to be checked for frequency-modulation stereophonic broadcasting		In force
BS.468-4	1986-07	Measurement of audio-frequency noise voltage level in sound broadcasting		In force
BS.498-2	1990-06	Ionospheric cross-modulation in the LF and MF broadcasting bands		In force
BS.559-2	1990-06	Objective measurement of radio-frequency protection ratios in LF, MF and HF broadcasting		In force
BS.560-4	1997-10	Radio-frequency protection ratios in LF, MF and HF broadcasting		In force
BS.561-2	1986-07	Definitions of radiation in LF, MF and HF broadcasting bands		In force
BS.562-3	1990-06	Subjective assessment of sound quality	Note - Withdrawn on 6/10/04 (CACE/328) - This Recommendation has been replaced by Rec. ITU-R BS.1284	Withdrawn
BS.597-1	1986-07	Channel spacing for sound broadcasting in band 7 (HF)		In force
BS.598-1	1990-06	Factors influencing the limits of amplitude- modulation sound-broadcasting coverage in band 6 (MF)		In force
BS.599-0	1982-07	Directivity of antennas for the reception of sound broadcasting in band 8 (VHF)		In force
BS.638-0	1986-07	Terms and definitions used in frequency planning for sound broadcasting		In force
BS.639-0	1986-07	Necessary bandwidth of emission in LF, MF and HF broadcasting		In force
BS.640-3	1997-10	Single sideband (SSB) system for HF broadcasting	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BS.641-0	1986-07	Determination of radio-frequency protection ratios for frequency-modulated sound broadcasting		In force
BS.642-1	1990-06	Limiters for high-quality sound-programme signals		In force
BS.643-3	2011-05	Radio data system for automatic tuning and other applications in FM radio receivers for use with pilot-tone system		In force

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BS.644-1	1990-06	Audio quality parameters for the performance of a high-quality sound-programme transmission chain		In force
BS.645-2	1992-03	Test signals and metering to be used on international sound programme connections		In force
BS.646-1	1992-03	Source encoding for digital sound signals in broadcasting studios		In force
BS.702-1	1992-03	Synchronization and multiple frequency use per programme in HF broadcasting		In force
BS.703-0	1990-06	Characteristics of AM sound broadcasting reference receivers for planning purposes		In force
BS.704-0	1990-06	Characteristics of FM sound broadcasting reference receivers for planning purposes		In force
BS.705-1	1995-10	HF transmitting and receiving antennas characteristics and diagrams		In force
BS.706-2	1998-02	Data system in monophonic AM sound broadcasting (AMDS)		In force
BS.707-5	2005-08	Transmission of multisound in terrestrial television systems PAL B, B1, D1, G, H and I, and SECAM D, K, K1 and L		In force
BS.708-0	1990-06	Determination of the electro-acoustical properties of studio monitor headphones		In force
BS.773-0	1992-03	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	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BS.776-0	1992-03	Format for user data channel of the digital audio interface	Note – Suppressed on 14/02/2007 (CACE/412)	Withdrawn
BS.1115-1	2005-04	Low bit-rate audio coding	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BS.1116-1	1997-10	Methods for the subjective assessment of small impairments in audio systems including multichannel sound systems		In force
BS.1194-2	1998-12	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		In force
BS.1283-1	2003-12	A guide to ITU-R Recommendations for subjective assessment of sound quality		In force
BS.1284-1	2003-12	General methods for the subjective assessment of sound quality	Note - This Recommendation replaces Rec. ITU-R BS.562-3	In force
BS.1285-0	1997-10	Pre-selection methods for the subjective assessment of small impairments in audio systems		In force
BS.1286-0	1997-10	Methods for the subjective assessment of audio systems with accompanying picture		In force

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BS.1349-0	1998-02	Implementation of digital sound broadcasting to vehicular, portable and fixed receivers using terrestrial transmitters in the LF, MF and HF bands		In force
BS.1350-1	1998-12	Systems requirements for multiplexing (FM) sound broadcasting with a sub-carrier data channel having a relatively large transmission capacity for stationary and mobile reception		In force
BS.1386-1	2001-04	LF and MF transmitting antennas characteristics and diagrams		In force
BS.1387-1	2001-11	Method for objective measurements of perceived audio quality	A CD ROM associated with this Recommendation (which contains the WAV-files referenced in section 7.3) can be purchased separately from the ITU Sales department (Email: sales@itu.int).	In force
BS.1423-0	1999-12	Guidelines for producing multichannel soundtracks using surround matrix techniques		In force
BS.1534-1	2003-01	Method for the subjective assessment of intermediate quality levels of coding systems		In force
BS.1547-0	2001-11	Terrestrial component of systems for hybrid satellite-terrestrial digital sound broadcasting to vehicular, portable and fixed receivers in the frequency range 1 400-2 700 MHz		In force
BS.1596-0	2002-10	Guide to ITU-R Recommendations for broadcast sound production		In force
BS.1615-1	2011-05	"Planning parameters" for digital sound broadcasting at frequencies below 30 MHz		In force
BS.1657-0	2003-08	Procedure for the performance test of automated audio identification systems	Approved in accordance with Resolution ITU-R 45	In force
BS.1661-0	2003-12	'Signal-on-the-air' specifications of the digital system described in Annex 1 to Recommendation ITU-R BS.1514 for digital sound broadcasting in the broadcasting bands below 30 MHz		In force
BS.1679-0	2004-03	Subjective assessment of the quality of audio in large screen digital imagery applications intended for presentation in a theatrical environment		In force
BS.1688-0	2004-09	Baseband sound system and audio source- coding at delivery interfaces of large-screen digital imagery applications		In force
BS.1693-0	2004-09	Procedure for the performance test of automated query-by-humming systems		In force

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BS.1698-0	2005-02	Evaluating fields from terrestrial broadcasting transmitting systems operating in any frequency band for assessing exposure to non-ionizing radiation		In force
BS.1726-0	2005-04	Signal level of digital audio accompanying television in international programme exchange		In force
BS.1734-0	2005-08	Basic performance requirements for the sound components of large-screen digital imagery applications for presentation in a theatrical environment		In force
BS.1738-0	2007-09	Identification and ordering of multiple audio channels carried on international contribution circuits		In force
BS.1786-0	2007-04	Criterion to assess the impact of interference to the terrestrial broadcasting service (BS)	Note - Identical to Rec. ITU-R BT.1786	In force
BS.1892-0	2011-05	Requirements for enhanced multimedia services for digital terrestrial broadcasting in VHF Bands I and II		In force
BS.1894-0	2011-05	Digital radio broadcast service, captioned radio		In force
BS.1895-0	2011-05	Protection criteria for terrestrial broadcasting systems	Note - Identical to Rec. ITU-R BT.1895	In force

Number	Approval da	nte Title	Observation	Status
Series BT	Broadcast	ing service (television)		
BT.1728-1	2010-03	Guidance on the use of flat panel displays in television production and postproduction		In force
BT.1735-1	2012-08	Methods for objective reception quality assessment of digital terrestrial television broadcasting signals of System B specified in Recommendation ITU-R BT.1306		In force
BT.1833-2	2012-08	Broadcasting of multimedia and data applications for mobile reception by handheld receivers		In force
BT.1845-1	2010-03	Guidelines on metrics to be used when tailoring television programmes to broadcasting applications at various image quality levels, display sizes and aspect ratios		In force
BT.2035-0	2013-07	A reference viewing environment for evaluation of HDTV program material or completed programmes		In force
BT.1692-1	2009-09	Optimization of the quality of colour reproduction in digital television		In force
BT.2033-0	2013-01	Planning criteria, including protection ratios, for second generation of digital terrestrial television broadcasting systems in the VHF/UHF bands		In force
BT.2037-0	2013-07	Draft new Recommendation ITU-R BT.[IBB-GENERAL] - General requirements for broadcast-oriented applications of integrated broadcast-broadband systems and their envisaged utilization		In force
BT.1366-2	2009-01	Transmission of time code and control code in the ancillary data space of a digital television stream according to Recommendations ITU-R BT.656, ITU-R BT.799 and ITU-R BT.1120		In force
BT.1122-2	2011-03	User requirements for codecs for emission and secondary distribution systems for SDTV and HDTV		In force
BT.1199-1	2010-03	Use of bit-rate reduction in the HDTV studio environment		In force
BT.1206-1	2013-01	Spectrum limit masks for digital terrestrial television broadcasting		In force
BT.1210-4	2012-01	Test materials to be used in assessment of picture quality		In force
BT.1299-1	2010-03	The basic elements of a worldwide common family of systems for digital terrestrial television broadcasting		In force
BT.1722-2	2011-03	Harmonization of the instruction set for the execution engine for interactive TV applications		In force
BT.1365-1	2010-03	24-bit digital audio format as ancillary data signals in HDTV serial interfaces		In force

Number	Approval da	te Title	Observation	Status
BT.1699-2	2013-01	Harmonization of declarative application formats for interactive TV		In force
BT.1368-10	2013-01	Planning criteria, including protection ratios, for digital terrestrial television services in the VHF/UHF bands		In force
BT.1563-1	2011-03	Data encoding protocol using key-length-value		In force
BT.1614-1	2012-01	Payload identification data structure for digital television interfaces		In force
BT.1618-1	2011-03	Data structure for DV-based audio, data and compressed video at data rates of 25 and 50 Mbit/s		In force
BT.1620-1	2010-03	Data structure for DV-based audio, data and compressed video at a data rate of 100 Mbit/s		In force
BT.1691-1	2009-09	Adaptive image quality control in digital television systems		In force
BT.1364-2	2010-03	Format of ancillary data signals carried in digital component studio interfaces		In force
BT.1866-0	2010-03	Objective perceptual video quality measurement techniques for broadcasting applications using low definition television in the presence of a full reference signal		In force
BT.2000-0	2012-01	Use of large screen digital imagery Recommendations in video information systems applications		In force
BT.2016-1	2013-01	Error-correction, data framing, modulation and emission methods for terrestrial multimedia broadcasting for mobile reception using handheld receivers in VHF/UHF bands		In force
BT.2020-0	2012-08	Parameter values for ultra-high definition television systems for production and international programme exchange		In force
BT.1907-0	2012-01	Objective perceptual video quality measurement techniques for broadcasting applications using HDTV in the presence of a full reference signal		In force
BT.1120-8	2012-01	Digital interfaces for HDTV studio signals		In force
BT.1889-0	2011-03	Common application environment for interactive digital broadcasting services		In force
BT.1888-1	2011-09	Basic elements of file-based broadcasting systems		In force
BT.1887-0	2011-03	Carriage of IP packets in MPEG 2 transport streams in multimedia broadcasting		In force
BT.1886-0	2011-03	Reference electro-optical transfer function for flat panel displays used in HDTV studio production		In force

Number	Approval da	ate Title	Observation	Status
BT.1885-0	2011-03	Objective perceptual video quality measurement techniques for standard definition digital broadcast television in the presence of a reduced bandwidth reference		In force
BT.2021-0	2012-08	Subjective methods for the assessment of stereoscopic 3DTV systems		In force
BT.2026-0	2012-08	Guidelines on the implementation of systems for in-service objective measurement and monitoring of "perceptual transparency" for the distribution chain of SDTV and HDTV programmes		In force
BT.1846-0	2008-10	Notations for video systems		In force
BT.2025-0	2012-08	1 280 × 720 digital image systems for the production and international exchange of 3DTV programmes for broadcasting		In force
BT.1848-0	2009-05	Safe areas of wide-screen 16:9 aspect ratio digital productions		In force
BT.1852-0	2009-09	Conditional-access systems for digital broadcasting		In force
BT.1865-0	2010-03	Metadata to monitor errors of SDTV and HDTV signals in the broadcasting chain		In force
BT.2022-0	2012-08	General viewing conditions for subjective assessment of quality of SDTV and HDTV television pictures on flat panel displays		In force
BT.1867-0	2010-03	Objective perceptual visual quality measurement techniques for broadcasting applications using low definition television in the presence of a reduced bandwidth reference		In force
BT.1869-0	2010-03	Multiplexing scheme for variable-length packets in digital multimedia broadcasting systems		In force
BT.1872-0	2010-03	User requirements for digital electronic news gathering		In force
BT.1870-0	2010-03	Video coding for digital television broadcasting emission		In force
BT.1871-0	2010-03	User requirements for wireless microphones		In force
BT.2023-0	2012-08	Performance requirements for the production, international exchange and broadcasting of 3DTV Programmes		In force
BT.2024-0	2012-08	HDTV digital image systems for the production and international exchange of 3DTV programmes for broadcasting		In force
BT.1908-0	2012-01	Objective video quality measurement techniques for broadcasting applications using HDTV in the presence of a reduced reference signal		In force
BT.1877-1	2012-08	Error-correction, data framing, modulation and emission methods for second generation of digital terrestrial television broadcasting systems		In force

Number	Approval dat	te Title	Observation	Status
BT.1301-1	2011-03	Data services in digital television broadcasting		In force
BT.601-7	2011-03	Studio encoding parameters of digital television for standard 4:3 and wide screen 16:9 aspect ratios		In force
BT.1305-1	2010-03	Digital audio and auxiliary data as ancillary data signals in interfaces conforming to Recommendations ITU-R BT.656 and ITU-R BT.799		In force
BT.1868-0	2010-03	User requirements for codecs for transmission of television signals through contribution, primary distribution, and SNG networks		In force
BT.500-13	2012-01	Methodology for the subjective assessment of the quality of television pictures		In force
BT.1306-6	2011-12	Error correction, data framing, modulation and emission methods for digital terrestrial television broadcasting		In force
BT.266-1	1992-03	Phase pre-correction of television transmitters	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BT.417-5	2002-10	Minimum field strengths for which protection may be sought in planning an analogue terrestrial television service		In force
BT.419-3	1990-06	Directivity and polarization discrimination of antennas in the reception of television broadcasting		In force
BT.470-7	2005-02	Conventional analogue television systems		In force
BT.471-1	1986-07	Nomenclature and description of colour bar signals		In force
BT.472-3	1990-06	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		In force
BT.565-0	1978-07	Protection ratios for 625-line television against radionavigation transmitters operating in the shared bands between 582 and 606 MHz	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BT.653-3	1998-02	Teletext systems		In force
BT.654-0	1986-07	Subjective quality of television pictures in relation to the main impairments of the analogue composite television signal		In force
BT.655-7	2004-02	Radio-frequency protection ratios for AM vestigial sideband terrestrial television systems interfered with by unwanted analogue vision signals and their associated sound signals		In force
BT.656-5	2007-12	Interface 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		In force

Number	Approval da	ate Title Observation	Status
BT.709-5	2002-04	Parameter values for the HDTV standards for production and international programme exchange	In force
BT.710-4	1998-11	Subjective assessment methods for image quality in high-definition television	In force
BT.711-1	1992-09	Synchronizing reference signals for the component digital studio	In force
BT.796-0	1992-03	Parameters for enhanced compatible coding systems based on 625-line PAL and SECAM 27/01/2012 (CACE/558) television systems	Withdrawn)
BT.797-1	1994-07	Parameters for 4:3 enhanced television systems Note - Withdrawn on that are NTSC-compatible 27/01/2012 (CACE/558)	Withdrawn
BT.798-1	1994-07	Digital television terrestrial broadcasting in the VHF/UHF bands	In force
BT.799-4	2007-12	Interface 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	In force
BT.800-2	1995-10	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)	Withdrawn
BT.801-1	1995-10	Test signals for digitally encoded colour television signals conforming with Recommendations ITU-R BT.601 and ITU-R BT.656 Note - Suppressed on 11/03/11 (CACE/531)	Withdrawn
BT.802-1	1994-07	Test pictures and sequences for subjective assessments of digital codecs conveying signals produced according to Recommendation ITU-R BT.601	In force
BT.803-0	1992-03	The avoidance of interference generated by digital television studio equipment	In force
BT.804-0	1992-03	Characteristics of TV receivers essential for frequency planning with PAL/SECAM/NTSC 27/01/2012 (CACE/558) television systems	Withdrawn)
BT.805-0	1992-03	Assessment of impairment caused to television reception by a wind turbine	In force
BT.806-0	1992-03	Common channel raster for the distribution of D- Note - Withdrawn on MAC, D2-MAC and HD-MAC signals in collective antenna and cable distribution systems	Withdrawn
BT.807-0	1992-03	Reference model for data broadcasting	In force
BT.808-0	1992-03	The broadcasting of time and date information in coded form	In force
BT.809-0	1992-03	Programme delivery control (PDC) system for video recording Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.810-0	1992-03	Conditional-access broadcasting systems	Withdrawn

Number	Approval d	ate Title Observation	Status
BT.811-1	1994-07	The subjective assessment of enhanced PAL and SECAM systems	In force
BT.812-0	1992-03	Subjective assessment of the quality of alphanumeric and graphic pictures in Teletext and similar services	In force
BT.813-0	1992-03	Methods for objective picture quality assessment in relation to impairments from digital coding of television signals	In force
BT.814-2	2007-09	Specifications and alignment procedures for setting of brightness and contrast of displays	In force
BT.815-1	1994-07	Specification of a signal for measurement of the contrast ratio of displays	In force
BT.1117-2	1997-10	Studio format parameters for enhanced 16:9 aspect ratio 625-line television systems (D- and D2-MAC, PALplus, enhanced SECAM) Note - Suppressed on 11/03/11 (CACE/531)	Withdraw
BT.1118-1	1997-10	Enhanced compatible widescreen television Note - Withdrawn on based on conventional television systems 27/01/2012 (CACE/558)	Withdrav
BT.1119-2	1998-02	Wide-screen signalling for broadcasting (Signalling for wide-screen and other enhanced television parameters)	In force
BT.1121-1	1995-10	User requirements for the transmission through contribution and primary distribution networks of digital HDTV signals	Withdrav
BT.1123-0	1994-07	Planning methods for 625-line terrestrial Note - Withdrawn on television in VHF/UHF bands 27/01/2012 (CACE/558)	Withdrav
BT.1124-3	2001-06	Reference signals for ghost cancelling in Approved in accordance analogue television systems with Resolution ITU-R 45	
BT.1125-0	1994-07	Basic objectives for the planning and implementation of digital terrestrial television broadcasting systems	In force
BT.1126-0	1994-07	Data transmission protocols and transmission Note - Suppressed on control scheme for data broadcasting systems 11/03/11 (CACE/531) using a data channel in satellite television broadcasting	Withdrav
BT.1127-0	1994-07	Relative quality requirements of television broadcast systems	In force
BT.1128-2	1997-10	Subjective assessment of conventional television systems	In force
BT.1129-2	1998-02	Subjective assessment of standard definition digital television (SDTV) systems	In force
BT.1195-1	2013-01	Transmitting antenna characteristics at VHF and UHF Note - Identical to Rec. ITU-R BS.1195-1 (see CACE/592)	In force
BT.1197-1	1998-02	Enhanced wide-screen PAL TV transmission Note - Suppressed on system (the PALplus system) 11/03/11 (CACE/531)	Withdrav
BT.1198-0	1995-10	Stereoscopic television based on R-and L-eye two channel signals	In force

Number	Approval dat	e Title	Observation	Status
BT.1200-1	1998-02	Target standard for digital video systems for the studio and for international programme exchange	Note - Suppressed on 03/05/01 (CACE/215)	Withdrawn
BT.1201-1	2004-03	Extremely high resolution imagery		In force
BT.1202-0	1995-10	Displays for future television systems	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BT.1203-1	2007-01	User requirements for generic video bit-rate reduction coding of digital TV signals for an end-to-end television system		In force
BT.1204-0	1995-10	Measuring methods for digital video equipment with analogue input/output	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BT.1205-0	1995-10	User requirements for the quality of baseband SDTV and HDTV signals when transmitted by digital Satellite News Gathering (SNG)	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1207-1	1997-10	Data access methods for digital terrestrial television broadcasting		In force
BT.1208-1	1997-10	Video coding for digital terrestrial television broadcasting	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1209-1	1997-10	Service multiplex methods for digital terrestrial television broadcasting		In force
BT.1298-0	1997-10	Enhanced wide-screen NTSC TV transmission system	Note - Withdrawn on 27/01/2012 (CACE/558)	Withdrawn
BT.1300-3	2005-08	Service multiplex, transport, and identification methods for digital terrestrial television broadcasting		In force
BT.1302-0	1997-10	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)	Note - Suppressed on 19/09/07 (CACE/433)	Withdrawn
BT.1303-0	1997-10	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)	Note - Suppressed on 19/09/07 (CACE/433)	Withdrawn
BT.1304-0	1997-10	Checksum for error detection and status information in interfaces conforming with Recommendations ITU-R BT.656 and ITU-R BT.799		In force
BT.1358-1	2007-09	Studio parameters of 625 and 525 line progressive television systems		In force
BT.1359-1	1998-11	Relative timing of sound and vision for broadcasting		In force
BT.1360-0	1998-02	Capture characteristics for high-definition images	Note - Suppressed on 30/09/09 (CACE/489)	Withdrawn
BT.1361-0	1998-02	Worldwide unified colorimetry and related characteristics of future television and imaging systems		In force

Number	Approval da	ite Title	Observation	Status
BT.1362-0	1998-02	Interfaces for digital component video signals in 525- and 625-line progressive scan television systems	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1363-1	1998-11	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		In force
BT.1367-1	2007-12	Serial digital fibre transmission system for signals conforming to Recommendations ITU-R BT.656, ITU-R BT.799 and ITU-R BT.1120		In force
BT.1369-0	1998-02	Basic principles for a worldwide common family of systems for the provision of interactive television services		In force
BT.1377-0	1998-11	Labelling of video and audio apparatus throughput (processing) delay		In force
BT.1378-0	1998-11	Basic requirements for multimedia-hypermedia broadcasting	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1379-2	2007-09	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		In force
BT.1380-1	2006-07	Standards for bit rate reduction coding systems for SDTV		In force
BT.1381-3	2007-12	Serial digital interface-based transport interface for compressed television signals and packetized data in networked television production based on Recommendation ITU-R BT.656		In force
BT.1382-0	1998-11	Assessment of the picture quality of multi- programme services		In force
BT.1434-0	2000-03	Network independent protocols for interactive systems		In force
BT.1435-0	2000-03	Digital sound and television broadcasting interaction channel through the PSTN/ISDN		In force
BT.1436-0	2000-03	Transmission systems for interactive cable television services	Note - Suppressed on 11/03/11 (CACE/531)	Withdrawn
BT.1437-0	2000-03	User requirements for digital coding for multi- programme television transmission	Note - Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1438-0	2000-03	Subjective assessment of stereoscopic television pictures		In force
BT.1439-1	2006-02	Measurement methods applicable in the analogue television studio and the overall analogue television system		In force
BT.1507-0	2000-10	Interaction channel using digital enhanced cordless telecommunications (DECT) system		In force
BT.1508-0	2000-10	Interaction channel using global system for mobile communications (GSM)		In force

Number	Approval dat	e Title	Observation	Status
BT.1532-0	2001-06	The MPEG-2 recoding data set for the preservation of picture quality in cascade of MPEG-2 codecs	Approved in accordance with Resolution ITU-R 45/Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1533-0	2001-06	Editing information for MPEG-2 video elementary streams for applications in television production	Approved in accordance with Resolution ITU-R 45/Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1543-0	2001-08	1 280 720, 16:9 progressively-captured image format for production and international programme exchange in the 60 Hz environment		In force
BT.1549-0	2001-11	Data link protocol for interaction channel		In force
BT.1550-0	2001-12	MPEG-2 recoding data set for the preservation of picture quality in cascade of MPEG-2 codecs compressed stream format	Approved in accordance with Resolution ITU-R 45/Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1551-0	2001-12	Transport of MPEG-2 recoding data set as ancillary data packets	Approved in accordance with Resolution ITU-R 45/Suppressed on 31/03/10 (CACE/505)	Withdrawn
BT.1562-0	2002-04	Consistency in the alignment of displays in production rooms and control rooms		In force
BT.1564-0	2002-04	Interaction channel using local multipoint distribution systems		In force
BT.1576-0	2002-06	Transport of alternate source formats through Recommendation ITU-R BT.1120	Approved in accordance with Resolution ITU-R 45/ Suppressed on 11/03/11 (CACE/531)	Withdrawn
BT.1577-0		Serial digital interface-based transport interface for compressed television signals in networked television production based on Recommendation ITU-R BT.1120	Approved in accordance with Resolution ITU-R 45	In force
BT.1578-0	2002-06	Content package format, elements, and metadata definition for applications in television production utilizing interfaces based on Recommendation ITU-R BT.1381	Approved in accordance with Resolution ITU-R 45/Suppressed on 11/03/11 (CACE/531)	Withdrawn
BT.1616-0	2003-05	Data stream format for the exchange of DV- based audio, data and compressed video over interfaces complying with Recommendation ITU- R BT.1381	Note - Suppressed on 11/03/11 (CACE/531)	Withdrawn
BT.1617-0		Format for transmission of DV compressed video, audio and data over interfaces complying with Recommendation ITU-R BT.1381	Note - Suppressed on 11/03/11 (CACE/531)	Withdrawn
BT.1619-0		Vertical ancillary data mapping for serial digital interface		In force
BT.1662-0	2003-12	General reference chain and management of post-processing headroom for programme essence in large screen digital imagery applications		In force

Number	Approval da	ite Title	Observation	Status
BT.1663-0	2003-12	Expert viewing methods to assess the quality of systems for the digital display of large screen digital imagery in theatres		In force
BT.1664-0	2003-12	Representation of various image aspect ratios into the image of large screen digital imagery applications that use a 16:9 raster		In force
BT.1665-0	2003-12	Considerations for colour encoding and spatial resolution for large screen digital imagery display		In force
BT.1666-0	2003-12	User requirements for large screen digital imagery applications intended for presentation in a theatrical environment		In force
BT.1667-0	2003-12	Terrestrial return channel for interactive broadcasting services operating in the VHF/UHF broadcast band based on Recommendation ITU-R BT.1306		In force
BT.1674-0	2004-02	Metadata requirements for production and post- production in broadcasting		In force
BT.1675-0	2004-02	System design and operational practices for minimizing disturbance from loop delay in broadcast systems		In force
BT.1676-0	2004-02	Methodological framework for specifying accuracy and cross-calibration of video quality metrics		In force
BT.1680-0	2004-03	Baseband imaging format for distribution of large screen digital imagery applications intended for presentation in a theatrical environment		In force
BT.1683-0	2004-06	Objective perceptual video quality measurement techniques for standard definition digital broadcast television in the presence of a full reference		In force
BT.1685-0	2004-09	Structure of inter-station control data conveyed by ancillary data packets		In force
BT.1686-0	2004-09	Methods of measurement of image presentation parameters for large screen digital imagery programme presentation in a theatrical environment		In force
BT.1687-1	2006-02	Video bit-rate reduction for real-time distribution of large-screen digital imagery applications for presentation in a theatrical environment		In force
BT.1689-0	2004-09	Guidelines on the presentation in large-screen digital imagery environments of programmes that are provided in image formats conforming to Recommendation ITU-R BT.601		In force
BT.1690-0	2004-09	Assumed characteristics of venues intended for large-screen digital imagery programme presentation in a theatrical environment		In force

Number	Approval da	te Title	Observation	Status
BT.1700-0	2005-02	Characteristics of composite video signals for conventional analogue television systems		In force
BT.1701-1	2005-08	Characteristics of radiated signals of conventional analogue television systems		In force
BT.1702-0	2005-02	Guidance for the reduction of photosensitive epileptic seizures caused by television		In force
BT.1720-0	2005-07	Quality of service ranking and measurement methods for digital video broadcasting services delivered over broadband Internet protocol networks		In force
BT.1721-0	2005-07	Objective measurement of perceptual image quality of large screen digital imagery applications for theatrical presentation		In force
BT.1727-0	2005-04	Terrestrial and satellite delivery of programme material to large screen digital imagery venues		In force
BT.1729-0	2005-04	Common 16:9 or 4:3 aspect ratio digital television reference test pattern		In force
BT.1736-0	2006-02	Broadcasting of redistribution signalling for television		In force
BT.1737-0	2006-02	Use of the ITU-T Recommendation H.264 (MPEG 4/AVC) video source-coding method to transport high definition TV programme material		In force
BT.1769-0	2006-07	Parameter values for an expanded hierarchy of LSDI image formats for production and international programme exchange		In force
BT.1774-1	2007-04	Use of satellite and terrestrial broadcast infrastructures for public warning, disaster mitigation and relief	Note - Identical to Rec. ITU-R BO.1774-1	In force
BT.1775-0	2006-07	File format with editing capability, for the exchange of metadata, audio, video, data essence and ancillary data for use in broadcasting		In force
BT.1786-0	2007-04	Criterion to assess the impact of interference to the terrestrial broadcasting service (BS)	Note - Identical to Rec. ITU-R BS.1786	In force
BT.1788-0	2007-01	Methodology for the subjective assessment of video quality in multimedia applications		In force
BT.1789-0	2007-04	A method to reconstruct received video using transmission error information for packet video transmission		In force
BT.1790-0	2007-01	Requirements for monitoring of broadcasting chains during operation		In force
BT.1832-0	2007-12	Digital video broadcast-return channel terrestrial (DVB-RCT) deployment scenarios and planning considerations		In force
BT.1847-0	2009-01	1 280×720 , 16:9 progressively-captured image format for production and international programme exchange in the 50 Hz environment		In force
BT.1893-0	2011-05	Assessment of impairment caused to digital television reception by a wind turbine		In force

Number	Approval dat	te Title	Observation	Status
BT.1895-0	2011-05	Protection criteria for terrestrial broadcasting systems	Note - Identical to Rec. ITU-R BS.1895	In force
BT.2027-0	2012-08	Serial Digital Interface for production and international exchange of HDTV 3DTV programmes		In force
BT.2036-0	2013-07	Characteristics of a reference receiving system for frequency planning of digital terrestrial television systems		In force
BT.2038-0	2013-07	Transport of HDTV 3DTV programmes for international programme exchange in broadcasting		In force

Number	Approval d	ate Title	Observation	Status
Series F	Fixed serv	vice		
F.339-8	2013-02	Bandwidths, signal-to-noise ratios and fading allowances in HF fixed and land mobile radiocommunication systems		In force
F.2004-0	2012-03	Radio-frequency channel arrangements for fixed service systems operating in the 92-95 GHz range		In force
F.386-9	2013-02	Radio-frequency channel arrangements for fixed wireless systems operating in the 8 GHz (7 725 to 8 500 MHz) band		In force
F.385-10	2012-03	Radio-frequency channel arrangements for fixed wireless systems operating in the 7 110-7 900 MHz band		In force
F.383-9	2013-02	Radio-frequency channel arrangements for high- capacity fixed wireless systems operating in the lower 6 GHz (5 925 to 6 425 MHz) band		In force
F.1099-5	2013-02	Radio-frequency channel arrangements for high- and medium-capacity digital fixed wireless systems in the upper 4 GHz (4 400-5 000 MHz) band		In force
F.384-11	2012-03	Radio-frequency channel arrangements for medium- and high- capacity digital fixed wireless systems operating in the the 6 425-7 125 MHz band		In force
F.749-3	2012-03	Radio-frequency arrangements for systems of the fixed service operating in sub-bands in the 36-40.5 GHz band		In force
F.1245-2	2012-03	Mathematical model of average and related radiation patterns for line-of-sight point-to-point fixed wireless system antennas for use in certain coordination studies and interference assessment in the frequency range from 1 GHz to about 70 GHz		In force
F.1247-3	2013-02	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		In force
F.1249-3	2013-02	Technical and operational requirements that facilitate sharing between point-to-point systems in the fixed service and the intersatellite service in the band 25.25-27.5 GHz		In force
F.1336-3	2012-03	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 GHz to about 70 GHz		In force
F.1495-2	2012-03	Interference criteria to protect the fixed service from time varying aggregate interference from other radiocommunication services sharing the 17.7-19.3 GHz band on a co-primary basis		In force

Number	Approval da	te Title	Observation	Status
F.758-5	2012-03	System parameters and considerations in the development of criteria for sharing or compatibility between digital fixed wireless systems in the fixed service and systems in other services and other sources of interference		In force
F.757-4	2011-04	Basic system requirements and performance objectives for fixed wireless access using mobile-derived technologies offering telephony and data communication services		In force
F.387-12	2012-03	Radio-frequency channel arrangements for fixed wireless systems operating in the 10.7-11.7 GHz band		In force
F.747-1	2012-03	Radio-frequency channel arrangements for fixed wireless system operating in the 10.0-10.68 GHz band		In force
F.746-10	2012-03	Radio-frequency arrangements for fixed service systems		In force
F.637-4	2012-03	Radio-frequency channel arrangements for fixed wireless systems operating in the 21.2-23.6 GHz band		In force
F.636-4	2012-03	Radio-frequency channel arrangements for fixed wireless systems operating in the 14.4-15.35 GHz band		In force
F.635-7	2013-02	Radio-frequency channel arrangements based on a homogeneous pattern for fixed wireless systems operating in the 4 GHz (3 400-4 200 MHz) band		In force
F.595-10	2012-03	Radio-frequency channel arrangements for fixed wireless systems operating in the 17.7-19.7 GHz frequency band		In force
F.1096-1	2011-04	Methods of calculating line-of-sight interference into fixed wireless systems to account for terrain scattering		In force
F.1107-2	2011-05	Probabilistic analysis for assessing interference into the fixed service from satellites using the geostationary orbit		In force
F.1570-2	2010-04	Impact of uplink transmission in the fixed service using high altitude platform stations on the Earth exploration-satellite service (passive) in the 31.3-31.8 GHz band		In force
F.2005-0	2012-03	Radio-frequency channel and block arrangements for fixed wireless systems operating in the 42 GHz (40.5 to 43.5 GHz) band		In force
F.1509-2	2013-02	Technical and operational requirements that facilitate sharing between point-to-multipoint systems in the fixed service and the intersatellite service in the band 25.25-27.5 GHz		In force
F.1520-3	2011-04	Radio-frequency arrangements for systems in the fixed service operating in the band 31.8-33.4 GHz		In force

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F.2006-0	2012-03	Radio-frequency channel and block arrangements for fixed wireless systems operating in the 71-76 and 81-86 GHz bands		In force
F.106-2	1999-05	The use of diversity for voice-frequency telegraphy on HF radio circuits		In force
F.162-3	1992-03	Use of directional transmitting antennas in the fixed service operating in bands below about 30 MHz		In force
F.240-7	2006-02	Signal-to-interference protection ratios for various classes of emission in the fixed service below about 30 MHz		In force
F.246-3	1974-07	Frequency-shift keying		In force
F.268-1	1970-07	Interconnection at audio frequencies of radio- relay systems for telephony	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.270-2	1978-07	Interconnection at video signal frequencies of radio-relay systems for television	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.275-3	1982-07	Pre-emphasis characteristic for frequency modulation radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.276-2	1974-07	Frequency deviation and the sense of modulation for analogue radio-relay systems for television	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.283-5	1990-06	Radio-frequency channel arrangements for low and medium capacity analogue or digital fixed wireless systems operating in the 2 GHz band	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.290-3	1978-07	Maintenance measurements on radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.302-3	1997-05	Limitation of interference from trans-horizon radio-relay systems		In force
F.305-0	1959-07	Stand-by arrangements for radio-relay systems for television and telephony	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.306-0	1959-07	Procedure for the international connection of radio-relay systems with different characteristics	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.335-2	1970-07	Use of radio links in international telephone circuits	Note - Suppressed on 17/12/99 (CACE/146) Note - Supprimée le 17/12/99 (CACE/146)	Withdrawn
F.338-2	1970-07	Bandwidth required at the output of a telegraph or telephone receiver		In force
F.342-2	1970-07	Automatic error-correcting system for telegraph signals transmitted over radio circuits	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.345-0	1963-07	Telegraph distortion	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.347-0	1963-07	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	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn

Number	Approval da	te Title	Observation	Status
F.348-4	1990-06	Arrangement of channels in multi-channel single- sideband and independent-sideband transmitters for long-range circuits operating at frequencies below about 30 MHz		In force
F.349-5	1999-05	Frequency stability required for systems operating in the HF fixed service to make the use of automatic frequency control superfluous	Note - Suppressed on 29/04/10 (CACE/508)	Withdrawn
F.380-4	1986-07	Interconnection at baseband frequencies of radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.381-2	1970-07	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	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.382-8	2006-04	Radio-frequency channel arrangements for fixed wireless systems operating in the 2 and 4 GHz bands		In force
F.388-0	1963-07	Radio-frequency channel arrangements for trans- horizon radio-relay systems	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.389-2	1974-07	Preferred characteristics of auxiliary radio-relay systems operating in the 2, 4, 6 or 11 GHz bands	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.390-4	1982-07	Definitions of terms and references concerning hypothetical reference circuits and hypothetical reference digital paths for radio-relay systems	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.391-0	1963-07	Hypothetical reference circuit for radio-relay systems for telephony using frequency-division multiplex with a capacity of 12 to 60 telephone channels	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.392-0	1963-07	Hypothetical reference circuit for radio-relay systems for telephony using frequency-division multiplex with a capacity of more than 60 telephone channels	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.393-4	1982-07	Allowable noise power in the hypothetical reference circuit for radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.395-2	1978-07	Noise in the radio portion of circuits to be established over real radio-relay links for FDM telephony	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.396-1	1966-07	Hypothetical reference circuit for trans-horizon radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.397-3	1978-07	Allowable noise power in the hypothetical reference circuit of trans-horizon radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.398-3	1974-07	Measurements of noise in actual traffic over radio-relay systems for telephony using frequency-division multiplex	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn

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F.399-3	1978-07	uniform s	ment of noise using a continuous pectrum signal on frequency-division telephony radio-relay systems	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.400-2	1970-07		nannels to be provided for the n and maintenance of radio-relay	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.401-2	1970-07	for freque	ies and deviations of continuity pilots ency modulation radio-relay systems sion and telephony	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.402-2	1978-07	channel s	erred characteristics of a single sound imultaneously transmitted with a signal on an analogue radio-relay	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.403-3	1978-07		iate-frequency characteristics for the lection of analogue radio-relay systems	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.404-2	1970-07		y deviation for analogue radio-relay or telephony using frequency-division	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.405-1	1970-07		nasis characteristics for frequency on radio-relay systems for television	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.436-5	1999-05	_	nent of voice-frequency, frequency- graph channels over HF radio circuits	Note - Suppressed on 29/04/10 (CACE/508)	Withdrawn
F.444-3	1982-07		characteristics for multi-line switching ents of analogue radio-relay systems	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.454-1	1978-07		ier level for HF single-sideband and ent-sideband reduced-carrier systems		In force
F.455-2	1992-03	•	l transmission system for HF phone circuits	Note - Suppressed on 17/12/99 (CACE/146)	Withdrawn
F.463-1	1978-07		the residues of signals outside the lof radio-relay systems for television	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.480-0	1974-07	circuits. D	omatic operation on HF radiotelephone Devices for remote connection to an c exchange by radiotelephone circuits	Note - Withdrawn on 17/12/99 (CACE/146)	Withdrawn
F.497-7	2007-09	wireless	quency channel arrangements for fixed systems operating in the 13 GHz (12.75-z) frequency band		In force
F.518-1	1994-09	Single-ch	annel simplex ARQ telegraph system	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.519-0	1978-07	Single-ch	annel duplex ARQ telegraph system	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.520-2	1992-03	Use of hig simulator	gh frequency ionospheric channel rs	Note - Suppressed on 05/05/00 (RA-2000)	Withdrawn
F.555-1	1997-05		ole noise in the hypothetical reference radio-relay systems for television	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.556-1	1986-07	relay syst integrate	ical reference digital path for radio- ems which may form part of an d services digital network with a above the second hierarchical level		In force

Number	Approval da	ite Title	Observation	Status
F.557-4	1997-09	Availability objective for radio-relay systems over a hypothetical reference circuit and a hypothetical reference digital path		In force
F.592-4	2007-09	Vocabulary of terms for the fixed service		In force
F.593-0	1982-07	Noise in real circuits of multi-channel trans- horizon FM radio-relay systems of less than 2 500 km	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
F.594-4	1997-09	Error performance objectives of the hypothetical reference digital path for radiorelay 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		In force
F.596-1	1994-09	Interconnection of digital radio-relay systems	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.612-0	1986-07	Measurement of reciprocal mixing in HF communication receivers in the fixed service		In force
F.613-0	1986-07	The use of ionospheric channel sounding systems operating in the fixed service at frequencies below about 30 MHz		In force
F.634-4	1997-09	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		In force
F.695-0	1990-06	Availability objectives for real digital radio-relay links forming part of a high-grade circuit within an integrated services digital network		In force
F.696-2	1997-09	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		In force
F.697-2	1997-09	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		In force
F.698-2	1994-09	Preferred frequency bands for trans-horizon radio-relay systems		In force
F.699-7	2006-04	Reference radiation patterns for fixed wireless system antennas for use in coordination studies and interference assessment in the frequency range from 100 MHz to about 70 GHz		In force
F.700-2	1994-09	Error performance and availability measurement algorithm for digital radio-relay links at the system bit-rate interface	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.701-2	1997-09	Radio-frequency channel arrangements for digital point-to-multipoint radio systems operating in frequency bands in the range 1 350 to 2 690 MHz (1.5, 1.8, 2.0, 2.2, 2.4 and 2.6 GHz)		In force

Number	Approval d	ate Title Observation	Status
F.745-1	2002-02	Certain ITU-R Recommendations for analogue Note - Suppressed on radio-relay systems, including those which have been deleted	Withdrawn
F.748-4	2001-05	Radio-frequency arrangements for systems of the fixed service operating in the 25, 26 and 28 GHz bands	In force
F.750-4	2000-05	Architectures and functional aspects of radio- relay systems for synchronous digital hierarchy (SDH)-based network	In force
F.751-2	1997-09	Transmission characteristics and performance requirements of radio-relay systems for SDH-based networks	In force
F.752-2	2006-02	Diversity techniques for point-to-point fixed wireless systems	In force
F.753-0	1992-03	Preferred methods and characteristics for the Suppressed on supervision and protection of digital radio-relay systems Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.754-0	1992-03	Radio-relay systems in bands 8 and 9 for the provision of telephone trunk connections in rural areas	Withdrawn
F.755-2	1999-05	Point-to-multipoint systems in the fixed service	In force
F.756-0	1992-03	TDMA point-to-multipoint systems used as radio Note - Suppressed on concentrators 10/10/07 (CACE/435)	Withdrawn
F.759-0	1992-03	The use of frequencies in the band 500 to Note – Suppressed on 3 000 MHz for radio-relay systems 20/10/09 (CACE/493)	Withdrawn
F.760-1	1994-09	Protection of terrestrial line-of-sight radio-relay systems against interference from the broadcasting-satellite service in the bands near 20 GHz Note -Suppressed on 06/02/2013 (CACE/605)	Withdrawn
F.761-0	1992-03	Frequency sharing between the fixed service Note - Suppressed on and passive sensors in the band 18.6 to 18.8 GHz 06/06/03 (RA-03)	Withdrawn
F.762-2	1995-10	Main characteristics of remote control and monitoring systems for HF receiving and transmitting stations Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.763-5	2005-01	Data transmission over HF circuits using phase shift keying or quadrature amplitude modulation	In force
F.764-1	1994-09	Minimum requirements for HF radio systems using a packet transmission protocol	In force
F.1092-1	1997-09	Error performance objectives for constant bit rate digital path at or above the primary rate 25/05/02 (CACE/258) carried by digital radio-relay systems which may form part of the international portion of a part of the international portion of a 27 500 km hypothethical reference path Rec. ITU-R F.1397)	Withdrawn
F.1093-2	2006-04	Effects of multipath propagation on the design and operation of line-of-sight digital fixed wireless systems	In force

Number	Approval da	te Title	Observation	Status
F.1094-2	2007-09	Maximum allowable error performance and availability degradations to digital fixed wireless systems arising from radio interference from emissions and radiations from other sources		In force
F.1095-0	1994-09	A procedure for determining coordination area between radio-relay stations of the fixed service		In force
F.1097-1	2000-05	Interference mitigation options to enhance compatibility between radar systems and digital radio-relay systems		In force
F.1098-1	1995-10	Radio-frequency channel arrangements for fixed wireless systems in the 1 900-2 300 MHz band		In force
F.1100-0	1994-09	Radio-frequency channel arrangements for radio-relay systems operating in the 55 GHz band	Note - Withdrawn on 05/05/00 (RA-2000)	Withdrawn
F.1101-0	1994-09	Characteristics of digital fixed wireless systems below about 17 GHz		In force
F.1102-2	2005-01	Characteristics of fixed wireless systems operating in frequency bands above about 17 GHz		In force
F.1103-1	2007-09	Basic requirements and technologies for fixed wireless access systems operating in bands below 3 GHz for the provision of wireless subscriber connections in rural areas		In force
F.1104-0	1994-09	Requirements for point-to-multipoint radio systems used in the local grade portion of an ISDN connection	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.1105-2	2006-02	Fixed wireless systems for disaster mitigation and relief operations		In force
F.1106-0	1994-09	Effects of propagation on the design and operation of trans-horizon radio-relay systems		In force
F.1108-4	2005-01	Determination of the criteria to protect fixed service receivers from the emissions of space stations operating in non-geostationary orbits in shared frequency bands		In force
F.1109-0	1994-09	ITU-Recommendations relating to systems in the fixed service operating at frequencies below about 30 MHz which are not reprinted	Note - Withdrawn on 17/12/99 (CACE/146)	Withdrawn
F.1110-3	2003-02	Adaptive radio systems for frequencies below about 30 MHz		In force
F.1111-1	1995-10	Improved Lincompex system for HF radiotelephone circuits		In force
F.1112-1	1995-10	Digitized speech transmissions for systems operating below about 30 MHz		In force
F.1113-0	1994-09	Radio systems employing meteor-burst propagation		In force
F.1189-1	1997-09	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	Note - Suppressed on 25/05/02 (CACE/258) - This Recommendation has been replaced by Rec. ITU-R F.1491	Withdrawn

Number	Approval da	ate	Title	Observation	Status
F.1190-0	1995-10	to ensure	n criteria for digital radio-relay systems compatibility with radar systems in determination service		In force
F.1191-3	2011-05		and occupied bandwidths and demissions of digital fixed service		In force
F.1192-0	1995-10		pacity of automatically controlled radic and networks in the HF fixed service)	In force
F.1241-0	1997-05	from other bands on systems or and which	nce degradation due to interference er services sharing the same frequency a primary basis with digital radio-relay operating at or above the primary rate in may form part of the international f a 27 500 km hypothetical reference	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.1242-0	1997-05	digital rad	quency channel arrangements for lio systems operating in the range 1 to 1 530 MHz		In force
F.1243-0	1997-05		quency channel arrangements for lio systems operating in the range 70 MHz		In force
F.1244-0	1997-05	Radio loca	al area networks (RLANs)	Note – Suppressed on 20/10/09 (CACE/493)	Withdrawn
F.1246-0	1997-05	fixed serv frequency	e bandwidth of receiving stations in the ice to be used in coordination of assignments with transmitting space the mobile-satellite service in the 1- ge		In force
F.1248-0	1997-05	science se horizon ra	nterference to satellites in the space ervices from the emissions of trans- adio-relay systems in the bands 2 025- z and 2 200-2 290 MHz		In force
F.1330-2	2006-04	parts of ir hierarchy	nce limits for bringing into service the nternational plesiochronous digital and synchronous digital hierarchy I sections implemented by digital fixed ystems		In force
F.1331-0	1997-09	from other bands on	nce degradation due to interference er services sharing the same frequency a primary basis with analogue radio- ems for television	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.1332-1	1999-05	Radio-free fibres	quency signal transport through optica	l	In force
F.1333-1	1999-05	station in	n of the actual elevation angle from a the fixed service towards a space king into account atmospheric		In force
F.1334-0	1997-09	service sh	n criteria for systems in the fixed aring the same frequency bands in the z range with the land mobile service		In force

Number	Approval da	te Title	Observation	Status
F.1335-0	1997-09	Technical and operational considerations in the phased transitional approach for bands shared between the mobile-satellite service and the fixed service at 2 GHz		In force
F.1337-0	1997-09	Frequency management of adaptive HF radio systems and networks using FMCW oblique-incidence sounding		In force
F.1338-0	1997-10	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		In force
F.1397-2	2002-05	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	Note - Suppressed on 29/01/05 (CACE/337) (This Recommendation replaced Rec. ITU-R F.1092-1)	Withdrawn
F.1398-0	1999-05	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	Note - Suppressed on 10/10/07 (CACE/435)	Withdrawn
F.1399-1	2001-05	Vocabulary of terms for wireless access		In force
F.1400-0	1999-05	Performance and availability requirements and objectives for fixed wireless access to public switched telephone network		In force
F.1401-1	2004-01	Considerations for the identification of possible frequency bands for fixed wireless access and related sharing studies		In force
F.1402-0	1999-05	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		In force
F.1403-0	1999-05	Power flux-density criteria in ITU-R Recommendations for protection of systems in the fixed service in frequency bands shared with space stations of various space services		In force
F.1404-1	2002-05	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		In force
F.1405-0	1999-05	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	Note – Suppressed on 20/10/09 (CACE/493)	Withdrawn

Number	Approval da	ate	Title	Observation	Status
F.1487-0	2000-05	_	of HF modems with bandwidths of up to kHz using ionospheric channel rs		In force
F.1488-0	2000-05	•	cy block arrangements for fixed wireless stems in the range 3 400-3 800 MHz	5	In force
F.1489-0	2000-05	operation access ar	dology for assessing the level of nal compatibility between fixed wirelessed radiolocation systems when sharing 3.4-3.7 GHz	5	In force
F.1490-1	2007-09	Generic r systems	requirements for fixed wireless access		In force
F.1491-2	2002-05	radio link	formance objectives for real digital as used in the national portion of a 27 hypothetical reference path at or above ary rate	Note - Withdrawn on 29/01/05 (CACE/337) - This Recommendation has been replaced by Rec. ITU-R F.1668	Withdrawn
F.1492-0	2000-05	relay linl portion	ity objectives for real digital radio- ks forming part of international constant bit rate digital path at or ne primary rate	Note - Suppressed on 24/01/05 (CACE/334) - This Recommendation has been replaced by Rec. ITU-R F.1703	Withdrawn
F.1493-0	2000-05	links forn	ity objectives for real digital radio-relay ming part of national portion constant ligital path at or above the primary rate	Note - Suppressed on 24/01/05 (CACE/334) - This Recommendation has been replaced by Rec. ITU-R F.1703	Withdrawn
F.1494-0	2000-05	from tim other ser	nce criteria to protect the fixed service e varying aggregate interference from rvices sharing the 10.7-12.75 GHz band orimary basis		In force
F.1496-1	2002-02		equency channel arrangements for fixed systems operating in the band 51.4-		In force
F.1497-1	2002-02		equency channel arrangements for fixed systems operating in the band 55.78-59		In force
F.1498-1	2002-05		ent characteristics of fixed service in the band 37-40 GHz for use in sharing	3	In force
F.1499-0	2000-05		insmission systems for fixed broadband access based on cable modem standard		In force
F.1500-0	2000-05	service u	d characteristics of systems in the fixed sing high altitude platforms operating in s 47.2-47.5 GHz and 47.9-48.2 GHz	1	In force
F.1501-0	2000-05	service (F stations (47.2-47.5	otion distance for systems in the fixed FS) involving high-altitude platform (HAPSS) sharing the frequency bands GHz and 47.9-48.2 GHz with other in the fixed service		In force

Number	Approval da	ate Title	Observation	Status
F.1502-0	2000-05	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)		In force
F.1518-0	2001-05	Spectrum requirement methodology for fixed wireless access and mobile wireless access networks using the same type of equipment, when coexisting in the same frequency band		In force
F.1519-0	2001-05	Guidance on frequency arrangements based on frequency blocks for systems in the fixed service		In force
F.1565-0	2002-05	Performance degradation due to interference from other services sharing the same frequency bands on a co-primary basis with real digital fixed wireless systems used in the international and national portions of a 27 500 km hypothetical reference path at or above the primary rate		In force
F.1566-1	2007-01	Performance limits for maintenance of digital fixed wireless systems operating in plesiochronous and synchronous digital hierarchy-based international paths and sections		In force
F.1567-0	2002-05	Radio-frequency channel arrangement for digital fixed wireless systems operating in the frequency band 406.1-450 MHz		In force
F.1568-1	2005-01	Radio-frequency block arrangements for fixed wireless access systems in the range 10.15-10.3/10.5-10.65 GHz		In force
F.1569-0	2002-05	Technical and operational characteristics for the fixed service using high altitude platform stations in the bands 27.5-28.35 GHz and 31-31.3 GHz		In force
F.1571-0	2002-05	Mitigation techniques for use in reducing the potential for interference between airborne stations in the radionavigation service and stations in the fixed service in the band 31.8-33.4 GHz		In force
F.1605-0	2003-02	Error performance and availability estimation for synchronous digital hierarchy terrestrial fixed wireless systems		In force
F.1606-0	2003-02	Interference criteria to protect fixed wireless systems from time varying aggregate interference produced by non-geostationary satellites operating in other services sharing the 37-40 GHz and 40.5-42.5 GHz bands on a coprimary basis		In force
F.1607-0	2003-02	Interference mitigation techniques for use by high altitude platform stations in the 27.5-28.35 GHz and 31.0-31.3 GHz bands		In force

Number	Approval da	ate Title	Observation	Status
F.1608-0	2003-02	Frequency sharing between systems in the fixed service using high altitude platform stations and conventional systems in the fixed service in the bands 47.2-47.5 and 47.9-48.2 GHz		In force
F.1609-1	2006-04	Interference evaluation from fixed service systems using high altitude platform stations to conventional fixed service systems in the bands 27.5-28.35 GHz and 31-31.3 GHz		In force
F.1610-0	2003-02	Planning, design and implementation of HF fixed service radio systems		In force
F.1611-0	2003-02	Prediction methods for adaptive HF system planning and operation		In force
F.1612-0	2003-02	Interference evaluation of the fixed service using high altitude platform stations to protect the radio astronomy service from uplink transmission in high altitude platform station systems in the 31.3-31.8 GHz band		In force
F.1613-0	2003-02	Operational and deployment requirements for fixed wireless access systems in the fixed service in Region 3 to ensure the protection of systems in the Earth exploration-satellite service(active) and the space research service (active) in the band 5 250-5 350 MHz		In force
F.1668-1	2007-01	Error performance objectives for real digital fixed wireless links used in 27 500 km hypothetical reference paths and connections		In force
F.1669-1	2007-09	Interference criteria of fixed wireless systems operating in the 37-40 GHz and 40.5-42.5 GHz bands with respect to satellites in the geostationary orbit		In force
F.1670-1	2006-02	Protection of fixed wireless systems from terrestrial digital video and sound broadcasting systems in shared VHF and UHF bands		In force
F.1671-0	2004-01	Guidelines for a process to address the deployment of area-licensed fixed wireless systems operating in neighbouring countries		In force
F.1703-0	2005-01	Availability objectives for real digital fixed wireless links used in 27 500 km hypothetical reference paths and connections		In force
F.1704-0	2005-01	Characteristics of multipoint-to-multipoint fixed wireless systems with mesh network topology operating in frequency bands above about 17 GHz		In force
F.1705-0	2005-01	Analysis and optimization of the error performance of digital fixed wireless systems for the purpose of bringing into service and maintenance		In force

Number	Approval dat	te Title	Observation	Status
F.1706-0	2005-01	Protection criteria for point-to-point fixed wireless systems sharing the same frequency band with nomadic wireless access systems in the 4 to 6 GHz range		In force
F.1760-0	2006-02	Methodology for the calculation of aggregate equivalent isotropically radiated power (a.e.i.r.p.) distribution from point-to-multipoint high-density applications in the fixed service operating in bands above 30 GHz identified for such use		In force
F.1761-0	2006-02	Characteristics of HF fixed radiocommunication systems		In force
F.1762-0	2006-02	Characteristics of enhanced applications for high frequency (HF) radiocommunication systems		In force
F.1763-0	2006-04	Radio interface standards for broadband wireless access systems in the fixed service operating below 66 GHz		In force
F.1764-1	2011-05	Methodology to evaluate interference from user links in fixed service systems using high altitude platform stations to fixed wireless systems in the bands above 3 GHz		In force
F.1765-0	2006-04	Methodology for determining the aggregate equivalent isotropically radiated power from point-to-point high-density applications in the fixed service operating in bands above 30 GHz		In force
F.1766-0	2006-04	Methodology to determine the probability of a radio astronomy observatory receiving interference based on calculated exclusion zones to protect against interference from point-to-multipoint high-density applications in the fixed service operating in bands around 43 GHz		In force
F.1777-0	2007-01	System characteristics of television outside broadcast, electronic news gathering and electronic field production in the fixed service for use in sharing studies		In force
F.1778-0	2007-01	Channel access requirements for HF adaptive systems in the fixed service		In force
F.1819-0	2007-09	Protection of the radio astronomy service in the 48.94-49.04 GHz band from unwanted emissions from HAPS in the 47.2-47.5 GHz and 47.9-48.2 GHz bandss		In force
F.1820-0	2007-09	Power flux-density at international borders for high altitude platform stations providing fixed wireless access services to protect the fixed service in neighbouring countries in the 47.2-47.5 GHz and 47.9-48.2 GHz bands		In force
F.1821-0	2007-09	Characteristics of advanced digital high frequency (HF) radiocommunication systems		In force

Number	Approval dat	te Title	Observation	Status
F.1891-0	2011-05	Technical and operational characteristics of gateway links in the fixed service using high altitude platform stations in the band 5 850-7 075 MHz to be used in sharing studies		In force
F.2011-0	2012-01	Evaluation of interference from high-altitude platform (HAPS) gateway links (HAPS-to-ground direction) in the fixed service to conventional fixed wireless systems in the range 5 850-7 075 MHz		In force

Number	Approval da	te Title	Observation	Status
Series M	Mobile, ra	diodetermination, amateur and related sa	tellite services	
M.1177-4	2011-04	Techniques for measurement of unwanted emissions of radar systems		In force
M.2030-0	2012-12	Evaluation method for pulsed interference from relevant radio sources other than in the radionavigation-satellite service to the radionavigation-satellite service systems and networks operating in the 1 164-1 215 MHz, 1 215-1 300 MHz and 1 559-1 610 MHz frequency bands		In force
M.629-1	2013-02	Use for 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		In force
M.1170-1	2012-03	Morse telegraphy procedures in the maritime mobile service		In force
M.628-5	2012-03	Technical characteristics for search and rescue radar transponders		In force
M.1173-1	2012-03	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		In force
M.689-3	2012-03	International maritime VHF radiotelephone system with automatic facilities based on DSC signalling format		In force
M.1579-1	2012-03	Global circulation of IMT-2000 terrestrial terminals		In force
M.690-2	2012-03	Technical characteristics of emergency position- indicating radio beacons (EPIRBs) operating on the carrier frequencies of 121.5 MHz and 243 MHz		In force
M.1224-1	2012-03	Vocabulary of terms for International Mobile Telecommunications (IMT)		In force
M.493-13	2009-10	Digital selective-calling system for use in the maritime mobile service		In force
M.1319-3	2010-01	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 (MSS) space-to-Earth transmissions on the performance of line-of-sight fixed service receivers in the frequency range 1-3 GHz		In force
M.2031-0	2012-12	Characteristics and protection criteria of receiving earth stations and characteristics of transmitting space stations of the radionavigation-satellite service (space-to-Earth) operating in the band 5 010-5 030 MHz		In force

Number	Approval da	nte Title	Observation	Status
M.1371-4	2010-04	Technical characteristics for an automatic identification system using time-division multiple access in the VHF maritime mobile band		In force
M.625-4	2012-03	Direct-printing telegraph equipment employing automatic identification in the maritime mobile service		In force
M.693-1	2012-03	Technical characteristics of VHF emergency position-indicating radio beacons using digital selective calling		In force
M.820-1	2012-03	Use of 9-digit identities for narrow-band direct- printing telegraphy in the maritime mobile service		In force
M.824-4	2013-02	Technical parameters of radar beacons		In force
M.1036-4	2012-03	Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations (RR)		In force
M.1073-3	2012-03	Digital cellular land mobile telecommunication systems		In force
M.1081-1	2012-03	Automatic HF facsimile and data system for maritime mobile users		In force
M.1084-5	2012-03	Interim solutions for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service		In force
M.633-4	2010-12	Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) system operating through a satellite system in the 406 MHz band		In force
M.1850-1	2012-12	Detailed specifications of the radio interfaces for the satellite component of International Mobile Telecommunications-2000 (IMT-2000)		In force
M.1176-1	2013-02	Technical parameters of radar target enhancers		In force
M.1854-1	2012-01	Use of mobile-satellite service in disaster response and relief		In force
M.1874-1	2013-02	Technical and operational characteristics of oceanographic radars operating in sub-bands within the frequency range 3-50 MHz		In force
M.1890-0	2011-04	Intelligent transport systems - Guidelines and objectives		In force
M.1902-0	2012-01	Characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (space-to-Earth) operating in the band 1 215-1 300 MHz		In force
M.1903-0	2012-01	Characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (space-to-Earth) and receivers in the aeronautical radionavigation service operating in the band 1 559-1 610 MHz		In force

Number	Approval da	te Title	Observation	Status
M.1904-0	2012-01	Characteristics, performance requirements and protection criteria for receiving stations of the radionavigation-satellite service (space-to-space) operating in the frequency bands 1 164-1 215 MHz, 1 215-1 300 MHz and 1 559-1 610 MHz		In force
M.2034-0	2013-02	Telegraphic alphabet for data communication by phase shift keying at 31 baud in the amateur and amateur-satellite services		In force
M.1768-1	2013-04	Methodology for calculation of spectrum requirements for the terrestrial component of International Mobile Telecommunications		In force
M.2007-0	2012-03	Characteristics of and protection criteria for radars operating in the aeronautical radionavigation service in the frequency band 5 150-5 250 MHz		In force
M.2003-0	2012-03	Multiple gigabit wireless systems in frequencies around 60 GHz		In force
M.2002-0	2012-03	Objectives, characteristics and functional requirements of wide-area sensor and/or actuator network (WASN) systems		In force
M.1457-11	2013-02	Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2000 (IMT-2000)		In force
M.1906-0	2012-01	Characteristics and protection criteria of receiving space stations and characteristics of transmitting earth stations in the radionavigation-satellite service (Earth-to-space) operating in the band 5 000-5 010 MHz		In force
M.1905-0	2012-01	Characteristics and protection criteria for receiving earth stations in the radionavigation-satellite service (space-to-Earth) operating in the band 1 164-1 215 MHz		In force
M.1802-1	2010-04	Characteristics and protection criteria for radars operating in the radiolocation service in the frequency band 30-300 MHz		In force
M.1801-2	2013-02	Radio interface standards for broadband wireless access systems, including mobile and nomadic applications, in the mobile service operating below 6 GHz		In force
M.1798-1	2010-04	Characteristics of HF radio equipment for the exchange of digital data and electronic mail in the maritime mobile service		In force
M.1463-2	2013-02	Characteristics of and protection criteria for radars operating in the radiodetermination service in the frequency band 1 215-1 400 MHz		In force
M.2008-0	2012-03	Characteristics and protection criteria for radars operating in the aeronautical radionavigation service in the frequency band 13.25-13.40 GHz		In force

Number	Approval da	ite Title	Observation	Status
M.1841-1	2013-02	Compatibility between FM sound-broadcasting systems in the frequency band of about 87-108 MHz and the aeronautical ground-based augmentation system in the frequency band 108-117.975 MHz		In force
M.1787-1	2012-01	Description of systems and networks in the radionavigation-satellite service (space-to-Earth and space-to-space) and technical characteristics of transmitting space stations operating in the bands 1 164-1 215 MHz,1 215-1 300 MHz and 1 559-1 610 MHz		In force
M.1731-2	2012-01	Protection criteria for Cospas-Sarsat local user terminals in the band 1 544-1 545 MHz		In force
M.1469-2	2010-01	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 (LoS) fixed service receivers in the frequency range 1-3 GHz		In force
M.1730-1	2009-10	Characteristics of and protection criteria for the radiolocation service in the frequency band 15.4-17.3 GHz		In force
M.1471-1	2010-01	Guide to the application of the methodologies 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		In force
M.1472-1	2010-01	Methodology to evaluate the impact of interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) space-to-Earth transmissions on baseband performance in frequency division multiplexing-frequency modulation (FDM-FM) analogue line-of-sight (LoS) fixed service receivers in the frequency range 1-3 GHz		In force
M.1473-1	2010-01	Methodology to evaluate the impact of interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) space-to-Earth transmissions on video baseband performance in TV-FM analogue line-of-sight fixed service receivers in the frequency range 1-3 GHz		In force

Number	Approval da	ate Title	Observation	Status
M.1474-1	2010-01	Methodology to evaluate the impact of interference from time division multiple access/frequency division multiple access (TDMA/FDMA) mobile-satellite service (MSS) systems on baseband performance in digital line-of-sight fixed service receivers based on statistics of radio-frequency interference in the frequency range 1-3 GHz		In force
M.1677-1	2009-10	International Morse code		In force
M.1581-4	2012-03	Generic unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-2000		In force
M.1478-2	2012-01	Protection criteria for Cospas-Sarsat search and rescue instruments in the band 406-406.1 MHz		In force
M.1580-4	2012-03	Generic unwanted emission characteristics of base stations using the terrestrial radio interfaces of IMT-2000		In force
M.1796-1	2012-03	Characteristics of and protection criteria for terrestrial radars operating in the radiodetermination service in the frequency band 8 500-10 680 MHz		In force
M.1452-2	2012-05	Millimetre wave vehicular collision avoidance radars and radiocommunication systems for intelligent transport system applications		In force
M.2014-0	2012-03	Global circulation of IMT-2000 satellite terminals		In force
M.2010-0	2012-03	Characteristics of a digital system, named Navigational Data for broadcasting maritime safety and security related information from shore-to-ship in the 500 kHz band		In force
M.1450-4	2010-04	Characteristics of broadband radio local area networks		In force
M.2009-0	2012-03	Radio interface standards for use by public protection and disaster relief operations in some parts of the UHF band in accordance with Resolution 646 (WRC-03)		In force
M.1732-1	2012-03	Characteristics of systems operating in the amateur and amateur-satellite services for use in sharing studies		In force
M.2015-0	2012-03	Frequency arrangements for public protection and disaster relief radiocommunication systems in UHF bands in accordance with Resolution 646 (Rev.WRC-12)		In force
M.218-2	1990-06	Prevention of interference to radio reception on board ships	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.219-1	1966-07	Alarm signal for use on the maritime radiotelephony distress frequency of 2 182 kHz	Note - Suppressed on 06/06/03 (RA-03)	Withdrawr
M.257-3	1995-10	Sequential Single Frequency selective-calling system for use in the maritime mobile service	Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawr

Number	Approval da	ate Title	Observation	Status
M.428-3	1990-06	Direction-finding and/or homing in the 2 MHz band on board ships	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.441-1	1982-07	Signal-to-interference ratios and minimum field strengths required in the aeronautical mobile (R) service above 30 MHz		In force
M.476-5	1995-10	Direct-printing telegraph equipment in the maritime mobile service		In force
M.478-5	1995-10	Technical characteristics of equipment and principles governing the allocation of frequency channels between 25 and 3 000 MHz for the FM land mobile service		In force
M.488-1	1990-06	Equivalent powers of double-sideband and single-sideband radiotelephone emissions in the maritime mobile service	Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawn
M.489-2	1995-10	Technical characteristics of VHF radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz		In force
M.490-0	1974-07	The introduction of direct-printing telegraph equipment in the maritime mobile service. Equivalence of terms	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.491-1	1986-07	Translation between an identity number and identities for direct-printing telegraphy in the maritime mobile service	Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawn
M.492-6	1995-10	Operational procedures for the use of direct- printing telegraph equipment in the maritime mobile service		In force
M.494-0	1974-07	Technical characteristics of single-sideband equipment in the MF and HF land mobile radiotelephone service	Note - Suppressed on 20/10/95 (RA-95)	Withdrawn
M.496-3	1992-03	Limits of power flux-density of radionavigation transmitters to protect space station receivers in the fixed-satellite service in the 14 GHz band		In force
M.539-3	1994-09	Technical and operational characteristics of international radio-paging systems	Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.540-2	1990-06	Operational and technical characteristics for an automated direct-printing telegraph system for promulgation of navigational and meteorological warnings and urgent information to ships		In force
M.541-9	2004-05	Operational procedures for the use of digital selective-calling equipment in the maritime mobile service		In force
M.542-1	1982-07	On-board communications by means of portable radiotelephone equipment	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.546-2	1990-06	Hypothetical telephone reference circuit in the aeronautical, land and maritime mobile-satellite services	Note - Withdrawn on 15/6/2005 (CACE/354)	Withdrawn

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M.547-0	1978-07	Noise objectives in the hypothetical reference circuit for systems in the maritime mobile-satellite service Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
M.548-0	1978-07	Overall transmission characteristics of telephone circuits in the maritime mobile-satellite service Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
M.549-1	1982-07	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 Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
M.550-1	1986-07	Use of echo suppressors in the maritime mobile- satellite service Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
M.552-0	1978-07	Quality objectives for 50-baud start-stop telegraph transmission in the maritime mobile- satellite service Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
M.553-0	1978-07	Interface requirements for 50-baud start-stop Note - Suppressed on telegraph transmission in the maritime mobile-satellite service Note - Suppressed on 14/05/2009 (CACE/471)	Withdrawn
M.584-2	1997-11	Codes and formats for radio paging	In force
M.585-6	2012-01	Assignment and use of identities in the maritime mobile service	In force
M.586-1	1986-07	Automated VHF/UHF maritime mobile telephone system	In force
M.587-1	1986-07	Coast station identities and initiation of location registration in an automated VHF/UHF maritime mobile telephone system	In force
M.588-0	1982-07	Characteristics of maritime radio beacons (Region 1) Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawn
M.589-3	2001-08	Technical characteristics of methods of data transmission and interference protection for radionavigation services in the frequency bands between 70 and 130 kHz	In force
M.622-0	1986-07	Technical and operational characteristics of analogue cellular systems for public land mobile telephone use Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.623-0	1986-07	Data transmission bit rates and modulation techniques in the land mobile service Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.624-0	1986-07	Public land mobile communication systems Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.626-0	1986-07	Evaluation of the quality of digital channels in the maritime mobile service	In force
M.627-1	1995-10	Technical characteristics for HF maritime radio equipment using narrow-band phase-shift keying (NBPSK) telegraphy	In force
M.630-0	1986-07	Main characteristics of two frequency shipborne Note - Suppressed on interrogator transponders (SIT) 06/06/03 (RA-03)	Withdrawn
M.631-1	1992-03	Use of hyperbolic maritime radionavigation Systems in the band 283.5-315 kHz Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawn

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M.632-3	1997-02	Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) system operating through geostationary satellites in the 1.6 GHz band		In force
M.687-2	1997-02	International Mobile Telecommunications-2000 (IMT-2000)		In force
M.688-0	1990-06	Technical characteristics for a high frequency direct-printing telegraph system for promulgation of high seas and NAVTEX-type maritime safety information		In force
M.691-1	1992-03	Technical characteristics and compatibility criteria of maritime radiolocation systems operating in the medium frequency band and using spread-spectrum techniques	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.692-0	1990-06	Narrow-band direct-printing telegraph equipment using a single-frequency channel	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.694-1	2005-06	Reference radiation pattern for ship earth station antennas		In force
M.816-1	1997-10	Framework for services supported on International Mobile Telecommunications-2000 (IMT-2000)		In force
M.817-0	1992-03	International Mobile Telecommunications-2000 (IMT-2000). Network architectures		In force
M.818-2	2003-06	Satellite operation within International Mobile Telecommunications-2000 (IMT-2000)		In force
M.819-2	1997-02	International Mobile Telecommunications-2000 (IMT-2000) for developing countries		In force
M.821-1	1997-02	Optional expansion of the digital selective- calling system for use in the maritime mobile service		In force
M.822-1	1994-09	Calling-channel loading for digital selective calling (DSC) for the maritime mobile service		In force
M.823-3	2006-03	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		In force
M.825-3	1998-10	Characteristics of a transponder system using digital selective calling techniques for use with vessel traffic services and ship-to-ship identification		In force
M.826-0	1992-03	Transmission of information for updating electronic chart display and information systems (ECDIS)		In force
M.827-0	1992-03	Hypothetical reference digital path for systems in the mobile-satellite service using feeder links		In force
M.828-2	2006-03	Definition of availability for radiocommunication circuits in the mobile-satellite service		In force

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M.829-1	1994-09	Frequency sharing in the 1 660-1 660.5 MHz band between the mobile-satellite service and the radioastronomy service Note - Suppressed on 24/10/97 (RA-97)	Withdrawn
M.830-1	2005-06	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 the GMDSS	In force
M.831-0	1992-03	Frequency sharing between services in the band A-30 MHz Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.1032-0	1994-03	Technical and operational characteristics of land Suppressed on 19/10/0 mobile systems using multi-channel access (RA-07) techniques without a central controller	7 In force
M.1033-1	1997-02	Technical and operational characteristics of cordless telephones and cordless telecommunication systems	In force
M.1034-1	1997-02	Requirements for the radio interface(s) for International Mobile Telecommunications-2000 (IMT-2000)	In force
M.1035-0	1994-03	Framework for the radio interface(s) and radio sub-system functionality for International Mobile Telecommunications-2000 (IMT-2000)	In force
M.1037-0	1994-03	Bit error performance objectives for aeronautical mobile-satellite (R) service (AMS(R)S) radio link	In force
M.1038-0	1994-03	Efficient use of the geostationary-satellite orbit and spectrum in the 1-3 GHz frequency range by mobile-satellite systems	In force
M.1039-3	2006-03	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 (FDMA)	In force
M.1040-0	1994-03	Public mobile telecommunication service with aircraft using the bands 1 670-1 675 MHz and 29/04/10 (CACE/508) 1 800-1 805 MHz	Withdrawn
M.1041-2	2003-06	Future amateur radio systems	In force
M.1042-3	2007-03	Disaster communications in the amateur and amateur-satellite services	In force
M.1043-2	2003-06	Use of the amateur and amateur-satellite services in developing countries	In force
M.1044-2	2003-06	Frequency sharing criteria in the amateur and amateur-satellite services	In force
M.1072-0	1994-09	Interference due to intermodulation products in the land mobile service between 25 and 3 000 MHz	In force
M.1074-0	1994-09	Integration of public mobile radiocommunication systems	In force
M.1075-0	1994-09	Leaky feeder systems in the land mobile services	In force

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M.1076-0	1994-09	Wireless co with impair	mmunication systems for persons ed hearing		In force
M.1077-0	1994-09		mitter radio systems using quasi- s (simulcast) transmission for eech	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.1078-0	1994-09		nciples for International Mobile nications-2000 (IMT-2000)		In force
M.1079-2	2003-06	requiremen	e and quality of service ts for International Mobile nications-2000 (IMT-2000) access		In force
M.1080-0	1994-09	_	tive calling system enhancement fuipment installations	For	In force
M.1082-1	1997-10	system with	al maritime MF/HF radiotelephone a automatic facilities based on digi lling signalling format		In force
M.1083-0	1994-09	Interworkin systems	g of maritime radiotelephone	Note - Suppressed on 06/06/03 (RA-03)	Withdrawn
M.1085-1	1997-02		nd operational characteristics of er radars for bands in the vicinity o	Note - Suppressed on f 19/10/07 (RA-07)	Withdrawn
M.1086-1	2006-03	between ge	ion of the need for coordination ostationary mobile satellite naring the same frequency bands		In force
M.1087-0	1994-09	systems in t spectrum lo	r evaluating sharing between he land mobile service and spread w-Earth orbit (LEO) systems in the Ilite service (MSS) below 1 GHz		Withdrawn
M.1088-0	1994-09	services ope	ons for sharing with systems of otlerating in the bands allocated to the tion satellite service	* *	Withdrawn
M.1089-1	2002-07	mobile-sate aeronautica	onsiderations for the coordination Ilite systems relating to the I mobile satellite (R) service In the bands 1 545 to 1 555 MHz ar I 656.5 MHz		In force
M.1090-0	1994-09	single chanr	plans for satellite transmission of nel per carrier (SCPC) carriers using ransponders in the mobile-satellit		In force
M.1091-0	1994-09	eath station	off-axis radiation patterns for mobi antennas operating in the land llite service in the frequency range		In force
M.1141-2	2005-06	non-geostat	ne 1-3 GHz frequency range between ionary space stations operating in satellite service and stations in the earth of the service and stations in the service and se		In force

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M.1142-2	2005-06	Sharing in the 1-3 GHz frequency range between geostationary space stations operating in the mobile satellite service and stations in the fixed service		In force
M.1143-3	2005-06	System specific methodology for coordination of non-geostationary space stations (space-to-Earth) operating in the mobile-satellite service with the fixed service		In force
M.1167-0	1995-10	Framework for the satellite component of International Mobile Telecommunications-2000 (IMT-2000)		In force
M.1168-0	1995-10	Framework of International Mobile Telecommunications-2000 (IMT-2000)		In force
M.1169-0	1995-10	Hours of service of ship stations	Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawn
M.1171-0	1995-10	Radiotelephony procedures in the maritime mobile service		In force
M.1172-0	1995-10	Miscellaneous abbreviations and signals to be used for radiocommunications in the maritime mobile service		In force
M.1174-2	2004-05	Technical characteristics of equipment used for on-board vessel communications in the bands between 450 and 470 MHz		In force
M.1175-0	1995-10	Automatic receiving equipment for radiotelegraph and radiotelephone alarm signals		In force
M.1178-0	1995-10	Use of the maritime radionavigation band 283.5-315 kHz (Region 1) and 285-325 kHz (Regions 2 and 3)		In force
M.1179-0	1995-10	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		In force
M.1180-0	1995-10	Availability of communication circuits in the aeronautical mobile-satellite (R) services (AMS(R)S)		In force
M.1181-0	1995-10	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		In force
M.1182-1	2003-06	Integration of terrestrial and satellite mobile communication systems		In force
M.1183-0	1995-10	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		In force

Number	Approval d	ate Title Observation	Status
M.1184-2	2003-06	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	In force
M.1185-1	1997-10	Method for determining coordination distance between ground based mobile earth stations and terrrestrial stations operating in the 148.0-149.9 MHz band	
M.1186-1	2006-03	Technical considerations for the coordination between mobile-satellite service networks utilizing code division multiple access and other spread spectrum techniques in the 1-3 GHz band	In force
M.1187-1	2006-03	A method for the calculation of the potentially affected region for a mobile-satellite service network in the 1-3 GHz range using circular orbits	In force
M.1188-1	2006-03	Impact of propagation on the design of non-GSO mobile-satellite systems not employing satellite diversity which provide service to handheld equipment	In force
M.1221-0	1997-02	Technical and operational requirements for cellular multimode mobile radio stations Note - Suppressed 19/10/07 (RA-07)	on Withdrawn
M.1222-0	1997-02	Transmission of data messages on shared private land mobile radio channels	In force
M.1223-0	1997-02	Evaluation of security mechanisms for IMT-2000	In force
M.1225-0	1997-02	Guidelines for evaluation of radio transmission technologies for IMT-2000	In force
M.1226-0	1997-02	Technical and operational characteristics of wind profiler radars in bands in the vicinity of 50 MHz	In force
M.1227-2	2001-08	Technical and operational characteristics of wind profiler radars in bands in the vicinity of 1 000 MHz	In force
M.1228-0	1997-02	Methodology for determining performance objectives for narrow-band channels in mobile satellite systems using geostationary satellites not forming part of the ISDN	In force
M.1229-0	1997-02	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	In force
M.1230-0	1997-02	Performance objectives for space-to-Earth links operating in the mobile-satellite service with non-geostationary satellites in the 137-138 MHz band	In force

Number	Approval d	ate Title	Observation	Status
M.1231-0	1997-02	Interference criteria for space-to-Earth links operating in the mobile-satellite service with non-geostationary satellites in the 137-138 MHz band		In force
M.1232-0	1997-02	Sharing criteria for space-to-Earth links operating in the mobile-satellite service with non-geostationary satellites in the 137-138 MHz band		In force
M.1233-1	2006-03	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		In force
M.1234-1	2006-03	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 feede links caused by other networks of this service and the fixed-satellite service	r	In force
M.1307-0	1997-10	Automatic determination of location and guidance in the land mobile services		In force
M.1308-0	1997-10	Evolution of land mobile systems towards IMT-2000		In force
M.1309-0	1997-10	Digitally coded speech in the land mobile service	Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.1310-0	1997-10	Transport information and control systems (TICS) - Objectives and requirements	Note - Suppressed on 28/04/2011 (CACE/537)	Withdrawn
M.1311-0	1997-10	Framework for modularity and radio commonality within IMT-2000		In force
M.1312-0	1997-10	A long-term solution for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service		In force
M.1313-1	2000-05	Technical characteristics of maritime radionavigation radars	Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.1314-1	2005-06	Reduction of unwanted emissions of radar systems operating above 400 MHz		In force
M.1315-0	1997-10	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		In force
M.1316-1	2005-06	Principles and a methodology for frequency sharing in the 1 610.6-1 613.8 MHz and 1 660-1 660.5 MHz bands between the mobile-satellite service (Earth-to-space) and the radio astronomy service		In force

Number	Approval da	te Title	Observation	Status
M.1317-0	1997-10	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)	Note - Suppressed on 18/08/09 (CACE/487) - This Recommendation has been replaced by Rec. ITU-R M.1787	Withdrawn
M.1318-1	2007-10	Evaluation model for continuous interference from radio sources other than in the radionavigation-satellite service to the radionavigation-satellite service systems and networks operating in the 1 164-1 215 MHz, 1 215-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz bands		In force
M.1343-1	2005-06	Essential technical requirements of mobile earth stations for global non-geostationary mobile-satellite service systems in the band 1-3 GHz		In force
M.1372-1	2003-06	Efficient use of the radio spectrum by radar stations in the radiodetermination service		In force
M.1388-0	1999-01	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		In force
M.1389-0	1999-01	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		In force
M.1390-0	1999-01	Methodology for the calculation of IMT-2000 terrestrial spectrum requirements		In force
M.1391-1	2006-03	Methodology for the calculation of IMT-2000 satellite spectrum requirements		In force
M.1451-0	2000-05	Transport information and control systems: functionalities	Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.1453-2	2005-06	Intelligent transport systems - Dedicated short range communications at 5.8 GHz		In force
M.1454-0	2000-05	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		In force
M.1455-2	2003-06	Key characteristics for the International Mobile Telecommunications-2000 (IMT-2000) radio interfaces	Note - Suppressed on 19/10/07 (RA-07)	Withdrawn
M.1456-0	2000-05	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		In force

Number	Approval d	ate	Title	Observation	Status
M.1458-0	2000-05	MHz by 1	ne frequency bands between 2.8-22 the aeronautical mobile (R) service for nsmission using class of emission J2D		In force
M.1459-0	2000-05	aeronau techniqu geostatio satellite	on criteria for telemetry systems in the tical mobile service and mitigation es to facilitate sharing with onary broadcasting-satellite and mobile-services in the frequency bands 1 452-1 and 2 310-2 360 MHz		In force
M.1460-1	2006-03	protection	l and operational characteristics and on criteria of radiodetermination radars 900-3 100 MHz band		In force
M.1461-1	2003-06	interfere	res for determining the potential for ince between radars operating in the ermination service and systems in other		In force
M.1462-0	2000-05	radars o _l	eristics of and protection criteria for perating in the radiolocation service in pency range 420-450 MHz		In force
M.1464-1	2003-06	characte studies f meteoro	ristics of radiolocation radars, and ristics and protection criteria for sharing or aeronautical radionavigation and logical radars in the radiodetermination perating in the frequency band 2 700-2		In force
M.1465-1	2007-03	radars o _l	ristics of and protection criteria for perating in the radiodetermination the frequency band 3 100-3 700 MHz		In force
M.1466-0	2000-05	radars o _l	eristics of and protection criteria for perating in the radionavigation service equency band 31.8-33.4 GHz		In force
M.1467-1	2006-03	and prot	on of sea area A2 and NAVTEX ranges ection of the A2 global maritime and safety system distress watch		In force
M.1468-0	2000-05		l characteristics and sharing scenarios te systems offering multiple services	Note - Suppressed on 15/06/05 (CACE/354)	Withdrawn
M.1470-0	2000-05	(Earth-to	ology of sharing between MSS systems o-space) and existing RNSS systems o-Earth) in frequency bands 149.9- MHz and 399.9-400.05 MHz		In force
M.1475-0	2000-05	objective service s	ology for derivation of performance es of non-geostationary mobile-satellite ystems operating in the 1-3 GHz band g satellite diversity		In force
M.1476-0	2000-05	channels transpor 3 GHz ra	ance objectives for narrow-band digital using geostationary satellites to serve table and mobile Earth stations in the 1-nge forming part of the integrated digital network		In force

Number	Approval da	ate	Title	Observation	Status
M.1477-0	2000-05	current and service (spa radionaviga	nd performance characteristics of d planned radionavigation-satellite ace-to-Earth) and aeronautical ation service receivers to be in interference studies in the band 1 MHz	Note - Suppressed on 13/01/12 (CACE/555) - This Recommendation has been replaced by Rec. ITU-R M.1903	Withdrawn
M.1479-0	2000-05	requirement radionavigations space) rece	haracteristics and performance hts of current and planned ation-satellite service (space-to- eivers to be considered in interference he frequency bands 1 215-1 260 MHz 1 610 MHz	Note - Suppressed on 13/01/12 (CACE/555) - This Recommendation has been replaced by Rec. ITU-R M.1904	Withdrawn
M.1480-0	2000-05	stations of systems the mobile per (GMPCS) -	echnical requirements of mobile Earth geostationary mobile-satellite at are implementing the Global sonal communications by satellite Memorandum of understanding nts in parts of the frequency band 1-3		In force
M.1544-0	2001-08	Minimum o	qualifications of radio amateurs		In force
M.1545-0	2001-08	limits for th	ent uncertainty as it applies to test ne terrestrial component of al Mobile Telecommunications-2000		In force
M.1582-0	2002-07	in the 5 GH standard m operating i service and	r determining coordination distances, z band, between the international dicrowave landing system stations in the aeronautical radionavigation stations of the radionavigation-rvice (Earth-to-space)		In force
M.1583-1	2007-10	geostationa radionaviga	e calculations between non- ary mobile-satellite service or ation-satellite service systems and nomy telescope sites		In force
M.1584-0	2002-07	distances by radionavigation and radars aeronautic	gy for computation of separation etween earth stations of the ation-satellite service (Earth-to-space) of the radiolocation service and the al radionavigation service in the band 1 300-1 350 MHz		In force
M.1634-0	2003-06	service sys	e protection of terrestrial mobile tems using Monte Carlo simulation ation to frequency sharing		In force
M.1635-0	2003-06	for interfer	ethodology for assessing the potential ence between IMT-2000 or systems T-2000 and other services		In force
M.1636-0	2003-06	parameters	ence models and performance s of Internet Protocol packet network on in the mobile-satellite service		In force
M.1637-0	2003-06	radiocomm	s-border circulation of nunication equipment in emergency or relief situations		In force

Number	Approval da	ate Title	Observation	Status
M.1638-0	2003-06	Characteristics of and protection criteria for sharing studies for radiolocation, aeronautical radionavigation and meteorological radars operating in the frequency bands between 5 250 and 5 850 MHz		In force
M.1639-1	2005-06	Protection criterion for the aeronautical radionavigation service with respect to aggregate emissions from space stations in the radionavigation-satellite service in the band 1 164-1 215 MHz		In force
M.1640-0	2003-06	Characteristics of, and protection criteria for sharing studies for radars operating in the radiodetermination service in the frequency band 33.4-36 GHz		In force
M.1641-1	2006-03	A methodology for co-channel interference evaluation to determine separation distance from a system using high-altitude platform stations to a cellular system to provide IMT-2000 service		In force
M.1642-2	2007-10	Methodology for assessing the maximum aggregate equivalent power flux-density at an aeronautical radionavigation service station from all radionavigation-satellite service systems operating in the 1 164-1 215 MHz band		In force
M.1643-0	2003-06	Technical and operational requirements for aircraft earth stations of aeronautical mobile-satellite service including those using fixed-satellite service network transponders in the band 14-14.5 GHz (Earth-to-space)		In force
M.1644-0	2003-06	Technical and operational characteristics, and criteria for protecting the mission of radars in the radiolocation and radionavigation service operating in the frequency band 13.75-14 GHz		In force
M.1645-0	2003-06	Framework and overall objectives of the future development of IMT-2000 and systems beyond IMT-2000		In force
M.1646-0	2003-06	Parameters to be used in co-frequency sharing and pfd threshold studies between terrestrial IMT-2000 and BSS (sound) in the 2 630-2 655 MHz band		In force
M.1651-0	2003-06	A method for assessing the required spectrum for broadband nomadic wireless access systems including radio local area networks using the 5 GHz band		In force
M.1652-1	2011-05	Dynamic frequency selection in wireless access systems including radio local area networks for the purpose of protecting the radiodetermination service in the 5 GHz band		In force

Number	Approval da	ite Title	Observation	Status
M.1653-0	2003-06	Operational and deployment requirements for wireless access systems including radio local area networks in the mobile service to facilitate sharing between these systems and systems in the Earth exploration-satellite service (active) and the space research service (active) in the band 5 470-5 570 MHz within the 5 460 5 725 MHz range		In force
M.1654-0	2003-06	A methodology to assess interference from broadcasting-satellite service (sound) into terrestrial IMT-2000 systems intending to use the band 2 630-2 655 MHz		In force
M.1678-0	2004-05	Adaptive antennas for mobile systems		In force
M.1739-0	2006-03	Protection criteria for wireless access systems, including radio local area networks, operating in the mobile service in accordance with Resolution 229 (WRC-03) in the bands 5 150-5 250 MHz, 5 250-5 350 MHz and 5 470-5 725 MHz		In force
M.1740-0	2006-03	Guide to the application of ITU-R texts related to the amateur and amateur-satellite services		In force
M.1741-0	2006-03	Methodology for deriving performance objectives and its optimization for IP packet applications in the mobile-satellite service		In force
M.1746-0	2006-03	Harmonized frequency channel plans for the protection of property using data communication		In force
M.1747-0	2006-03	Protection of the Earth exploration-satellite service (passive) in the band 1 400-1 427 MHz from unwanted emissions of mobile satellite service feeder links that may operate in the bands 1 390-1 392 MHz (Earth-to-space) and 1 430-1 432 MHz (space-to-Earth)		In force
M.1748-0	2006-03	Protection of the radio astronomy service in the band 1 400-1 427 MHz from unwanted emissions of MSS feeder links that may operate in the bands 1 390-1 392 MHz (Earth-to-space) and 1 430-1 432 MHz (space-to-Earth)		In force
M.1767-0	2006-03	Protection of land mobile systems from terrestrial digital video and audio broadcasting systems in the VHF and UHF shared bands allocated on a primary basis		In force
M.1795-0	2007-03	Technical and operational characteristics of land mobile MF/HF systems		In force
M.1797-0	2007-03	Vocabulary of terms for the land mobile service		In force
M.1799-0	2007-03	Sharing between the mobile service and the mobile-satellite service in the band 1 668.4-1 675 MHz		In force

Number	Approval da	te Title	Observation	Status
M.1800-0	2007-03	Protection of the fixed, mobile and radiolocation services from MSS feeder links that may operate in the bands 1 390-1 392 MHz (Earth-to-space) and 1 430-1 432 MHz (space-to-Earth)		In force
M.1808-0	2007-06	Technical and operational characteristics of conventional and trunked land mobile systems operating in the mobile service allocations below 869 MHz to be used in sharing studies		In force
M.1822-0	2007-10	Framework for services supported by IMT		In force
M.1823-0	2007-10	Technical and operational characteristics of digital cellular land mobile systems for use in sharing studies		In force
M.1824-0	2007-10	System characteristics of television outside broadcast, electronic news gathering and electronic field production in the mobile service for use in sharing studies		In force
M.1825-0	2007-10	Guidance on technical parameters and methodologies for sharing studies related to systems in the land mobile service		In force
M.1826-0	2007-10	Harmonized frequency channel plan for broadband public protection and disaster relief operations at 4 940-4 990 MHz in Regions 2 and 3		In force
M.1827-0	2007-10	Technical and operational requirements for stations of the aeronautical mobile (R) service (AM(R)S) limited to surface application at airports and for stations of the aeronautical mobile service (AMS) limited to aeronautical security (AS) applications in the band 5 091-5 150 MHz		In force
M.1828-0	2007-10	Technical and operational requirements for aircraft stations of aeronautical mobile service limited to transmissions of telemetry for flight testing in the bands around 5 GHz		In force
M.1829-0	2007-10	Method for determining the necessary geographical separation distances, in the 5 GHz band, between the international standard microwave landing system (MLS) stations operating in the aeronautical radionavigation service and transmitters operating in the aeronautical mobile service (AMS) to support telemetry		In force
M.1830-0	2007-10	Technical characteristics and protection criteria of aeronautical radionavigation service systems in the 645-862 MHz frequency band		In force
M.1831-0	2007-10	A coordination methodology for RNSS intersystem interference estimation		In force
M.1842-1	2009-06	Characteristics of VHF radio systems and equipment for the exchange of data and electronic mail in the maritime mobile service RR Appendix 18 channels		In force

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M.1849-0	2009-06	Technical and operational aspects of ground- based meteorological radars		In force
M.1851-0	2009-06	Mathematical models for radiodetermination radar systems antenna patterns for use in interference analyses		In force
M.1901-1	2013-12	Guidance on ITU-R Recommendations related to systems and networks in the radionavigation-satellite service operating in the frequency bands 1 164-1 215 MHz, 1 215-1 300 MHz, 1 559-1 610 MHz, 5 000-5 010 MHz and 5 010-5 030 MHz		In force
M.2012-0	2012-01	Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications Advanced (IMT-Advanced)		In force
M.2013-0	2012-01	Technical characteristics of, and protection criteria for non-ICAO aeronautical radionavigation systems, operating around 1 GHz		In force
M.2046-0	2013-12	Characteristics and protection criteria for non- geostationary mobile-satellite service systems operating in the band 399.9-400.05 MHz		In force

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Series P	Radioway	ve propagation		
P.528-3	2012-02	Propagation curves for aeronautical mobile and radionavigation services using the VHF, UHF and SHF bands	Note - Propagation curve tabulated values for Recommendation ITU-R P.528-3 provided in the zip file	In force
P.534-5	2012-02	Method for calculating sporadic-E field strength		In force
P.682-3	2012-02	Propagation data required for the design of Earth-space aeronautical mobile telecommunication systems		In force
P.684-6	2012-02	Prediction of field strength at frequencies below about 150 kHz		In force
P.832-3	2012-02	World Atlas of Ground Conductivities		In force
P.835-5	2012-02	Reference Standard Atmospheres		In force
P.837-6	2012-02	Characteristics of precipitation for propagation modelling	Note - Software implementation of the method for the conversion of rain rate statistics with different integration time for Recommendation ITU-R P.837-6 provided in the zip file	In force
P.1238-7	2012-02	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		In force
P.1239-3	2012-02	ITU-R reference ionospheric characteristics		In force
P.1853-1	2012-02	Tropospheric attenuation time series synthesis		In force
P.1817-1	2012-02	Propagation data required for the design of terrestrial free-space optical links		In force
P.681-7	2009-10	Propagation data required for the design of Earth-space land mobile telecommunication systems		In force
P.1815-1	2009-10	Differential rain attenuation		In force
P.1410-5	2012-02	Propagation data and prediction methods required for the design of terrestrial broadband radio access systems operating in a frequency range from 3 to 60 GHz		In force
P.453-10	2012-02	The radio refractive index: its formula and refractivity data		In force
P.1409-1	2012-02	Propagation data and prediction methods for systems using high altitude platform stations and other elevated stations in the stratosphere at frequencies greater than about 1 GHz		In force
P.1144-6	2012-02	Guide to the application of the propagation methods of Radiocommunication Study Group 3		In force

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P.310-9	1994-08	Definitions of terms relating to propagation in non-ionized media		In force
P.311-14	2013-09	Acquisition, presentation and analysis of data in studies of tropospheric propagation		In force
P.313-11	2012-02	Exchange of information for short-term forecasts and transmission of ionospheric disturbance warnings	Note - Suppressed on 10/10/13 (CACE/636)	Withdrawn
P.341-5	1999-10	The concept of transmission loss for radio links		In force
P.368-9	2007-02	Ground-wave propagation curves for frequencies between 10 kHz and 30 MHz		In force
P.369-6	1994-08	Reference atmosphere for refraction	Note - Withdrawn on 24/10/97 (RA-97) - This Recommendation has been replaced by Rec. ITU-R P.453-6	Withdrawn
P.370-7	1995-10	VHF and UHF propagation curves for the frequency range from 30 MHz to 1 000 MHz. Broadcasting services	Note - Suppressed on 22/10/01 (CACE/233)	Withdrawn
P.371-8	1999-07	Choice of indices for long-term ionospheric predictions		In force
P.372-11	2013-09	Radio noise		In force
P.373-9	2013-09	Definitions of maximum and minimum transmission frequencies		In force
P.434-6	1995-10	ITU-R reference ionospheric characteristics and methods of basic MUF, operational MUF and raypath prediction	Note - Withdrawn on 24/10/97 (RA-97) - This Recommendation has been replaced by Rec. ITU-R P.1239 and ITU-R P.1240	Withdrawn
P.452.15	2013-09	Prediction procedure for the evaluation of interference between stations on the surface of the Earth at frequencies above about 0.1 GHz		In force
P.525-2	1994-08	Calculation of free-space attenuation		In force
P.526-13	2013-11	Propagation by diffraction		In force
P.527-3	1992-03	Electrical characteristics of the surface of the Earth		In force
P.529-3	1999-10	Prediction methods for the terrestrial land mobile service in the VHF and UHF bands	Note - Suppressed on 22/10/01 (CACE/233)	Withdrawn
P.530-15	2013-09	Propagation data and prediction methods required for the design of terrestrial line-of-sight systems		In force
P.531-12	2013-09	Ionospheric propagation data and prediction methods required for the design of satellite services and systems		In force
P.532-1	1992-03	Ionospheric effects and operational considerations associated with artificial modification of the ionosphere and the radiowave channel		In force

Number	Approval d	ate Title	Observation	Status
P.533-12	2013-09	Method for the prediction of the performance of HF circuits		In force
P.581-2	1990-06	The concept of "worst month"		In force
P.616-0	1986-07	Propagation data for terrestrial maritime mobile services operating at frequencies above 30 MHz	Note - Suppressed on 22/10/01 (CACE/233)	Withdrawn
P.617-3	2013-09	Propagation prediction techniques and data required for the design of trans-horizon radio-relay systems		In force
P.618-11	2013-09	Propagation data and prediction methods required for the design of Earth-space telecommunication systems		In force
P.619-1	1992-03	Propagation data required for the evaluation of interference between stations in space and those on the surface of the Earth		In force
P.620-6	2005-03	Propagation data required for the evaluation of coordination distances in the frequency range 100 MHz to 105 GHz		In force
P.676-10	2013-09	Attenuation by atmospheric gases		In force
P.678-2	2013-09	Characterization of the natural variability of propagation phenomena		In force
P.679-3	2001-02	Propagation data required for the design of broadcasting-satellite systems		In force
P.680-3	1999-10	Propagation data required for the design of Earth-space maritime mobile telecommunication systems		In force
P.833-8	2013-09	Attenuation in vegetation		In force
P.834-6	2007-01	Effects of tropospheric refraction on radiowave propagation		In force
P.836-5	2013-09	Water vapour: surface density and total columnar content		In force
P.838-3	2005-03	Specific attenuation model for rain for use in prediction methods		In force
P.839-4	2013-09	Rain height model for prediction methods		In force
P.840-6	2013-09	Attenuation due to clouds and fog		In force
P.841-4	2005-03	Conversion of annual statistics to worst-month statistics		In force
P.842-5	2013-09	Computation of reliability and compatibility of HF radio systems		In force
P.843-1	1997-08	Communication by meteor-burst propagation		In force
P.844-1	1994-08	Ionospheric factors affecting frequency sharing in the VHF and UHF bands (30 MHz-3 GHz)		In force
P.845-3	1997-08	HF field-strength measurement		In force
P.846-1	1995-10	Measurements of ionospheric and related characteristics		In force
P.1057-3	2013-09	Probability distributions relevant to radiowave propagation modelling		In force

Number	Approval d	ate	Title	Observation	Status
P.1058-2	1999-10	Digital topo studies	ographic databases for propagation		In force
P.1060-0	1994-08		n factors affecting frequency sharing strial systems		In force
P.1145-0	1995-10		n data for the terrestrial land mobile he VHF and UHF bands	Note - Suppressed	Withdrawn
P.1146-0	1995-10	and terrest	tion of field strength for land mobile rial broadcasting services in the range from 1 to 3 GHz	Note - Suppressed on 22/10/01 (CACE/233)	Withdrawn
P.1147-4	2007-08		of sky-wave field strength at s between about 150 and 1 700 kHz		In force
P.1148-1	1997-05	and observ	ed procedure for comparing predicted ed HF sky-wave signal intensities and tation of such comparisons		In force
P.1240-1	2007-02		ods of basic MUF, operational MUF th prediction		In force
P.1321-4	2013-09		n factors affecting systems using lulation techniques at LF and MF		In force
P.1322-0	1997-08	Radiometri attenuation	c estimation of atmospheric า		In force
P.1406-1	2007-08		n effects relating to terrestrial land broadcasting services in the VHF and		In force
P.1407-5	2013-09	Multipath its characte	propagation and parameterization of eristics		In force
P.1411-7	2013-09	the plannir	n data and prediction methods for og of short-range outdoor nunication systems and radio local orks in the frequency range 300 MHz		In force
P.1412-0	1999-10	coordinatio	n data for the evaluation of on between Earth stations working in tionally allocated frequency bands		In force
P.1510-0	2001-02	Annual me	an surface temperature		In force
P.1511-0	2001-02	Topograph modelling	y for Earth-to-space propagation		In force
P.1546-5	2013-09		r point-to-area predictions for services in the frequency range 30 00 MHz		In force
P.1621-1	2005-03		n data required for the design of e systems operating between 20 THz Iz		In force
P.1622-0	2003-04		methods required for the design of e systems operating between 20 THz		In force
P.1623-1	2005-03	Prediction space path	method of fade dynamics on Earth- s		In force

Number	Approval da	ate Title	Observation	Status
P.1791-0	2007-01	Propagation prediction methods for assessment of the impact of ultra-wideband devices		In force
P.1812-3	2013-09	A path-specific propagation prediction method for point-to-area terrestrial services in the VHF and UHF bands		In force
P.1814-0	2007-08	Prediction methods required for the design of terrestrial free-space optical links		In force
P.1816-2	2013-09	The prediction of the time and the spatial profile for broadband land mobile services using UHF and SHF bands		In force
P.2001-1	2013-09	A general purpose wide-range terrestrial propagation model in the frequency range 30 MHz to 50 GHz		In force
P.2040	2013-09	Effects of building materials and structures on radiowave propagation above about 100 MHz		In force
P.2041	2013-09	Prediction of path attenuation on links between an airborne platform and Space and between an airborne platform and the surface of the Earth		In force

Number	Approval d	late Title	Observation	Status
Series RA	Radio ast	tronomy		
RA.1237-2	2010-01	Protection of the radio astronomy service from unwanted emissions resulting from applications of wideband digital modulation		In force
RA.1860-0	2010-01	Preferred frequency bands for radio astronomical measurements in the range 1-3 THz		In force
RA.314-10	2003-06	Preferred frequency bands for radio astronomical measurements		In force
RA.479-5	2003-05	Protection of frequencies for radioastronomical measurements in the shielded zone of the Moon		In force
RA.517-4	2006-05	Protection of the radio astronomy service from transmitters operating in adjacent bands		In force
RA.611-4	2006-03	Protection of the radio astronomy service from spurious emissions		In force
RA.769-2	2003-05	Protection criteria used for radio astronomical measurements		In force
RA.1031-2	2007-06	Protection of the radio astronomy service in frequency bands shared with other services		In force
RA.1272-1	2002-02	Protection of radio astronomy measurements above 60 GHz from ground based interference		In force
RA.1417-1	2013-12	A radio-quiet zone in the vicinity of the L2 Sun- Earth Lagrange point		In force
RA.1513-1	2003-05	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		In force
RA.1630-0	2003-05	Technical and operational characteristics of ground-based astronomy systems for use in sharing studies with active services between 10 THz and 1 000 THz		In force
RA.1631-0	2003-05	Reference radio astronomy antenna pattern to be used for compatibility analyses between non- GSO systems and radio astronomy service stations based on the epfd concept		In force
RA.1750-0	2006-03	Mutual planning between the Earth exploration- satellite service (active) and the radio astronomy service in the 94 GHz and 130 GHz		In force

Number	Approval d	ate Title	Observation	Status
Series RS	Remote s	ensing systems		
RS.515-5	2012-08	Frequency bands and bandwidths used for satellite passive remote sensing		In force
RS.1166-4	2009-02	Performance and interference criteria for active spaceborne sensors		In force
RS.2017-0	2012-08	Performance and interference criteria for satellite passive remote sensing		In force
RS.1813-1	2011-02	Reference antenna pattern for passive sensors operating in the Earth exploration-satellite service (passive) to be used in compatibility analyses in the frequency range 1.4-100 GHz		In force
RS.1858-0	2010-01	Characterization and assessment of aggregate interference to the Earth exploration-satellite service (passive) sensor operations from multiple sources of man made emissions		In force
RS.1859-0	2010-01	Use of remote sensing systems for data collection to be used in the event of natural disasters and similar emergencies		In force
RS.1861-0	2010-01	Typical technical and operational characteristics of Earth exploration-satellite service (passive) systems using allocations between 1.4 and 275 GHz		In force
RS.1883-0	2011-02	Use of remote sensing systems in the study of climate change and the effects thereof		In force
RS.1884-0	2011-02	Methodology for determining terrestrial and space-to-Earth sharing and coordination criteria for meteorological aids in the 400.15-406 MHz and 1 668 1 700 MHz bands		In force
RS.577-7	2009-02	Frequency bands and required bandwidths used for spaceborne active sensors operating in the Earth exploration-satellite (active) and space research (active) services		In force
RS.1263-1	2010-01	Interference criteria for meteorological aids operated in the 400.15-406 MHz and 1 668.4-1 700 MHz bands		In force
RS.516-1-0	1994-03	Feasibility of sharing between active sensors used on Earth exploration and meteorological satellites and the radiolocation service	Note - Suppressed (RA- 07) - This Recommendation replaces Rec. ITU-R SA.516-1	Withdraw
RS.1028-2	2003-05	Performance criteria for satellite passive remote sensing	Note - This Recommendation replaces Rec. ITU-R SA.1028-2 - Note - Withdrawn on 06/08/2012 (CACE/583)	Withdraw

Number	Approval d	ate Title	Observation	Status
RS.1029-2	2003-05	Interference criteria for satellite passive remote sensing	Note - This Recommendation replaces Rec. ITU-R SA.1029 2 - Note - Withdrawn on 06/08/2012 (CACE/583)	Withdrawn
RS.1165-2	2006-03	Technical characteristics and performance criteria for systems in the meteorological aids service in the 403 MHz and 1 680 MHz bands		In force
RS.1259-0	1997-06	Feasibility of sharing between spaceborne passive sensors and the fixed service from 50 to 60 GHz	Note - This Recommendation replaces Rec. ITU-R SA.1259	In force
RS.1260-1	2003-05	Feasibility of sharing between active spaceborne sensors and other services in the range 420-470 MHz	Note - This Recommendation replaces Rec. ITU-R SA.1260-1	In force
RS.1261-0	1997-06	Feasibility of sharing between spaceborne cloud radars and other services in the range of 92-95 GHz	Note - This Recommendation replaces Rec. ITU-R SA.1261	In force
RS.1262-0	1997-06	Sharing and coordination criteria for meteorological aids in the 400.15-406 MHz and 1 668.4-1 700 MHz bands	Note - This Recommendation replaces Rec. ITU-R SA.1262 - Suppressed on 18/02/11 (CACE/529)	Withdrawn
RS.1264-1	2003-05	Feasibility of frequency sharing between the meteorological aids service and the mobile-satellite service (Earth-to-space) in the 1 668.4-1 700 MHz band	Note - This Recommendation replaces Rec. ITU-R SA.1264-1	In force
RS.1279-0	1997-10	Spectrum sharing between spaceborne passive sensors and inter-satellite links in the range 50.2-59.3 GHz	Note - This Recommendation replaces Rec. ITU-R SA.1279	In force
RS.1280-0	1997-10	Selection of active spaceborne sensor emission characteristics to mitigate the potential for interference to terrestrial radars operating in frequency bands 1-10 GHz	Note - This Recommendation replaces Rec. ITU-R SA.1280	In force
RS.1281-0	1997-10	Protection of stations in the radiolocation service from emissions from active spaceborne sensors in the band 13.4-13.75 GHz	Note - This Recommendation replaces Rec. ITU-R SA.1281	In force
RS.1282-0	1997-10	Feasibility of sharing between wind profiler radars and active spaceborne sensors in the vicinity of 1 260 MHz	Note - This Recommendation replaces Rec. ITU-R SA.1282	In force
RS.1346-0	1998-02	Sharing between the meteorological aids service and medical implant communication systems (MICS) operating in the mobile service in the frequency band 401-406 MHz	Note - This Recommendation replaces Rec. ITU-R SA.1346	In force

Number	Approval d	ate Title Obse	rvation St	atus
RS.1347-0	1998-02		nmendation ces Rec. ITU-R	force
RS.1416-0	1999-10	1 9	nmendation ces Rec. ITU-R	force
RS.1449-0	2000-05	,	nmendation ces Rec. ITU-R	force
RS.1624-0	2003-05	· · · · · · · · · · · · · · · · · · ·	nmendation ces Rec. ITU-R	force
RS.1628-0	2003-05	'	nmendation ces Rec. ITU-R	force
RS.1632-0	2003-06	, , , , , ,	nmendation ces Rec. ITU-R	force
RS.1744-0	2006-03	0 ,	nmendation ces Rec. ITU-R	force
RS.1745-0	2006-03	,	- Identical to Rec. In SA.1745	force
RS.1749-0	2006-03	,	nmendation ces Rec. ITU-R	force
RS.1803-0	2007-06	Technical and operational characteristics for passive sensors in the Earth exploration-satellite (passive) service to facilitate sharing of the 10.6-10.68 GHz and 36-37 GHz bands with the fixed and mobile services	In	force
RS.1804-0	2007-06	Technical and operational characteristics of Earth exploration-satellite service (EESS) systems operating above 3 000 GHz	In	force
RS.1881-0	2011-02	Protection criteria for arrival time difference receivers operating in the meteorological aids service in the frequency band 9-11.3 kHz	In	force

Number	Approval da	ate Title	Observation	Status
Series S	Fixed-sate	ellite service		
S.1899-0	2012-01	Protection criteria and interference assessment methods for non-GSO inter-satellite links in the 23.183-23.377 GHz band with respect to the space research service		In force
S.1897-0	2012-01	Cross-layer QoS provisioning in IP-based hybrid satellite-terrestrial networks		In force
S.1878-0	2010-12	Multi-carrier based transmission techniques for satellite systems		In force
S.1003-2	2010-12	Environmental protection of the geostationary- satellite orbit		In force
S.732-1	2012-12	Method for statistical processing of earth station antenna side-lobe peaks to determine excess over antenna reference patterns and conditions for acceptability of any excess		In force
S.2029-0	2012-12	Statistical methodology to assess time-varying interference produced by a geostationary fixed-satellite service network of earth stations operating with MF-TDMA schemes to geostationary fixed-satellite service networks		In force
S.352-4	1982-07	Hypothetical reference circuit for systems using analogue transmission in the fixed-satellite service		In force
S.353-8	1994-09	Allowable noise power in the hypothetical reference circuit for frequency-division multiplex telephony in the fixed-satellite service		In force
S.354-2	1974-07	Video bandwidth and permissible noise level in the hypothetical reference circuit for the fixed- satellite service		In force
S.446-4	1993-04	Carrier energy dispersal for systems employing angle modulation by analogue signals or digital modulation in the fixed-satellite service		In force
S.464-2	1992-03	Pre-emphasis characteristics for frequency- modulation systems for frequency-division multiplex telephony in the fixed-satellite service		In force
S.465-6	2010-01	Reference radiation pattern of earth station antennas in the fixed-satellite service for use in coordination and interference assessment in the frequency range from 2 to 31 GHz		In force
S.466-6	1992-03	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		In force
S.481-2	1986-07	Measurement of noise in actual traffic for systems in the fixed-satellite service for telephony using frequency-division multiplex		In force

Number	Approval da	ate	Title	Observation	Status
S.482-2	1986-07	signal of a	ment of performance by means of a a uniform spectrum for systems using y-division multiplex telephony in the ellite service		In force
S.483-3	1997-05	televisior network i frequence	n permissible level of interference in a n channel of a geostationary-satellite in the fixed-satellite service employing y modulation, caused by other s of this service		In force
S.484-3	1992-03		eeping in longitude of geostationary in the fixed-satellite service		In force
S.521-4	2000-01		cical reference digital paths for systems ital transmission in the fixed-satellite		In force
S.522-5	1994-09	hypothet in the fixe	e bit error ratios at the output of the ical reference digital path for systems ed-satellite service using pulse-code on for telephony		In force
S.523-4	1992-03	geostatio satellite s	n permissible levels of interference in a mary-satellite network in the fixed- service using 8-bit PCM encoded y, caused by other networks of this		In force
S.524-9	2006-01	density fr satellite o satellite s	on permissible levels of off-axis e.i.r.p. From earth stations in geostationary- probit networks operating in the fixed- service transmitting in the 6 GHz, 13 GHz and 30 GHz frequency bands		In force
S.579-6	2005-04	reference digital pa pulse cod integrate reference	ty objectives for a hypothetical e circuits and hypothetical reference ths when used for telephony using le modulation, or as part of an d services digital network hypothetical e connection, in the fixed-satellite perating below 15 GHz		In force
S.580-6	2004-01	for anten	diagrams for use as design objectives nas of earth stations operating with nary satellites		In force
S.614-4	2005-02	hypothet satellite s forming p	e error performance for a satellite ical reference digital path in the fixed- service operating below 15 GHz when part of an international connection in ated services digital network		In force
S.670-1	1992-03	Flexibility design ob	in the positioning of satellites as a pjective		In force
S.671-3	1994-09	single cha	y protection ratios for narrow-band annel-per-carrier transmissions d with by analogue television carriers		In force
S.672-4	1997-09	design ob	antenna radiation pattern for use as a ojective in the fixed-satellite service g geostationary satellites		In force

Number	Approval da	ate	Title	Observation	Status
S.673-2	2002-03		nd definitions relating to space nmunications		In force
S.725-0	1992-03	Technica terminals	I characteristics for very small aperture (VSATs)		In force
S.726-1	1993-04		n permissible level of spurious s from very small aperture terminals		In force
S.727-2	2007-01		larization isolation from very small terminals (VSATs)	Note - Withdrawn on 05/02/2010 (CACE/503)	Withdrawn
S.728-1	1995-10		m permissible level of off-axis e.i.r.p. rom very small aperture terminals		In force
S.729-0	1992-03		nd monitoring function of very small terminals (VSATs)		In force
S.730-0	1992-03	discontin	sation of the effects of switching uities for voice band data and of requency-shifts in the fixed-satellite		In force
S.731-1	2005-04	radiation coordina	e earth-station cross-polarized pattern for use in frequency tion and interference assessment in the y range from 2 to about 30 GHz		In force
S.733-2	2000-01		nation of the G/T ratio for Earth stations g in the fixed-satellite service		In force
S.734-0	1992-03		ication of interference cancellers in the ellite service		In force
S.735-1	1993-04	geostation when for satellite s	m permissible levels of interference in a chary-satellite network for an HRDP ming part of the ISDN in the fixed-service caused by other networks of this elow 15 GHz		In force
S.736-3	1997-05	calculatio	on of polarization discrimination in ons of interference between onary-satellite networks in the fixed- service		In force
S.737-0	1992-03		ship of technical coordination methods e fixed-satellite service		In force
S.738-0	1992-03	required	re for determining if coordination is between geostationary-satellite sharing the same frequency bands		In force
S.739-0	1992-03	coordina geostatio	al methods for determining if detailed tion is necessary between onary-satellite networks in the fixed- service sharing the same frequency		In force
S.740-0	1992-03	Technica satellite i	I coordination methods for fixed- networks		In force
S.741-2	1994-09		o-interference calculations between s in the fixed- satellite service		In force

Number	Approval dat	te Title	Observation	Status
S.742-1	1993-04	Spectrum utilization methodologies		In force
S.743-1	1994-09	The coordination between satellite networks using slightly inclined geostationary-satellite orbits (GSOs) and between such networks and satellite networks using non-inclined GSO satellites		In force
S.744-0	1992-03	Orbit/spectrum improvement measures for satellite networks having more than one service in one or more frequency bands		In force
S.1001-2	2010-01	Use of systems in the fixed-satellite service in the event of natural disasters and similar emergencies for warning and relief operations		In force
S.1002-0	1993-04	Orbit management techniques for the fixed- satellite service		In force
S.1061-1	2007-01	Utilization of fade countermeasure strategies and techniques in the fixed-satellite service		In force
S.1062-4	2007-01	Allowable error performance for a satellite hypothetical reference digital path operating below 15 GHz		In force
S.1063-0	1994-09	Criteria for sharing between BSS feeder links and other Earth-to-space or space-to-Earth links of the FSS		In force
S.1064-1	1995-10	Pointing accuracy as a design objective for earthward antennas on board geostationary satellites in the fixed-satellite service		In force
S.1065-0	1994-09	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	Note - Suppressed on 27/04/06 (CACE/383)	Withdrawn
S.1066-0	1994-09	Ways of reducing the interference from the broadcasting-satellite service of one Region into the fixed-satellite service of another Region around 12 GHz	Note - Suppressed on 27/04/06 (CACE/383)	Withdrawn
S.1067-0	1994-09	Ways of reducing the interference from the broadcasting-satellite service into the fixed-satellite service in adjacent frequency bands around 12 GHz	Note - Suppressed on 27/04/06 (CACE/383)	Withdrawn
S.1068-0	1994-09	Fixed-satellite and radiolocation/radionavigation services sharing in the band 13.75-14 GHz		In force
S.1069-0	1994-09	Compatibility between the fixed-satellite service and the space science services in the band 13.75-14 GHz		In force
S.1149-2	2005-02	Network architecture and equipment functional aspects of digital satellite systems in the fixed-satellite service forming part of synchronous digital hierarchy transport networks		In force
S.1150-0	1995-10	Technical criteria to be used in examinations relating to the probability of harmful interference between frequency assignments in the fixed-satellite service as required in No. S11.32A.1 of the Radio Regulations		In force

Number	Approval da	te Title	Observation	Status
S.1151-0	1995-10	Sharing between the inter-satellite service involving geostationary satellites in the fixed-satellite service and the radionavigation service at 33 GHz		In force
S.1250-0	1997-05	Network management architecture for digital satellite systems forming part of SDH transport networks in the fixed-satellite service		In force
S.1251-0	1997-07	Network management - Performance management object class definitions for satellite systems network elements forming part of SDH transport networks in the fixed-satellite service		In force
S.1252-0	1997-05	Network management - Payload configuration object class definitions for satellite system network elements forming part of SDH transport networks in the fixed-satellite service		In force
S.1253-0	1997-05	Technical options to facilitate coordination of fixed-satellite service networks in certain orbital arc segments and frequency bands		In force
S.1254-0	1997-05	Best practices to facilitate the coordination process of fixed-satellite service satellite networks		In force
S.1255-0	1997-05	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		In force
S.1256-0	1997-05	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 nongeostationary satellite systems in the mobile-satellite service in the space-to-Earth direction		In force
S.1257-3	2002-03	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		In force
S.1323-2	2002-09	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 FSS networks below 30 GHz		In force
S.1324-0	1997-09	Analytical method for estimating interference between non-geostationary mobile-satellite feeder links and geostationary fixed-satellite networks operating co-frequency and codirectionally		In force

Number	Approval da	ate Title	Observation	Status
S.1325-3	2003-10	Simulation methodologies for determining statistics of short-term interference between co-frequency, codirectional non-geostationary-satellite orbit fixed-satellite service systems in circular orbits and other non-geostationary fixed-satellite service systems in circular orbits or geostationary-satellite orbit fixed-satellite service networks		In force
S.1326-0	1997-09	Feasibility of sharing between the inter-satellite service and the fixed-satellite service in the frequency band 50.4-51.4 GHz		In force
S.1327-0	1997-09	Requirements and suitable bands for operation of the inter-satellite service within the range 50.2-71 GHz		In force
S.1328-4	2002-09	Satellite system characteristics to be considered in frequency sharing analyses within the fixed-satellite service		In force
S.1329-0	1997-09	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		In force
S.1339-1	1999-11	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		In force
S.1340-0	1997-10	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		In force
S.1341-0	1997-10	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		In force
S.1342-0	1997-10	Method for determining coordination distances, in the 5 GHz band, between the international standard microwave landing system stations operating in the aeronautical radionavigation service and non-geostationary mobile-satellite service stations providing feeder uplink services		In force
S.1418-0	1999-11	Method for calculating single entry carrier-to- interference ratios for links in inter-satellite service using geostationary orbit		In force
S.1419-0	1999-11	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		In force

Number	Approval da	te Title	Observation	Status
S.1420-0	1999-11	Performance for broadband integrated services digital network asynchronous transfer mode via satellite		In force
S.1424-0	2000-01	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		In force
S.1425-0	2000-01	Transmission considerations for digital carriers using higher levels of modulation on satellite circuits		In force
S.1426-0	2000-01	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)		In force
S.1427-1	2006-01	Methodology and criterion to assess interference from terrestrial wireless access system/radio local area network transmitters to non-geostationary-satellite orbit mobile-satellite service feeder links in the band 5 150-5 250 MHz		In force
S.1428-1	2001-02	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		In force
S.1429-0	2000-01	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		In force
S.1430-0	2000-01	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		In force
S.1431-0	2000-01	Methods to enhance sharing between non-GSO FSS systems (except MSS feeder links) in the frequency bands between 10-30 GHz		In force
S.1432-1	2006-01	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 30 GHz		In force
S.1433-0	2000-01	Uplink and inter-satellite equivalent power flux- density radiated by non-GSO FSS Systems		In force

Number	Approval da	ate Title	Observation	Status
S.1503-1	2005-04	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 22 of the Radio Regulations		In force
S.1512-0	2001-02	Measurement procedure for determining non- geostationary satellite orbit satellite equivalent isotropically radiated power and antenna discrimination		In force
S.1521-1	2010-01	Allowable error performance for a hypothetical reference digital path based on synchronous digital hierarchy		In force
S.1522-1	2005-02	Impact of loss of synchronization recovery time on availability in hypothetical reference digital paths		In force
S.1523-0	2001-06	Methodology for performing parametric evaluation studies of interference sensitivity for geostationary-satellite orbit fixed-satellite service systems sharing spectrum in bands above 10 GHz		In force
S.1524-0	2001-06	Coordination identification between geostationary-satellite orbit fixed-satellite service networks		In force
S.1525-1	2002-09	Impact of interference from the Sun into a geostationary-satellite orbit fixed-satellite service link		In force
S.1526-1	2002-09	Methodology to assess the interference environment in relation to Nos. 9.12, 9.12A and 9.13 of the Radio Regulations when nongeostationary-satellite orbit fixed-satellite service systems are involved		In force
S.1527-0	2001-06	Procedure for the identification of non- geostationary-satellite orbit satellites causing interference into an operating geostationary- satellite orbit earth station		In force
S.1528-0	2001-06	Satellite antenna radiation patterns for non- geostationary orbit satellite antennas operating in the fixed-satellite service below 30 GHz		In force
S.1529-0	2001-06	Analytical method for determining the statistics of interference between non-geostationary-satellite orbit fixed-satellite service systems and other non-geostationary-satellite orbit fixed-satellite service systems or geostationary-satellite orbit fixed-satellite service networks		In force
S.1553-0	2002-03	A possible method to account for environmental and other effects on satellite antenna patterns		In force
S.1554-0	2002-03	Methodology for determining the overall accuracy of epfddown measurements		In force

Number	Approval da	te Title	Observation	Status
S.1555-0	2002-03	Aggregate interference levels between closely spaced dual circularly and dual linearly polarized geostationary-satellite networks in the fixed-satellite service operating in the 6/4 GHz frequency bands		In force
S.1556-0	2002-03	Methodology to determine the epfddown level corresponding to the loss of synchronization in geostationary fixed satellite service networks caused by interference from non-geostationary-satellite systems		In force
S.1557-0	2002-03	Operational requirements and characteristics of fixed-satellite service systems operating in the 50/40 GHz bands for use in sharing studies between the fixed-satellite service and the fixed service		In force
S.1558-0	2002-03	Methodologies for measuring epfddown caused by a non-geostationary-satellite orbit space station to verify compliance with operational epfdown limits		In force
S.1559-0	2002-03	Methodology for computing the geographical distribution of maximum downlink equivalent power flux-density levels generated by non-geostationary fixed-satellite service systems using circular orbits		In force
S.1560-0	2002-03	Methodology for the calculation of the worst- case interference levels from a particular type of non-geostationary fixed-satellite service system using highly-elliptical orbits into geostationary fixed-satellite service satellite networks operating in the 4/6 GHz frequency bands		In force
S.1586-1	2007-01	Calculation of unwanted emission levels produced by a non geostationary fixed-satellite service system at radio astronomy sites		In force
S.1587-2	2007-10	Technical characteristics of earth stations on board vessels communicating with FSS satellites in the frequency bands 5 925-6 425 MHz and 14- 14.5 GHz which are allocated to the fixed- satellite service		In force
S.1588-0	2002-09	Methodologies for calculating aggregate downlink equivalent power flux-density produced by multiple non-geostationary fixed- satellite service systems into a geostationary fixed-satellite service network		In force
S.1589-0	2002-09	Continuous curves of epfddown versus geostationary fixed-satellite service earth station antenna diameter and epfdup versus geostationary fixed-satellite service space station antenna beamwidth to indicate the protection afforded by systems complying with the limits to antennas with diameters other than those in Article 22 of the Radio Regulations		In force

Number	Approval dat	te Title	Observation	Status
S.1590-0	2002-09	Technical and operational characteristics of satellites operating in the range 20-375 THz		In force
S.1591-0	2002-09	Sharing of inter-satellite link bands around 23, 32.5 and 64.5 GHz between non-geostationary/geostationary inter-satellite links and geostationary/geostationary inter-satellite links		In force
S.1592-0	2002-09	Methodology to assess compliance of non- geostationary fixed-satellite service satellite systems in circular orbits with the additional operational limits on downlink equivalent power flux-density in Article 22 of the Radio Regulations		In force
S.1593-0	2002-09	Methodology for frequency sharing between certain types of homogeneous highly-elliptical orbit non-geostationary fixed-satellite service systems in the 4/6 GHz and 11/14 GHz frequency bands		In force
S.1594-0	2002-09	Maximum emission levels and associated requirements of high density fixed-satellite service earth stations transmitting towards geostationary fixed-satellite service space stations in the 30 GHz range		In force
S.1595-0	2002-09	Interference mitigation techniques to facilitate coordination between non-geostationary fixed-satellite service systems in highly elliptical orbit and non-geostationary fixed-satellite service systems in low and medium Earth orbit		In force
S.1647-0	2004-01	Methodology to determine the worst-case interference among certain types of non-GSO FSS systems in situations where no in-line interference exists		In force
S.1655-0	2003-10	Interference mitigation techniques and frequency sharing in the bands 37.5-42.5 GHz and 47.2-50.2 GHz between geostationary-satellite fixed-satellite service networks and non-geostationary-satellite fixed-satellite service systems		In force
S.1656-0	2004-01	Outline of a software specification for automating the examination of satellite network filings for compliance with Article 5 of the Radio Regulations		In force
S.1672-0	2004-01	Guidelines to be used in the event of non- compliance with single-entry operational and/or additional operational limits in Section II of Article 22 of the Radio Regulations		In force
S.1673-1	2010-01	Methodologies for the calculation of the worst- case interference levels from a non geostationary HEO-type fixed-satellite service system into geostationary fixed-satellite service satellite networks operating in the 10 to 30 GHz frequency bands		In force

Number	Approval d	ate	Title	Observation	Status
S.1709-1	2007-01		aracteristics of air interfaces for lband satellite systems		In force
S.1711-1	2010-01		e enhancements of transmission ocol over satellite networks		In force
S.1712-0	2005-04	earth station in the band pfd limits in	ies for determining whether an FSS of at a given location could transmit 13.75-14 GHz without exceeding the No. 5.502 of the Radio Regulations, es to mitigate excesses		In force
S.1713-1	2007-01	separation a a non-geost	by to calculate the minimum ingle at the Earth's surface between ationary HEO-type FSS satellite in its and a geostationary satellite		In force
S.1714-0	2005-04	facilitate cod	odology for calculating epfddown to ordination of very large antennas 9.7A and 9.7B of the Radio		In force
S.1715-0	2005-04		eveloped in response to the studies Resolution 140 (WRC-03)		In force
S.1716-0	2005-02		e and availability objectives for fixed- vice telemetry, tracking and vstems		In force
S.1717-0	2005-02	Electronic da antenna pat	ata file format for earth station terns		In force
S.1718-0	2005-02	GHz and ass which may by values in § 6	density values in the band 11.7-12.7 ociated calculation methodology be used when the power flux-density of Annex 1 to Appendix 30 of the ations are exceeded		In force
S.1758-0	2006-01	Characteriza fixed-satellit	etion of HEO-type systems in the		In force
S.1759-0	2006-01	operation tr networks an	nterference from HEO system space ansmissions in FSS bands into GSO d corresponding guidelines to be igning and operating TT&C for HEO- tem		In force
S.1779-0	2007-01		ics of fixed-satellite service systems and spreading signals		In force
S.1780-0	2007-01	orbit fixed sa	n between geostationary-satellite atellite service networks and g-satellite service networks in the 7.8 GHz		In force
S.1781-0	2007-01	between bid satellite serv	thodology for frequency sharing lirectional geostationary fixed- vice networks comprising deployed earth stations		In force
S.1782-0	2007-01		for global broadband Internet ed-satellite service systems		In force

Number	Approval da	te Title	Observation	Status
S.1783-0	2007-01	Technical and operational features characterizing high-density applications in the fixed-satellite service		In force
S.1806-0	2008-08	Availability objectives for hypothetical reference digital paths in the fixed-satellite service operating below 15 GHz		In force
S.1844-0	2009-02	Cross-polarization reference gain pattern for linearly polarized very small aperture terminals (VSAT) for frequencies in the range 2 to 31 GHz		In force
S.1855-0	2010-01	Alternative reference radiation pattern for earth station antennas used with satellites in the geostationary-satellite orbit for use in coordination and/or interference assessment in the frequency range from 2 to 31 GHz		In force
S.1856-0	2010-01	Methodologies for determining whether an IMT station at a given location operating in the band 3 400-3 600 MHz would transmit without exceeding the power flux-density limits in the Radio Regulations Nos. 5.430A, 5.432A, 5.432B and 5.433A		In force
S.1857-0	2010-01	Methodologies to estimate the off-axis e.i.r.p. density levels and to assess the interference towards adjacent satellites resulting from pointing errors of vehicle mounted earth stations in the 14 GHz frequency band		In force
S.2049	2013-12	Access procedures for fixed-satellite service occasional use, transmissions to geostationary-satellite orbit space stations, in the 4/6 GHz and 11-12/13/14 GHz FSS bands		In force

Number	Approval da	ite Title	Observation	Status
Series SA	Space app	lications and meteorology		
SA.1862-0	2010-01	Guidelines for efficient use of the band 25.5-27.0 GHz by the Earth exploration-satellite service (space-to-Earth) and space research service (space-to-Earth)		In force
SA.1026-4	2009-02	Aggregate 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	2	In force
SA.1345-1	2010-01	Methods for predicting radiation patterns of large antennas used for space research and radio astronomy		In force
SA.1027-4	2009-02	Sharing criteria for space-to-Earth data transmission systems in the Earth exploration-satellite and meteorological-satellite services using satellites in low-Earth orbit		In force
SA.1014-2	2011-02	Telecommunication requirements for manned and unmanned deep-space research		In force
SA.1863-0	2010-01	Radiocommunications used for emergency in manned space flight		In force
SA.1882-0	2011-02	Technical and operational characteristics of space research service (Earth-to-space) systems for use in the 22.55-23.15 GHz band		In force
SA.2045	2013-09	Basic general partitioning and sharing conditions for the band 401-403 MHz for future long-term coordinated use of data collection systems on geostationary and non-geostationary METSAT and EESS systems		In force
SA.362-2	1982-07	Frequencies technically suitable for meteorological satellites	Note - Withdrawn on 24/10/97 (RA-97)	Withdrawn
SA.363-5	1994-03	Space operation systems		In force
SA.364-5	1992-03	Preferred frequencies and bandwidths for manned and unmanned near-Earth research satellites		In force
SA.509-3	2013-12	Space research earth station and radio astronomy reference antenna radiation pattern for use in interference calculations, including coordination procedures		In force
SA.510-2	1997-10	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		In force
SA.513-1	1986-07	Preferred frequency bands for spacecraft transmitters used as beacons	Note - Withdrawn on 24/10/97 (RA-97)	Withdrawn
SA.514-3	1997-10	Interference criteria for command and data transmission systems operating in the Earth exploration-satellite and meteorological-satellite services		In force

Number	Approval da	nte Title	Observation	Status
SA.578-0	1982-07	Protection criteria and sharing considerations relating to deep-space research	Note - Suppressed on 24/10/97 (RA-97)	Withdrawn
SA.609-2	2006-03	Protection criteria for radiocommunication links for manned and unmanned near-Earth research satellites		In force
SA.1012-0	1994-03	Preferred frequency bands for deep-space research in the 1-40 GHz range	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn
SA.1013-0	1994-03	Preferred frequency bands for deep-space research in the 40-120 GHz range	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn
SA.1015-1	2007-06	Bandwidth requirements for deep-space research		In force
SA.1016-0	1994-03	Sharing considerations relating to deep-space research		In force
SA.1017-0	1994-03	Preferred method for calculating link performance in the space research service	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn
SA.1018-0	1994-03	Hypothetical reference system for systems comprising data relay satellites in the geostationary orbit and user spacecraft in low Earth-orbits		In force
SA.1019-0	1994-03	Preferred frequency bands and transmission directions for data relay satellite systems		In force
SA.1020-0	1994-03	Hypothetical reference system for the Earth exploration-satellite and meteorological satellite services		In force
SA.1021-0	1994-03	Methodology for determining performance objectives for systems in the Earth exploration-satellite and meteorological-satellite services		In force
SA.1022-1	1999-10	Methodology for determining interference criteria for systems in the Earth exploration-satellite and meteorological-satellite services		In force
SA.1023-0	1994-03	Methodology for determining sharing and coordination criteria for systems in the Earth exploration-satellite and meteorological-satellite services		In force
SA.1024-1	1997-06	Necessary bandwidths and preferred frequency bands for data transmission from Earth exploration satellites (not including meteorological satellites)		In force
SA.1025-3	1999-10	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		In force
SA.1030-0	1994-03	Telecommunication requirements of satellite systems for geodesy and geodynamics		In force
SA.1071-0	1994-07	Use of the 13.75 to 14.0 GHz band by the space science services and the fixed satellite service	Note - Suppressed (RA-07)	Withdrawn

Number	Approval da	ate Title	Observation	Status
SA.1154-0	1995-10	Provisions to protect the space research (SR), space operations (SO) and Earth exploration-satellite services (EESS) and to facilitate sharing with the mobile service in the 2 025-2 110 MHz and 2 200-2 290 MHz bands		In force
SA.1155-1	2013-12	Protection criteria related to the operation of data relay satellite systems		In force
SA.1156-0	1995-10	_	Note - Suppressed (RA- 07)	Withdrawn
SA.1157-1	2006-03	Protection criteria for deep-space research		In force
SA.1158-3	2003-05	Feasibility of frequency sharing in the 1 670-1 710 MHz band between the meteorological-satellite service (space-to-Earth) and the mobile-satellite service (Earth-to-space)		In force
SA.1159-3	2006-03	Performance criteria for data dissemination, data collection and direct data readout systems in the Earth exploration-satellite service and meteorological-satellite service		In force
SA.1160-2	1999-10	Interference criteria for data dissemination and direct data readout systems in the earth exploration-satellite and meteorological-satellite services using satellites in the geostationary orbit		In force
SA.1161-1	1999-10	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		In force
SA.1162-2	2003-05	Performance criteria for service links in data collection and platform location systems in the Earth exploration- and meteorological-satellite services		In force
SA.1163-2	1999-10	Interference criteria for service links in data collection systems in the Earth exploration-satellite and meteorological-satellite services		In force
SA.1164-2	1999-10	Sharing and coordination criteria for service links in data collection systems in the Earth exploration-satellite and meteorological-satellite services		In force
SA.1236-0	1997-02		Note - Suppressed on 19/01/11 (CACE/522)	Withdrawn
SA.1258-1	1999-10	Sharing of the frequency band 401-403 MHz between the meteorological-satellite service, Earth exploration-satellite service and meteorological Aids service		In force

Number	Approval da	ate Title	Observation	Status
SA.1273-0	1997-10	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		In force
SA.1274-0	1997-10	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		In force
SA.1275-4	2013-12	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		In force
SA.1276-4	2013-12	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		In force
SA.1277-0	1997-10	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		In force
SA.1278-0	1997-10	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	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn
SA.1344-1	2009-02	Preferred frequency bands and bandwidths for the transmission of space VLBI data within existing space research service (SRS) allocations		In force
SA.1396-0	1999-04	Protection criteria for the space research service in the 37-38 and 40-40.5 GHz bands		In force
SA.1414-1	2013-12	Characteristics of data relay satellite systems		In force
SA.1415-0	1999-10	Sharing between inter-satellite service systems in the frequency band 25.25-27.5 GHz		In force
SA.1625-0	2003-05	Feasibility of sharing between the space research service (space-to-Earth) and the fixed, inter-satellite, and mobile services in the band 25.5-27 GHz	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn
SA.1626-1	2013-12	Feasibility of sharing between the space research service (space-to-Earth) and the fixed and mobile services in the band 14.8-15.35 GHz		In force
SA.1627-0	2003-05	Telecommunication requirements and characteristics of EESS and MetSat service systems for data collection and platform location		In force
SA.1629-0	2003-05	Sharing between command links in the space research and space operation services with the fixed, mobile and mobile-satellite services in the frequency band 257-262 MHz		In force
SA.1742-0	2006-03	Technical and operational characteristics of interplanetary and deep-space systems operating in the space-to-Earth direction around 283 THz		In force

Number	Approval dat	te Title	Observation	Status
SA.1743-0	2006-03	Maximum allowable degradation to radiocommunication links of the space research and space operation services arising from interference from emissions and radiations from other radio sources		In force
SA.1745-0	2006-03	Use of the band 1 668.4 1 710 MHz by the meteorological aids service and meteorological-satellite service (space-to-Earth)	Note - Identical to Rec. UIT-R RS.1745	In force
SA.1805-0	2007-06	Technical and operational characteristics of space-to-space telecommunication systems operating around 354 THz and 366 THz		In force
SA.1807-0	2007-06	System characteristics and interference criteria for meteorological satellite systems operating around 18 GHz		In force
SA.1810-0	2007-06	System design guidelines for Earth exploration- satellites operating in the band 8 025-8 400 MHz		In force
SA.1811-0	2007-06	Reference antenna patterns of large-aperture space research service earth stations to be used for compatibility analyses involving a large number of distributed interference entries in the bands 31.8-32.3 GHz and 37.0-38.0 GHz		In force
SA.2044	2013-12	Protection criteria for non-GSO data collection platforms in the band 401-403 MHz		In force

Number	Approval dat	te Title	Observation	Status
Series SF	Frequency	sharing and coordination between fixed-sa	atellite and fixed servi	ce systems
SF.1649-1	2008-08	Guidance for determination of interference from earth stations on board vessels to stations in the fixed service when the earth station on board vessels is within the minimum distance		In force
SF.675-4	2012-01	Calculation of the maximum power density (averaged over 4 kHz or 1 MHz) of angle-modulated and digital carriers		In force
SF.355-4	1992-03	Frequency sharing between systems in the fixed- satellite service and radio-relay systems in the same frequency bands	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.356-4	1978-07	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		In force
SF.357-4	1997-05	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		In force
SF.358-5	1995-10	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	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.406-8	1993-04	Maximum equivalent isotropically radiated power of radio-relay system transmitters operating in the frequency bands shared with the fixed-satellite service	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.558-2	1986-07	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	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.615-1	1997-05	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	Note - This Recommendation has been replaced by Rec. ITU-R F.1565 - Withdrawn on 07/02/03 (CACE/281)	Withdrawn
SF.674-3	2013-12	Determination of the impact on the fixed service operating in the 11.7-12.2 GHz band when geostationary fixed-satellite service networks in Region 2 exceed power flux-density thresholds for coordination	·	In force
SF.765-1	2003-02	Intersection of radio-relay antenna beams with orbits used by space stations in the fixed-satellite service		In force

Number	Approval dat	e Title	Observation	Status
SF.766-0	1992-03	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		In force
SF.1004-0	1993-04	Maximum equivalent isotropically radiated power transmitted towards the horizon by earth stations of the fixed-satellite service sharing frequency bands with the fixed service	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.1005-0	1993-04	Sharing between the fixed service and the fixed- satellite service with bidirectional usage in bands above 10 GHz currently unidirectionally	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.1006-0	1993-04	Determination of the interference potential between earth stations of the fixed-satellite service and stations in the fixed service		In force
SF.1008-1	1995-10	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	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.1193-0	1995-10	Carrier-to-interference calculations between earth stations in the fixed-satellite service and radio-relay systems	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.1320-0	1997-08	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	Note - Suppressed on 15/06/2009 (CACE/482)	Withdrawn
SF.1395-0	1999-03	Minimum propagation attenuation due to atmospheric gases for use in frequency sharing studies between the fixed-satellite service and the fixed service		In force
SF.1481-1	2002-02	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	Note - Suppressed on 12/01/2012 (CACE/556)	Withdrawn
SF.1482-0	2000-05	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		In force
SF.1483-0	2000-05	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		In force
SF.1484-1	2002-05	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 37.5-42.5 GHz band to protect the fixed service	Note - Suppressed on 20/12/10 (CACE/520)	Withdrawn

Number	Approval da	ate Title	Observation	Status
SF.1485-0	2000-05	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		In force
SF.1486-0	2000-05	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		In force
SF.1572-0	2002-05	Methodology to evaluate the impact of space-to- Earth interference from the fixed-satellite service to the fixed service in frequency bands where precipitation is the predominant fade mechanism		In force
SF.1573-0	2002-05	Maximum allowable values of power flux- density at the surface of the Earth by geostationary satellites in the fixed-satellite service operating in the 37.5-42.5 GHz band to protect the fixed service	Note - Suppressed on 20/12/10 (CACE/520)	Withdrawn
SF.1585-0	2002-09	Example approach for determination of the composite area within which interference to fixed service stations from earth stations on board vessels when operating in motion near a coastline would need to be evaluated		In force
SF.1601-2	2007-02	Methodologies for interference evaluation from the downlink of the fixed service using high altitude platform stations to the uplink of the fixed-satellite service using the geostationary satellites within the band 27.5-28.35 GHz		In force
SF.1602-0	2003-02	Methodology for determining power flux- density statistics for use in sharing studies between fixed wireless systems and multiple fixed-satellite service satellites		In force
SF.1648-0	2003-06	Use of frequencies by earth stations on board vessels transmitting in certain bands allocated to the fixed-satellite service		In force
SF.1650-1	2005-02	The minimum distance from the baseline beyond which in-motion earth stations located on board vessels would not cause unacceptable interference to the terrestrial service in the bands 5 925-6 425 MHz and 14-14.5 GHz		In force
SF.1707-0	2005-04	Methods to facilitate the implementation of large numbers of earth stations in the FSS in areas where terrestrial services are also deployed		In force
SF.1719-0	2005-02	Sharing between point-to-point and point-to-multipoint fixed service and transmitting earth stations of GSO and non-GSO FSS systems in the 27.5-29.5 GHz band		In force

Number	Approval d	ate Title	Observation	Status
SF.1843-0	2007-10	Methodology for determining the p for high altitude platform stations g terminals to facilitate sharing with s receivers in the bands 47.2-47.5 GH 48.2 GHz	round space station	In force

Number	Approval d	ate Title Observation	Status
Series SM	Spectrum	n management	
SM.337-6	2008-10	Frequency and distance separations	In force
SM.1896-0	2011-11	Frequency ranges for global or regional harmonization of short-range devices (SRDs)	In force
SM.1392-2	2011-02	Essential requirements for a spectrum monitoring system for developing countries	In force
SM.1138-2	2008-10	Determination of necessary bandwidths including examples for their calculation and associated examples for the designation of emissions	In force
SM.1268-2	2011-02	Method of measuring the maximum frequency deviation of FM broadcast emissions at monitoring stations	In force
SM.1047-2	2012-09	National spectrum management	In force
SM.1723-2	2011-09	Mobile spectrum monitoring unit	In force
SM.854-3	2011-09	Direction finding and location determination at monitoring stations	In force
SM.1708-1	2011-09	Field-strength measurements along a route with geographical coordinate registrations	In force
SM.1600-1	2012-09	Technical identification of digital signals	In force
SM.1603-1	2012-09	Spectrum redeployment as a method of national spectrum management	In force
SM.1682-1	2011-09	Methods for measurements on digital broadcasting signals	In force
SM.1753-2	2012-09	Methods for measurements of radio noise	In force
SM.1880-0	2011-02	Spectrum occupancy measurement	In force
SM.329-12	2012-09	Unwanted emissions in the spurious domain	In force
SM.2028-0	2012-09	Protection distance calculation between inductive systems and radiocommunication services using frequencies below 30 MHz	In force
SM.1839-1	2011-09	Test procedure for measuring the scanning speed of radio monitoring receivers	In force
SM.182-5	2007-02	Automatic monitoring of occupancy of the radio- frequency spectrum Note - Suppress 16/02/11 (CAC)	
SM.239-2	1978-07	Spurious emissions from sound and television Note - Suppress 06/06/03 (RA-0	
SM.326-7	1998-11	Determination and measurement of the power of amplitude-modulated radio transmitters	In force
SM.328-11	2006-05	Spectra and bandwidth of emissions	In force
SM.331-4	1978-07	Noise and sensitivity of receivers	In force
SM.332-4	1978-07	Selectivity of receivers	In force
SM.377-4	2007-02	Accuracy of frequency measurements at stations for international monitoring	In force

Number	Approval da	ite Title	Observation	Status
SM.378-7	2007-02	Field-strength measurements at monitoring stations		In force
SM.433-5	1992-03	Methods for the measurement of radio interference and the determination of tolerable levels of interference	Note - Suppressed on 06/06/03 (RA-03)	Withdraw
SM.443-4	2007-02	Bandwidth measurement at monitoring stations		In force
SM.508-0	1978-07	Use of radio-noise data in spectrum utilization studies	Note - Suppressed on 24/10/97 (RA-97)	Withdraw
SM.575-2	2013-10	Protection of fixed monitoring stations against interference from nearby or stong transmitters		In force
SM.667-0	1990-06	National spectrum management data	Note - Suppressed on 22/09/11 (CACE/548)	Withdraw
SM.668-1	1997-03	Electronic exchange of information for spectrum management purposes		In force
SM.669-1	1994-07	Protection ratios for spectrum sharing investigations	Note – Suppressed on 02/06/2006 (CACE/389)	Withdraw
SM.851-1	1993-04	Sharing between the broadcasting service and the fixed and/or mobile services in the VHF and UHF bands	Note - This Recommendation replaces Rec. ITU-R IS.851	In force
SM.852-0	1992-03	Sensitivity of radio receivers for class of emissions F3E		In force
SM.853-1	1997-10	Necessary bandwidth		In force
SM.855-1	1997-10	Multi-service telecommunication systems		In force
SM.856-1	1997-03	New spectrally efficient techniques and systems		In force
SM.1009-1	1995-10	Compatibility between the sound-broadcasting service in the band of about 87-108 MHz and the aeronautical services in the band 108-137 MHz	Note - This Recommendation replaces Rec. ITU-R IS.1009	In force
SM.1045-1	1997-07	Frequency tolerance of transmitters		In force
SM.1046-2	2006-05	Definition of spectrum use and efficiency of a radio system		In force
SM.1048-0	1994-07	Design guidelines for a basic automated spectrum management system (BASMS)	Note - Suppressed on 22/09/11 (CACE/548)	Withdraw
SM.1049-1	1995-10	A method of spectrum management to be used for aiding frequency assignment for terrestrial services in border areas		In force
SM.1050-2	2004-01	Tasks of a monitoring service		In force
SM.1051-2	1997-07	Priority of identifying and eliminating harmful interference in the band 406-406.1 MHz		In force
SM.1052-0	1994-07	Automatic identification of radio stations	Note -Suppressed on 13/09/2012 (CACE/585)	Withdraw
SM.1053-0	1994-07	Methods of improving HF direction-finding accuracy at fixed stations	Note - Suppressed on 06/03/07 (CACE/418)	Withdraw
SM.1054-0	1994-07	Monitoring of radio emissions from spacecraft at monitoring stations		In force
SM.1055-0	1994-07	The use of spread spectrum techniques		In force

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SM.1056-1	2007-04	Limitation of radiation from industrial, scientific and medical (ISM) equipment		In force
SM.1131-0	1995-10	Factors to consider in allocating spectrum on a worldwide basis		In force
SM.1132-2	2001-07	General principles and methods for sharing between radiocommunication services or between radio stations		In force
SM.1133-0	1995-10	Spectrum utilization of broadly defined services		In force
SM.1134-1	2007-02	Intermodulation interference calculations in the land-mobile service		In force
SM.1135-0	1995-10	SINPO and SINPFEMO codes		In force
SM.1139-0	1995-10	International monitoring system		In force
SM.1140-0	1995-10	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		In force
SM.1235-0	1997-03	Performance functions for digital modulation systems in an interference environment		In force
SM.1265-1	2001-07	National alternative allocation methods		In force
SM.1266-0	1997-07	Adaptive MF/HF systems		In force
SM.1267-0	1997-07	Collection and publication of monitoring data to assist frequency assignment for geostationary satellite systems	Note - Suppressed on 13/09/2012 (CACE/585)	Withdrawn
SM.1269-0	1997-07	Classification of direction finding bearings	Note - Suppressed on 06/03/07 (CACE/418)	Withdrawı
SM.1270-0	1997-07	Additional information for monitoring purposes related to classification and designation of emission		In force
SM.1271-0	1997-10	Efficient spectrum utilization using probabilistic methods		In force
SM.1370-2	2013-08	Design guidelines for developing automated spectrum management systems		In force
SM.1393-0	1999-01	Common formats for the exchange of information between monitoring stations		In force
SM.1394-0	1999-01	Common format for Memorandum of Understanding between the agreeing countries regarding cooperation in spectrum monitoring matters		In force
SM.1413-2	2005-06	Radiocommunication Data Dictionary for notification and coordination purposes		In force
SM.1446-0	2000-04	Definition and measurement of intermodulation products in transmitter using frequency, phase, or complex modulation techniques		In force

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SM.1447-0	2000-04	Monitoring of the radio coverage of land mobile networks to verify compliance with a given licence		In force
SM.1448 Corri	2000-05	Corrigendum to Rec. ITU-R.SM.1448		In force
SM.1448-0	2000-05	Determination of the coordination area around an earth station in the frequency bands between 100 MHz and 105 GHz		In force
SM.1535-0	2001-07	The protection of safety services from unwanted emissions		In force
SM.1536-0	2001-07	Frequency channel occupancy measurements	Note - Suppressed on 16/02/11 (CACE/528)	Withdrawi
SM.1537-1	2013-08	Automation and integration of spectrum monitoring systems with automated spectrum management		In force
SM.1538-2	2006-05	Technical and operating parameters and spectrum requirements for short range radiocommunication devices	Note - Suppressed on 28/04/10 (CACE/510)	Withdrawn
SM.1539-1	2002-11	Variation of the boundary between the out-of- band and spurious domains required for the application of Recommendations ITU-R SM.1541 and ITU-R SM.329		In force
SM.1540-0	2001-07	Unwanted emissions in the out-of-band domain falling into adjacent allocated bands		In force
SM.1541-5	2013-08	Unwanted emissions in the out-of-band domain		In force
SM.1542-0	2001-07	The protection of passive services from unwanted emissions		In force
SM.1598-0	2002-10	Methods of radio direction finding and location on time division multiple access and code division multiple access signals		In force
SM.1599-1	2007-02	Determination of the geographical and frequency distribution of the spectrum utilization factor for frequency planning		In force
SM.1604-0	2003-02	Guidelines for an upgraded spectrum management system for developing countries		In force
SM.1633-0	2003-06	Compatibility analysis between a passive service and an active service allocated in adjacent and nearby bands		In force
SM.1681-0	2004-05	Measuring of low-level emissions from space stations at monitoring earth stations using noise reduction techniques		In force
SM.1751-0	2006-05	An additional methodology for the evaluation of the effect of interference between radiocommunication networks operating in a shared frequency band		In force
SM.1752-0	2006-05	Limits for unwanted emissions under free-space condition	Note - Suppressed on 13/09/2012 (CACE/585)	Withdrawr
SM.1754-0	2006-05	Measurement techniques of ultra-wideband transmissions		In force

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SM.1755-0	2006-05	Characteristics of ultra-wideband technology		In force
SM.1756-0	2006-05	Framework for the introduction of devices using ultra-wideband technology		In force
SM.1757-0	2006-05	Impact of devices using ultra-wideband technology on systems operating within radiocommunication services		In force
SM.1792-0	2007-02	Measuring sideband emissions of T-DAB and DVB-T transmitters for monitoring purposes		In force
SM.1793-0	2007-02	Measuring frequency channel occupancy using the technique used for frequency band measurement	Note - Suppressed on 16/02/11 (CACE/528)	Withdrawn
SM.1794-0	2007-02	Wideband instantaneous bandwidth spectrum monitoring systems		In force
SM.1809-0	2007-04	Standard data exchange format for frequency band registrations and measurements at monitoring stations		In force
SM.1836-0	2007-12	Test procedure for measuring the properties of the IF filter of radio monitoring receivers		In force
SM.1837-1	2013-08	Test procedure for measuring the 3rd order intercept point (IP3) level of radio monitoring receivers		In force
SM.1838-0	2007-12	Test procedure for measuring the noise figure of radio monitoring receivers		In force
SM.1840-0	2007-12	Test procedure for measuring the sensitivity of radio monitoring receivers using analogue-modulated signals		In force
SM.1875-1	2013-08	DVB-T coverage measurements and verification of planning criteria		In force
SM.1879-2	2013-08	The impact of power line high data rate telecommunication systems on radiocommunication systems below 470 MHz		In force
SM.2039-0	2013-08	Spectrum monitoring evolution		In force

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Series SNG	Satellite no	ews gathering		
SNG.770-2	2012-01	Uniform operational procedures for digital satellite news gathering (DSNG)		In force
SNG.722-1	1992-03	Uniform technical standards (analogue) for satellite news gathering (SNG)		In force
SNG.771-1	1993-04	Auxiliary coordination satellite circuits for SNG terminals		In force
SNG.1007-1	1995-10	Uniform technical standards (digital) for satellite news gathering (SNG)		In force
SNG.1070-0	1994-09	An automatic transmitter identification system (ATIS) for analogue-modulation transmissions for satellite news gathering and outside broadcasts		In force
SNG.1152-0	1995-10	Use of digital transmission techniques for Satellite News Gathering (SNG) (sound)		In force
SNG.1421-0	1999-11	Common operating parameters to ensure interoperability for transmission of digital television news gathering		In force
SNG.1561-0	2002-03	Digital transmission of high-definition television for satellite news gathering and outside broadcasting		In force
SNG.1710-0	2005-04	Satellite news gathering carriers universal access procedures		In force

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Series TF	Time signals and frequency standards emissions					
TF.2018-0	2012-08	Relativistic time transfer in the vicinity of the Earth and in the solar system		In force		
TF.1153-3	2010-04	The operational use of two-way satellite time and frequency transfer employing pseudorandom noise codes		In force		
TF.374-5	1999-04	Precise frequency and time-signal transmissions		In force		
TF.375-2	1982-07	Standard-frequency and time-signal emissions in additional frequency bands	Note - Suppressed on 24/10/97 (RA-97)	Withdrawn		
TF.376-1	1966-07	Avoidance of external interference with emissions of the standard-frequency service in the bands allocated to that service	Note - Suppressed on 24/10/97 (RA-97)	Withdrawn		
TF.457-2	1997-10	Use of the modified Julian date by the standard- frequency and time-signal services		In force		
TF.458-3	1998-02	International comparisons of atomic time scales	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn		
TF.460-6	2002-02	Standard-frequency and time-signal emissions		In force		
TF.485-2	1990-06	Use of time scales in the field of standard- frequency and time services	Note - Suppressed on 24/10/97 (RA-97)	Withdrawn		
TF.486-2	1998-02	Use of UTC frequency as reference in standard frequency and time signal emissions		In force		
TF.535-2	1998-02	Use of the term UTC		In force		
TF.536-2	2003-05	Time-scale notations	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn		
TF.537-0	1978-07	Reduction of mutual interference between emissions of the standard-frequency and timesignal service on the allocated frequencies in bands 6 and 7	Note - Suppressed on 24/10/97 (RA-97)	Withdrawn		
TF.538-3	1994-03	Measures for random instabilities in frequency and time (phase)		In force		
TF.582-2	1998-02	Time and frequency reference signal dissemination and coordination using satellite methods	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn		
TF.583-6	2003-05	Time codes		In force		
TF.685-0	1990-06	International synchronization of UTC time scale	Note - Suppressed on 24/10/97 (RA-97)	Withdrawn		
TF.686-3	2013-12	Glossary and definitions of time and frequency terms		In force		
TF.767-2	2001-03	Use of global navigation satellite systems for high-accuracy time transfer		In force		
TF.768-7	2011-04	Standard frequencies and time signals		In force		
TF.1010-1	1997-10	Relativistic effects in a coordinate time system in the vicinity of the Earth		In force		
TF.1011-1	1997-10	Systems, techniques and services for time and frequency transfer		In force		

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TF.1552-0	2002-02	Time scales for use by standard-frequency and time-signal services	Note - Suppressed on 18/02/11 (CACE/529)	Withdrawn
TF.1876-0	2010-04	Trusted time source for Time Stamp Authority		In force

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Series V	Vocabulary and related subjects					
V.430-3	1990-06	Use of the international system of units (SI)		In force		
V.431-7	2000-05	Nomenclature of the frequency and wavelength bands used in telecommunications		In force		
V.461-5	1993-04	Graphical symbols and rules for the preparation of documentation in telecommunications		In force		
V.573-5	2007-09	Radiocommunication vocabulary		In force		
V.574-4	2000-05	Use of the decibel and the neper in telecommunications		In force		
V.607-3	2000-05	Terms and symbols for information quantities in telecommunications	Note - Withdrawn on 19/10/07 (RA-07). Replaced by the ITU-R Database	Withdrawn		
V.608-2	1993-04	Letter symbols for telecommunications	Note - Withdrawn on 06/06/03 (RA-03)	Withdrawn		
V.662-3	2000-05	Terms and definitions		In force		
V.663-1	1990-06	Use of certain terms linked with physical quantities		In force		
V.664-0	1986-07	Adoption of the CCITT Specification and Description Language (SDL)	Note - Withdrawn (RA- 2000)	Withdrawn		
V.665-2	2000-05	Traffic intensity unit		In force		
V.666-2	1993-04	Abbreviations and initials used in telecommunications		In force		