Ettevõtlus- ja infotehnoloogiaministri 26.10.2017 määrus nr 54 "Eesti raadiosagedusplaan" Lisa 2 (muudetud sõnastuses)

EESTI RAADIOSAGEDUSPLAANIS KASUTATUD TÄHISTE JA LÜHENDITE SELGITUSED

I. Raadiosagedusplaanis kasutatud tähiste ja lühendite selgitused

Lühend	Tähendus
ACAS	Kokkupõrke vältimise süsteem (Automatic Collision Avoidance
	system)
AGA	Õhk-Maa-Õhk side (Air-Ground-Air operation)
AES	Õhusõiduki pardale paigaldatav kosmoseside maajaam (Aircraft
	Earth Station)
AIS	Universaalne laevade identifitseerimissüsteem (Automatic
	Identification and Surveillance system)
AM	Amplituudmodulatsioon (Amplitude modulation)
App.	Raadioeeskirjade lisa (Appendix)
Art.	Raadioeeskirjade artikkel (Article)
AVI	Raudteeveeremi automaatne identifitseerimissüsteem (Automatic
	Vehicle Identification for Railways)
BSS	Ringhääling (satelliit) (Broadcasting-satellite service)
BWA	Lairiba juurdepääsu raadiovõrk (Broadband Wireless Access)
CEPT	Euroopa Postside- ja Telekommunikatsiooni Administratsioonide
	Konverents (European Conference of Postal and
	Telecommunications Administrations)
CEPT PR27	Ühiskasutusega sagedusalas 27 MHz töötav raadiosidesüsteem
	(Citizen's band radio equipment in the 27 MHz band)
CEPT/ECC/REC	CEPT Elektroonilise Side Komitee soovitus
CEPT/ERC/REC	
CEPT/ERC/ T/R	
CEPT/ECC/DEC	CEPT Elektroonilise Side Komitee otsus
CEPT/ERC/DEC	
DEC	Otsus (Decision)
DECT	Raadiotelefonisüsteem (Digital Enhanced Cordless
DCDC	Telecommunications)
DGPS	Diferentsiaalne sidesüsteem asukoha määramiseks (Differential
DME	Global Positioning System Vahemaa mõõtmise süsteem (Distance measuring equipment)
DMC	Otseühenduskanal (Direct Mode Operation)
	1 /
DPMR 446	Ühiskasutusega sagedusalas 446 MHz töötav digitaalne raadiosidesüsteem (<i>Digital Professional Mobile Radio 446</i>)
Du	Dupleks raadiosageduskanal
	l .

DVB-T	Maapealne digitaaltelevisioon (Terrestrial Digital Video Broadcasting)
e.i.r.p.	Ekvivalentne isotroopne kiirgusvõimsus (<i>Equivalent isotropically radiated power</i>)
EN	Euroopa standard
EPIRB	Avariipoid (Emergency Position-Indicating Radiobeacon)
ERMES	Üldkasutatav isikuotsingu süsteem (European Radio Message System)
ES	Kosmoseside maajaama saatesagedus (Earth-to- space)
ESV	Veesõiduki pardale paigaldatav kosmoseside maajaam (Earth Station on board Vessels)
ETSI	Euroopa Telekommunikatsiooni Standardite Instituut (European Telecommunications Standards Institute)
EUROCAE	Euroopa Tsiviillennunduse Seadmete Organisatsioon (European Organization for Civil Aviation Equipment)
FDD	Sagedustihendus dupleks (Frequency Division Duplex)
FM	Sagedusmodulatsioon (Frequency modulation)
FSS	Paikne kosmoseside (Fixed-satellite service)
FWS	Paikne traadita süsteem (Fixed Wireless System)
GBSAR	Ehitise ja pinnase struktuuri sondeerimisseade (Ground Based Synthetic Aperture Radar)
GMDSS	Ülemaailmne merehäda ja ohutuse süsteem (Global Maritime Distress and Safety System)
GPS	Kosmosesidesüsteem asukoha määramiseks (Global Positioning System)
GPR	Pinnase sondeerimisradar (Ground Probing Radar)
GSM	Mobiiltelefonisüsteem (Global System for Mobile Communication)
E-GSM	GSM-laiendus
GSM-R	Raudtee mobiiltelefonisüsteem (GSM-Railway)
GSO	Geostatsionaarne orbiit (Geostationary orbit)
HDFS	Suuremahuline paikse side rakendus (High-Density Fixed Service)
HDFSS	Kosmoseside juurdepääsu rakendus (<i>High-density fixed satellite service</i>)
HDTV	Kõrgkvaliteediline televisioon (High Definition Television)
HF	Kõrgsagedus 3–30 MHz (High Frequency)
Hz	Hertz, sageduse mõõtühik (1 kHz = 1000 Hz; 1 MHz = 1 000 000 Hz; 1 GHz = 1 000 000 000 Hz)
ICAO	Rahvusvahelise Tsiviillennunduse Organisatsioon (International Civil Aviation Organization)
ILS	Pimemaandumissüsteem (Instrument Landing System)
IMT	Rahvusvaheline mobiilside (International Mobile Telecommunications)
IMO	Rahvusvaheline Mereorganisatsioon (International Maritime Organization)
ITU	Rahvusvaheline Telekommunikatsiooni Liit (<i>International Telecommunication Union</i>)

ITU-R F.XXX	Rahvusvahelise Telekommunikatsiooni Liidu Raadioside sektori
	(International Telecommunication Union Radiocommunication Sector)
TELD C A LID C	soovitus
JTIDS/MIDS	Taktikalise ja mitmefunktsionaalse informatsiooni edastussüsteem (Joint Tactical Information Distribution System / Multifunctional
	Information Distribution System / Muttifunctional
MCA	Mobiilside teenused õhusõiduki pardal (Mobile Communications
Wich	on Board Aircraft)
MCV	Mobiilside teenused veesõiduki pardal (Mobile Communications on Board Aircraft) Mobile Communication Services on Board Vessels
MFCN	Maapealne elektroonilise sideteenuse osutamise süsteem (Mobile/Fixed Communications Networks)
MLS	MLS maandumissüsteem (Microwave Landing System)
MSI	Mere-ohutusinformatsioon (Maritime Safety Information)
MWS	Juhtmeta multimeediajaotussüsteem (Multimedia Wireless Systems)
NAVTEX	Mere-ohutussüsteem (Narrow-Band Direct-Printing telegraphy)
NBDP	Kitsaribaline tähttrükkimine (Narrow-Band Direct-Printing)
OR	Lennuside väljaspool lennutrasse (Off- Route)
PFD	Võimsusvootihedus (Power flux density)
PMR446	Ühiskasutusega sagedusalas 446 MHz töötav raadiosidesüsteem (<i>Professional Mobile Radio 446</i>)
PMR/PAMR	Ametkondlik liikuv raadiosidesüsteem/piiratud avaliku juurdepääsuga liikuv raadiosidesüsteem (Professional Mobile Radio/Public Access Mobile Radio)
R	Lennuside lennutrassidel (Route)
RAS	Telefonivõrk juurdepääsuks sidevõrgu lõpp-punktile (Radio Access System)
Rec.	Soovitus (Recommendation)
Res.	Resolutsioon (Resolution)
RTTT	Maanteesidesüsteem (Road Transport and Traffic Telematics)
Rx	Baasjaama vastuvõtusagedus
RR	Raadioeeskirjad (Radio Regulations)
SAP/SAB	Ringhäälingu abiteenused ja ringhäälingu abiteenused programmi tegemiseks (Service Ancillary to Programme making and broadcasting)
SART	Radarivastajasüsteem (Search and Rescue Transponders)
S-DAB	Kosmose digitaalraadioringhääling (Satellite Digital Audio Broadcasting)
SE	Kosmoseside maajaama vastuvõtusagedus (Space-to-Earth)
Si	Simpleks raadiosageduskanal
SIT	SIT terminal (Satellite Interactive Terminal)
SNG	Kosmosesidesüsteem uudiste ajutiseks edastamiseks (Satellite News Gathering)
SRD	Lähitoimeseadmed (Short Range Device)
SS	Satelliitidevaheline side (Satellite-to-satellite)
SSB	Ühe külgriba modulatsioon (Single Side Band)

S-PCS	Isikliku kasutusega kosmosesidesüsteem (Satellite Personal Communications Services)
SUT	SUT terminal (Satellite User Terminal)
T-DAB	Maapealne digitaalraadioringhääling (Terrestrial Digital Audio Broadcasting)
TDD	Aegtihendus dupleks (Time Division Duplex)
TLPR	Mahutite taseme sondeerimisseade (Tanks Level Probing Radar)
TRA-ECS	Maapealsed süsteemid elektroonilise side teenuste osutamiseks (Terrestrial radio applications capable of providing electronic communications services)
ISM (TTM)	Eriotstarbelised raadiosagedusseadmed – tööstuses, teaduses, meditsiinis (<i>Industrial, Scientific and Medical applications</i>), olmes või muus valdkonnas kasutamiseks ettenähtud seadmed, mille töö põhineb elektromagnetlainete kasutamisel muul eesmärgil, kui raadioside pidamine
TV	Televisioon
Tx	Baasjaama saatesagedus
UMTS	Kolmanda põlvkonna mobiiltelefonivõrk (<i>Universal Mobile Telecommunications System</i>)
VHF	Ülikõrgsagedus 30-300 MHz (Very High Frequency)
VOR	VHF-ringsuunaline raadiomajakas (VHF omnidirectional radio range)
VSAT	Väikesemõõtmelised kosmosesidesüsteemide rakendused (Very Small Aperture Terminal)
WAS/RLAN	Lairiba andmeedastussüsteem / raadio koht-võrk (Wireless Access Systems including Radio Local Area Networks)
WPR	Seina sondeerimisradar (Wall Probing Radar)
WRC (WARC)	Ülemaailmne raadioside konverents (World (Administrative) Radio Conference)

II. Määrused

ESS § 120 ² lg 2	Tehnilised nõuded sagedusloa alusel kasutatavatele raadioseadmetele
ESS § 20 lg 1	Raadiosageduste kasutamise tingimused ja tehnilised nõuded sagedusloast vabastatud raadioseadmetele
ESS § 24	Raadioamatöörile kvalifikatsiooni andmise ja raadiosageduste amatöörraadioside otstarbel kasutamise kord
ESS § 21 lg 1	Kaitsejõudude ainukasutuseks määratud raadiosageduste kasutamise kord ja tehnilised nõuded
ESS § 90 ¹ lg 3	Nõuded vaba juurdepääsuga ja tingimusjuurdepääsuga teleprogrammide edastamisele ning taasedastamisele
ESS § 9 lg 4	Avaliku konkursi läbiviimise kord

III. CEPT elektroonilise side komitee soovitused

CEPT/ECC/REC/(10)02	A framework for authorisation regime of Global Navigation Satellite System (GNSS) repeaters
CEPT/ECC/REC/(09)01	Use of the 57–64 GHz frequency band for point-to-point Fixed Wireless Systems

CEPT/ECC/REC/(08)04	The identification of frequency bands for the implementation of Broad Band Disaster Relief (BBDR) radio applications in the 5 GHz frequency range
CEPT/ECC/DEC//0004	1 , 6
CEPT/ECC/REC/(06)04	Use of the band 5725–5875 MHz for Broadband Fixed Wireless Access (BFWA)
CEPT/ECC/REC/(05)07	Radio frequency channel arrangements for Fixed Service systems
	operating in the bands 71–76 GHz and 81–86 GHz
CEPT/ECC/REC/(05)02	Use of the 64–66 GHz frequency band for Fixed Service
CEPT/ECC/REC/(02)02	Channel arrangements for digital fixed service systems (point-to-
	point and point-to-multipoint) operating in the frequency band 31–31.3 GHz
CEPT/ECC/REC/(01)04	Recommended guidelines for the accommodation and assignment
	of Multimedia Wireless Systems (MWS) in the frequency band 40.5–43.5 GHz
CEPT/ERC/REC/(00)04	Harmonised frequencies and free circulation and use for Meteor Scatter Applications
CEPT/ERC/REC 12-02	Harmonised radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 12.75 GHz to 13.25 GHz
CEPT/ERC/REC 12-03	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 17.7 GHz to 19.7 GHz
CEPT/ERC/REC 12-05	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 10.0 GHz to 10.68 GHz
CEPT/ERC/REC 12-11	Radio frequency channel arrangement for fixed service systems operating in the band
CEPT/ERC/REC 12-12	Radio frequency channel arrangement for fixed service systems operating in the band 55.78–57.0 GHz
CEPT/ERC/REC 14-01	Radio-frequency channel arrangements for high capacity analogue and digital radio-relay systems operating in the band 5925 MHz-6425 MHz
CEPT/ERC/REC 14-02	Radio–frequency channel arrangements for me-dium and high capacity analogue or high capacity digital radio–relay systems operating in the band 6425 MHz–7125 MHz
CEPT/ERC/REC 25–10	Frequency ranges for the use of temporary terrestrial audio and video SAP/SAB links (incl. ENG/OB)
CEPT/ERC/REC 70-03	Relating to the use of Short Range Devices (SRD)
CEPT/ERC T/R 12-01	Harmonized radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 37 GHz–39.5 GHz
CEPT/ERC T/R 13-01	Preferred channel arrangements for fixed services in the range 1–3 GHz
CEPT/ERC T/R 13-02	Preferred channel arrangements for fixed services in the range 22.0–29.5 GHz
CEPT/ERC T/R 25–08	Planning criteria and coordination of frequencies in the land mobile service in the range 29.7–921 MHz
CEPT/ERC/REC 74-01	Unwanted Emissions in the Spurious Domain

CEPT/ERC/REC/(01)02	Preferred channel arangement for fixed service systems operating in the frequency band 31.8–33.4 GHz
CEPT/ECC/REC(11)08	Framework for authorisation regime of indoor global navigation satellite system (GNSS) pseudolites in the band 1559-1610 MHz
CEPT/ERC/DEC/(99)06	ERC Decision of 10 March 1999 on the harmonised introduction of satellite personal communication systems operating in the bands below 1 GHz (S-PCS<1GHz)
CEPT/ERC/REC/13-03	The use of the band 14.0–14.5 GHz for Very Small Aperture Terminals (VSAT) and Satellite News Gathering (SNG)
CEPT/ECC/REC/(11)09	UWB Location Tracking Systems TYPE 2 (LT2)
CEPT/ECC/REC/(11)10	Location tracking application for emergency and disaster
CEPT/ECC/REC(14)01	Radio frequency channel arrangements for fixed service systems operating in the band 92–95 GHz.

IV. CEPT elektroonilise side komitee otsused

	IV. CEP1 elektroonlise side komitee otsused		
ECC/DEC/(11)02	ECC Decision of 11 March 2011on the industrial Level Probing		
	Radars (LPR) operating in frequency bands 6–8.5 GHz, 24.05–		
	26.5 GHz, 57–64 GHz and 75–85 GHz		
CEPT/ECC/DEC/(10)02	ECC/DEC/(10)02 ECC Decision of 12 November 2010 on		
	compatibility between the fixed satellite service in the 30–31 GHz		
	band and the Earth exploration satellite service (passive) in the		
	31.3–31.5 GHz band		
CEPT/ECC/DEC/(09)04	ECC Decision of 30 October 2009 on exemption from individual		
	licensing and the free circulation and use of transmit-only mobile		
	satellite terminals operating in the Mobile-Satellite Service		
	allocations in the 1613.8–1626.5 MHz band		
CEPT/ECC/DEC/(09)03	ECC Decision of 30 October 2009 on harmonised conditions for		
	Mobile/Fixed Communications Networks (MFCN) operating in the		
	band 790–862 MHz		
ECC/DEC/(09)02	ECC Decision of 26 June 2009 on the harmonisation of the bands		
	1610–1626.5 MHz and 2483.5–2500 MHz for use by systems in		
	the Mobile-Satellite Service		
CEPT/ECC/DEC/(09)01	ECC Decision of 13 March 2009 on the harmonised use of the 63–		
	64 GHz frequency band for Intelligent Transport Systems (ITS)		
CEPT/ECC/DEC/(08)05	ECC Decision of 27 June 2008 on the harmonisation of frequency		
	bands for theimplementation of digital Public Protection and		
	Disaster Relief (PPDR) radio applications in bands within the		
	380–470 MHz range		
CEPT/ECC/DEC/(07)05	ECC Decision of 21 December 2007 on exemption from		
	individual licensing of land mobile satellite terminals operating in		
	the Mobile-Satellite Service allocation in the frequency range 1–3		
	GHz		
CEPT/ECC/DEC/(07)04	ECC Decision of date/month 2007 on free circulation and use of		
	mobile satellite terminals operating in the Mobile-Satellite Service		
	allocation in the frequency range 1–3 GHz		
CEPT/ECC/DEC/(07)02	ECC Decision of 30 March 2007 on availability of frequency		
	bands between 3400–3800 MHz for the Harmonised		
	implementation of Broadband Wireless Access systems (BWA)		

CEPT/ECC/DEC/(07)01	ECC Decision of 30 March 2007 on Building Material Analysis (BMA) devices using UWB technology in bands below 8.0 GHz amended 26 June 2009
CEPT/ECC/DEC/(06)10	ECC Decision of 1 December 2006 on transitional arrangements for the Fixed Service and tactical radio relay systems in the bands 1980–2010 MHz and 2170–2200 MHz in order to facilitate the harmonised introduction and development of systems in the Mobile Satellite Service including those supplemented by a Complementary Ground Component
CEPT/ECC/DEC/(06)09	ECC Decision of 1 December 2006 on designation of the bands 1980–2010 MHz and 2170–2200 MHz for use by systems in the Mobile-Satellite Service (MSS) including those supplemented by a Complementary Ground Component (CGC) amended 5 September 2007
CEPT/ECC/DEC/(06)08	ECC Decision of 1 December 2006 on the use of Ground- and Wall- Probing Radar (GPR/WPR) imaging systems
CEPT/ECC/DEC/(06)07	ECC Decision of 1 December 2006 on The harmonised use of airborne GSM systems in the frequency bands 1710–1785 and 1805–1880 MHz amended 13 June 2009
CEPT/ECC/DEC/(06)06	ECC Decision of 7 July 2006 on the availability of frequency bands for the introduction of Narrow Band Digital Land Mobile PMR/PAMR in the 80 MHz, 160 MHz and 400 MHz bands
CEPT/ECC/DEC/(06)05	ECC Decision of 7 July 2006 on the harmonised frequency bands to be designated for Air-Ground-Air operation (AGA) of Digital Land Mobile Systems for the Emergency Services
CEPT/ECC/DEC/(06)04	ECC Decision of 24 March 2006 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz amended 6 July 2007
CEPT/ECC/DEC/(06)03	ECC Decision of 24 March 2006 on Exemption from Individual Licensing of high e.i.r.p. satellite terminals (HEST) with e.i.r.p. above 34 dBW operating within the Frequency Bands 10.70–12.75 GHz or 19.70–20.20 GHz space-to-Earth and 14.00–14.25 GHz or 29.50–30.00 GHz Earth-to-space
CEPT/ECC/DEC/(06)02	ECC Decision of 24 March 2006 on Exemption from Individual Licensing of Low e.i.r.p. Satellite Terminals (LEST) operating within the Frequency Bands 10.70–12.75 GHz or 19.7–20.2 GHz space-to-Earth and 14.00–14.25 GHz or 29.50–30.00 GHz Earth-to-Space.
CEPT/ECC/DEC/(05)11	ECC Decision of 24 June 2005 on the free circulation and use of Aircraft Earth Stations (AES) in the frequency bands 14–14.5 GHz (Earth–to–space), 10.7–11.7GHz (space–to–Earth) and 12.5–12.75 GHz (Space–to–Earth)
CEPT/ECC/DEC/(05)10	ECC Decision of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in fixed satellite service networks in the frequency bands 14 –14.5 GHz (Earth–to–space), 10.7–11.7 GHz (space–to–Earth) and 12.5–12.75 GHz (space–to–Earth)
CEPT/ECC/DEC/(05)09	ECC Decision of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in Fixed Satellite

	service networks in the frequency bands 5 925–6 425 MHz
	(Earth-to-space) and 3 700-4 200 MHz (space-to-Earth)
CEPT/ECC/DEC/(05)08	ECC Decision of 24 June 2005 on the availability of frequency bands for High Density applications in the Fixed–Satellite Service (space–to–Earth and Earth–to–space)
CEPT/ECC/DEC/(05)02	ECC Decision of 18 March 2005 on the use of the frequency band 169.4–169.8125 MHz
CEPT/ECC/DEC/(05)01	ECC Decision of 18 March 2005 on the use of the band 27.5–29.5 GHz by fixed service and uncoordinated Earth stations of the fixed–satellite service (Earth–to–space)
CEPT/ECC/DEC/(04)10	ECC Decision of 12 November 2004 on the frequency bands to be designated for the temporary introduction of Automative Short Range Radars (SRR) amended 5 September 2007
CEPT/ECC/DEC/(04)09	ECC Decision of 12 November 2004 on designation of the bands 1518–1525 MHz and 1670–1675 MHz for the Mobile Satellite Service amended 25 June 2009
CEPT/ECC/DEC/(04)08	ECC Decision of 9 July 2004 on the harmonised use of the 5 GHz frequency bands for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) amended 3 November 2009
CEPT/ECC/DEC/(04)06	ECC Decision of 19 March 2004 on the availability of frequency bands for the introduction of Wide Band Digital Land Mobile PMR/PAMR in the 400 MHz and 800/900 MHz bands amended 26 June 09
CEPT/ECC/DEC/(04)03	ECC Decision of 19 March 2004 on the frequency band 77–81 GHz to be designated for the use of Automotive Short Range Radars
CEPT/ECC/DEC/(02)06	ECC Decision of 15 November 2002 on the designation of frequency band 2500–2690 MHz for UMTS/IMT–2000
CEPT/ECC/DEC/(02)05	ECC Decision of 5 July 2002 on the designation and availability of frequency bands for railway purposes in the 876–880 and 921–925 MHz bands amended 26 June 2009
CEPT/ECC/DEC/(02)04	ECC Decision of 15 March 2002 on the use of the band 40.5–42.5 GHz by terrestrial (fixed service / broadcasting service) systems and uncoordinated Earth stations in the fixed satellite service and broadcasting–satellite service (space to Earth)
CEPT/ERC/DEC/(01)19	ERC Decision of 12 March 2001 on harmonised frequency bands to be designated for the Direct Mode Operation (DMO) of the Digital Land Mobile Systems for the Emergency Services
CEPT/ERC/DEC/(01)12	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Model control operating in the frequencies 40.665, 40.675, 40.685 and 40.695 MHz
CEPT/ERC/DEC/(01)11	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Flying Model control operating in the frequency band 34.995–35.225 MHz

CEPT/ERC/DEC/(00)07	ERC Decision of 19 October 2000 on the shared use of the band 17.7–19.7 GHz by the fixed service and Earth stations of the fixed satellite services (space–to–Earth)
CEPT/ERC/DEC/(00)08	ERC Decision of 19 October 2000 on the use of the band 10.7–12.5 GHz by the fixed service and Earth stations of the broadcasting-satellite and fixed-satellite service
CEPT/ERC/DEC/(00)02	ERC Decision of 27 March 2000 on the use of the band 37.5–40.5 GHz by the fixed service and Earth stations of the fixed – satellite service (space to Earth)
CEPT/ERC/DEC/(99)15	ERC Decision of 1 June 1999 on the designation of the harmonised frequency band 40.5 to 43.5 GHz for the introduction of Multimedia Wireless Systems (MWS) including Multipoint Video Distribution Systems (MVDS) amended 5 March 2010
CEPT/ERC/DEC/(94)03	ERC Decision of 24 October 1994 on the frequency band to be designated for the coordinated introduction of the Digital European Cordless Telecommunications system
CEPT/ERC/DEC/(98)22	ERC Decision of 23 November 1998 on Exemption from Individual Licensing of DECT equipment, except fixed parts which provide for public access
CEPT/ERC/DEC/(98)15	ERC Decision of 23 November 1998 on Exemption from Individual Licensing of Omnitracs terminals for the Euteltracs system
CEPT/ECC/DEC/(13)01	ECC Decision of 8 March 2013 on the use, free circulation, and exemption from individual licensing of Earth stations on mobile platforms (ESOMPs) in the frequency bands available for use by uncoordinated FSS Earth stations within the ranges 17.3–20.2 GHz and 27.5–30.0 GHz.
CEPT/ECC/DEC/(11)03	ECC Decision of 24 June 2011 on the harmonised use of frequencies for Citizens' Band (CB) radio equipment
CEPT/ECC/DEC/(14)02	ECC Decision of 27 June 2014 on Harmonised technical and regulatory conditions for the use of the band 2300–2400 MHz for Mobile/Fixed Communications Networks (MFCN).
CEPT/ECC/DEC/(15)04	The harmonised use, free circulation and exemption from individual licensing of Land and Maritime Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems in the frequency ranges 17.3–20.2 GHz, 27.5–29.1 GHz and 29.5–30.0 GHz
CEPT/ECC/DEC/(15)05	ECC Decision of 3 July 2015 on the harmonised frequency range 446.0–446.2 MHz, technical characteristics, exemption from individual licensing and free carriage and use of analogue and digital PMR 446 applications
CEPT/ECC/DEC/(15)01	Harmonised technical conditions for mobile/fixed communications networks (MFCN) in the band 694–790 MHz including a paired frequency arrangement (Frequency Division Duplex 2x30 MHz) and an optional unpaired frequency arrangement (Supplemental Downlink

V. Nõukogu direktiivid

91/287/EMÜ	Nõukogu direktiiv, 3. juuni 1991, sagedusriba kohta, mis eraldatakse Euroopa digitaalse juhtmeta telekommunikatsioonisüsteemi (DECT) kooskõlastatud kasutuselevõtmiseks ühenduses
90/385/EMÜ	Nõukogu direktiiv, 20. juuni 1990, aktiivseid siirdatavaid meditsiiniseadmeid käsitlevate liikmesriikide õigusnormide ühtlustamise kohta

VI. ITU soovitused

ITU-R F.385	Radio-frequency channel arrangements for radio-relay systems operating in the 7 GHz band
ITU-R F.386	Radio-frequency channel arrangements for medium and high capacity analogue or digital radio-relay systems operating in the 8 GHz band
ITU-R F.636	Radio-frequency channel arrangements for radio-relay systems operating in the 15 GHz band
ITU-R F.637	Radio-frequency channel arrangements for radio-relay systems operating in the 23 GHz band
ITU-R SM.329	Unwanted emissions in the spurious domain
ITU-R M.1177	Techniques for measurement of unwanted emissions of radar systems
ITU-R M.633	Transmission characteristics of a satellite emergency position-indicating radiobeacon (satellite EPIRB) system operating through a low polar-orbiting satellite system in the 406 MHz band
ITU-R M.690	Transmission characteristics of emergency position-indicating radio beacons (EPIRBs) operating on carrier frequencies of 121.5 MHz and 243 MHz
ITU-R M.1343	Essential technical requirements of mobile Earth stations for global non- geostationary mobile-satellite service systems in the band 1–3 GHz

VII. Rahvusvaheline Tsiviillennunduse Organisatsiooni (International Civil Aviation Organization, ICAO) dokumendid

11, 1 words of Switz words, 10110) words with		
ICAO dokumendid	ICAO dokumendid	
ICAO konventsiooni lisa 10, köide I	ICAO konventsiooni lisa 10, köide I	
ICAO konventsiooni lisa 10, köide IV	ICAO konventsiooni lisa 10, köide IV	

VIII. Euroopa Komisjoni otsused

2009/766/EÜ	Komisjoni otsus, 16. oktoober 2009, sagedusalade 900 MHz ja 1800 MHz ühtlustamise kohta ühenduses üleeuroopalisi elektroonilisi sideteenuseid pakkuda võimaldavate maapealsete süsteemide jaoks
2009/343/EÜ	Komisjoni otsus, 21 aprill 2009, millega muudetakse otsust 2007/131/EÜ ultralairibaseadmetel raadiospektri ühtlustatud kasutamise võimaldamise kohta ühenduses
2008/671/EÜ	Komisjoni otsus, 5. august 2008, raadiospektri sagedusala 5875–5905 MHz ühtlustatud kasutamise kohta intelligentsetes transpordisüsteemides ohutusega seotud rakenduste jaoks
2008/626/EÜ	Euroopa Parlamendi ja nõukogu otsus nr 626/2008/EÜ, 30. juuni 2008, liikuva kosmoseside teenuseid pakkuvate süsteemide valiku ja nendega seotud lubade andmise kohta
2008/477/EÜ	Komisjoni otsus, 13. juuni 2008, sagedusala 2500–2690 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik ühenduses pakkuda elektroonilisi sideteenuseid

2008/411/EÜ	Komisjoni otsus, 21. mai 2008, sagedusala 3400–3800 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik ühenduses pakkuda elektroonilisi sideteenuseid
2008/294/EÜ	Komisjoni otsus, 7. aprill 2008, õhusõiduki pardal osutatavate mobiilsideteenuste spektrikasutuse ühtlustatud tingimuste kohta ühenduses
2007/90/EÜ	Komisjoni otsus,12. veebruar 2007, millega muudetakse otsust 2005/513/EÜ raadiospektri ühtlustatud kasutamise kohta sagedusalas 5 GHz traadita juurdepääsusüsteemide, sealhulgas raadio-kohtvõrkude (WAS/RLAN) rakendamiseks
2007/131/EÜ	Komisjoni otsus, 21.veebruar 2007, Ultralairibaseadmetel raadiospektri ühtlustatud kasutamise võimaldamise kohta ühenduses
2007/98/EÜ	Komisjoni otsus, 14. veebruar 2007, raadiospektri 2 GHz sagedusalas ühtlustatud kasutamise kohta liikuva kosmoseside süsteemi rakendamiseks
2006/804/EÜ	Komisjoni otsus, 23. november 2006, detsimeeterlainealal (UHF) töötavate raadiosagedustuvastamise (RFID) seadmete raadiospektri ühtlustamise kohta (teatavaks tehtud numbri K(2006) 5599 all)
2006/771/EÜ	Komisjoni otsus, 9. november 2006, lähitoimeseadmete raadiospektri ühtlustamise kohta
2005/513/EÜ	Komisjoni otsus, 11. juuli 2005, raadiospektri ühtlustatud kasutamise kohta sagedusalas 5 GHz traadita juurdepääsusüsteemide, sealhulgas raadiokohtvõrkude (WAS/RLAN) rakendamiseks
2005/50/EÜ	Komisjoni otsus, 17. jaanuar 2005, 24 GHz raadiosagedusala ajutise kasutuse ühtlustamise kohta seoses sõidukite lähitoimeradarseadmete kasutusega ühenduses
2004/545/EÜ	Komisjoni otsus, 8. juuli 2004, raadiospektri kasutuse ühtlustamise kohta sagedusalal 79 GHz seoses lähiala liiklusradarite kasutusega ühenduses
2001/148/EÜ	Komisjoni otsus, 21. veebruar 2001, direktiivi 1999/5/EÜ artikli 3 lõike 3 punkti e kohaldamisest laviinimajakate suhtes
552/2004/EÜ	Euroopa Parlamendi ja Nõukogu Määrus (EÜ) nr 552/2004 Euroopa lennuliikluse juhtimisvõrgu koostalitlusvõime kohta (koostalitlusvõime määrus)
2010/166/EÜ	Komisjoni otsus, 19. märts 2010, laeva pardal osutatavate mobiilsideteenuste (MCV-teenuste) raadiospektrikasutuse ühtlustatud tingimuste kohta Euroopa Liidus
2011/829/EL	Komisjoni rakendusotsus, 8. detsember 2011, millega muudetakse otsust 2006/771/EÜ lähitoimeseadmete raadiospektri ühtlustamise kohta
2010/267/EL	Komisjoni otsus, 6. mai 2010, ühtlustatud tehniliste tingimuste kohta sagedusala 790–862 MHz kasutamiseks selliste maapealsete süsteemide puhul, millega on võimalik Euroopa Liidus pakkuda elektroonilisi sideteenuseid
2011/251/EL	Komisjoni rakendusotsus, 18. aprill 2011, millega muudetakse otsust 2009/766/EÜ sagedusalade 900 MHz ja 1800 MHz ühtlustamise kohta ühenduses üleeuroopalisi elektroonilisi sideteenuseid pakkuda võimaldavate maapealsete süsteemide jaoks
2005/631/EÜ	Komisjoni otsus, 29. august 2005, Euroopa Parlamendi ja nõukogu direktiivis 1999/5/EÜ osutatud oluliste nõuete kohta, mis tagavad Cospas-Sarsat asukohamajakate juurdepääsu hädaabiteenustele

2013/752/EL	Komisjoni 11. detsembri 2013. aasta rakendusotsuse 2013/752/EL (millega muudetakse otsust 2006/771/EÜ lähitoimeseadmete raadiospektri ühtlustamise kohta ja tunnistatakse kehtetuks otsus 2005/928/EÜ) parandus
2014/702/EL	Komisjoni rakendusotsus, 7. oktoober 2014, millega muudetakse otsust 2007/131/EÜ ultralairibaseadmetel raadiospektri ühtlustatud kasutamise võimaldamise kohta ühenduses
2011/485/EL	Komisjoni rakendusotsus 29. juuli 2011, millega muudetakse otsust 2005/50/EÜ 24 GHz raadiosagedusala ajutise kasutuse ühtlustamise kohta seoses sõidukite lähitoimeradarseadmete kasutusega ühenduses
2012/688/EL	Komisjoni rakendusotsus 5. november 2012, sagedusvahemike 1920–1980 MHz ja 2110–2170 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik pakkuda elektroonilisi sideteenuseid Euroopa Liidus
2014/726/EL	Komisjoni rakendusotsus, 2. mai 2014, otsuse 2008/411/EÜ (sagedusala 3400–3800 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik ühenduses pakkuda elektroonilise side teenuseid) muutmise kohta
2014/641/EL	Komisjoni rakendusotsus, 1. september 2014, milles käsitletakse liidus programmitootmise ja erisündmuste edastamise traadita audioseadmetes kasutatava raadiospektriga seotud ühtlustatud tehnilisi tingimusi
2014/276/EL	Komisjoni rakendusotsus, 2. mai 2014, otsuse 2008/411/EÜ (sagedusala 3400–3800 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik ühenduses pakkuda elektroonilise side teenuseid) muutmise kohta
(EL) 2015/750	Komisjoni rakendusotsus (EL) 2015/750, 8. mai 2015, sagedusala 1452–1492 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik pakkuda elektroonilisi sideteenuseid Euroopa Liidus
2013/654/EL	Komisjoni rakendusotsus 12. november 2013, millega muudetakse otsust 2008/294/EÜ, et lisada õhusõiduki pardal osutatavate mobiilsideteenuste (MCA teenused) täiendavad juurdepääsutehnoloogiad ja sagedusalad
2016/339/EL	Komisjoni rakendusotsus (EL) 8. märts 2016, 2010–2025 MHz sagedusala ühtlustamise kohta programmitootmiseks ja erisündmuste edastamiseks kasutatavate portatiivsete või mobiilsete traadita videolinkide ja juhtmeta kaamerate puhul
(EL) 2016/687	Komisjoni rakendusotsus (EL) 2016/687, 28. aprill 2016, sagedusala 694–790 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik osutada traadita elektroonilise lairibaside teenuseid, ja selle sagedusala riigisiseseks paindlikuks kasutamiseks Euroopa Liidus
(EL) 2017/899	Euroopa Parlamendi ja nõukogu otsus (EL) 2017/899, 17. mai 2017, 470–790 MHz sagedusala kasutamise kohta liidus.
1079/2012/EL	Komisjoni 16. novembri 2012 rakendusmäärus 1079/2012/EL, millega kehtestatakse ühtses Euroopa taevas kasutatavad kõneside kanalisammud.
(EL) 2018/661	Komisjoni 26. aprilli 2018 rakendusotsus (EL) 2018/661, millega muudetakse rakendusotsust (EL) 2015/750 (sagedusala 1452 – 1492 MHz ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik pakkuda elektroonilise side teenuseid Euroopa Liidus) seoses selle laiendamisega ühtlustatud sagedusaladele 1427 – 1452 MHz ja 1 492 – 1 517 MHz.
2018/637/EL	Komisjoni 20. aprilli 2018 rakendusotsus (EL) 2018/637, millega muudetakse otsust 2009/766/EÜ (sagedusalade 900 MHz ja 1 800 MHz ühtlustamise kohta ühenduses üleeuroopalisi elektroonilisi sideteenuseid

	pakkuda võimaldavate maapealsete süsteemide jaoks) osas, mis puudutab
	asjade interneti suhtes kohaldatavaid tehnilisi tingimusi.
2017/2077/EL	Komisjoni 10. novemberi 2017 rakendusotsus (EL) 2017/2077, millega
	muudetakse otsust 2005/50/EÜ 24 GHz raadiosagedusala ajutise kasutuse
	ühtlustamise kohta seoses sõidukite lähitoimeradarseadmete kasutusega
	ühenduses
2017/1483/EL	Komisjoni 8. augusti 2017 rakendusotsus (EL) 2017/1483, millega
	muudetakse otsust 2006/771/EÜ lähitoimeseadmete raadiospektri
	ühtlustamise kohta ja tunnistatakse kehtetuks otsus 2006/804/EÜ
2017/1438/EL	Komisjoni 4. augusti 2017 rakendusotsus (EL) 2017/1438, 4. august 2017,
	millega muudetakse otsust 2007/131/EÜ ultralairibaseadmetel raadiospektri
	ühtlustatud kasutamise võimaldamise kohta ühenduses
2017/191/EL	Komisjoni 1. veebruari 2017 rakendusotsus (EL) 2017/191, millega
	muudetakse otsust 2010/166/EL, et võtta Euroopa Liidus laeva pardal
	osutatavate mobiilsideteenuste (MCV-teenuste) puhul kasutusele uued
	tehnoloogiad ja sagedused

IX. Rahvusvahelised kokkulepped

Genf 1985	Plans for Maritime Radionavigation Services in the European Maritime Area
kokkulepe	and for MF Maritime Mobile and Aeronautical Radionavigation Services
Genf 2006	Regional Agreement relating to the planning of the digital terrestrial
kokkulepe	broadcasting service in Region 1 (parts of Region 1 situated to the west of
	meridian 170°E and to the north of parallel 40°S, except the territory of
	Mongolia) and in the Islamic Republic of Iran, in the frequency bands 174–
	230 MHz and 470–862 MHz

X. ITU raadioeeskirjade lisad ja resolutsioonid

RR App. 17	ITU "Radio Regulations" Appendix 17 "Frequencies and channeling arrangements in the high-frequency bands for the maritime mobile service",
	Geneva 1998 (Rev. WRC-15)
RR App. 18	ITU "Radio Regulations" Appendix 18 "Table of transmitting frequencies in the VHF maritime mobile band", Geneva 1998
RR App. 25	ITU "Radio Regulations" Appendix 25 "Provisions and associated frequency allotment Plan for coast radiotelephone stations operating in the exclusive maritime mobile bands between 4000–27 500 kHz", Geneva 1998
RR App. 26	ITU "Radio Regulations" Appendix 26 "Provisions and associated Frequency Allotment Plan for the aeronautical mobile (OR) service in the bands allocated exclusively to that service between 3025 kHz and 18 030 kHz", Geneva 1998
RR App. 27	ITU "Radio Regulations" Appendix 27 "Frequency allotment Plan for the aeronautical mobile (R) service and related information", Geneva 1998
RR App. 30	ITU "Radio Regulations" Appendix 30 "Provisions for all services and associated Plans for the broadcasting-satellite service in the frequency bands 11,7–12,2 GHz (in Region 3), 11,7–12,5 GHz (in Region 1) and 12,2–12,7 GHz (in Region 2)", Geneva 1998
RR Res.517 (Rev. WRC-15)	ITU "Radio Regulations" Resolution 517 "Transition from double-sideband to single-sideband or other spectrum – efficient modulation techniques in the high-frequency bands between 5900 kHz and 26100 kHz allocated to the broadcasting service", Geneva 1998

RR Res.217	ITU "Radio Regulations" Resolution 217 "Implementation of wind profiler radars"
RR Res.339 (Rev. WRC-07)	ITU "Radio Regulations" Resolution 339 "Coordination of NAVTEX services"
RR Res. 238	ITU "Radio Regulations" Resolution 238 "Studies on frequency-related matters for International Mobile Telecommunications identification including possible additional" (WRC-15)

XI. ETSI standardid

AI. E I SI Stanua	
EN 303 035-2	TETRA seadmete põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel Osa 2: Otseühenduskanal (DMO)
EN 302 623	Lairiba juurdepääsu raadiovõrk (BWA) raadiosagedusalas 3400 MHz kuni
	3800 MHz Liikuvad terminalid harmoneeritud EN R&TTE direktiivi artikli
	3.2 põhinõuete alusel
EN 302 609	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Lähitoimeseadmed (SRD) Raudteesidesüsteemi Euroloop raadioseadmed
EN 202 (00	Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 302 608	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Lähitoimeseadmed (SRD) Raudteesidesüsteemi Eurobalise raadioseadmed Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 302 574-3	Kosmoseside maajaamad ja süsteemid (SES)Sagedusalades 1 980 MHz
	kuni 2 010 MHz (suunal Maa-kosmos) ja 2 170 MHz kuni 2 200 MHz
	(suunal kosmos-Maa) töötavate kosmoseside maajaamade (MSS)
	harmoneeritud standard Osa 3: Kitsaribaliste süsteemide kasutajaseadmed
	(UE). Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 574-2	Kosmoseside maajaamad ja süsteemid (SES)Sagedusalades 1 980 MHz
EN 302 374-2	kuni 2 010 MHz (suunal Maa-kosmos) ja 2 170 MHz kuni 2 200 MHz
	(suunal kosmos-Maa) töötavate kosmoseside maajaamade (MSS)
	harmoneeritud standard Osa 2:Lairiba süsteemide kasutajaseadmed (UE).
	Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 567	Lairiba raadiojuurdepääsuvõrgud (BRAN).Raadiosagedusalas 60 GHz
21,002.00.	töötavad WAS/RLAN süsteemid.Harmoneeritud EN R&TTE direktiivi
	artikli 3.2 põhinõuete alusel
EN 302 561	Liikuv maaside; Sageduskanalis laiusega 25 kHz,50 kHz,100 kHz või 150
	kHz töötavad pidevat või vahelduvat mähisjoone modulatsiooni kasutavad
	raadioseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2
	alusel
EN 302 544-2	Sagedusalas 2500 MHz kuni 2690 MHz töötavad
	lairibaandmeedastussüsteemid Osa 2:Aegtihedus dupleks modulatsiooniga
	(TDD) kasutajaseadmed harmoneeritud EN R&TTE direktiivi artikli 3.2
	põhinõuete alusel
EN 302 536	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM).
	Lähitoimeseadmed (SRD). Raadiosagedusalas 315 kHz kuni 600 kHz
	töötavad seadmed. Osa 2: Harmoneeritud EN RjaTTE direktiivi artikli 3.2
EN 202 510	põhinõuete alusel
EN 302 510	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadiosagedusalas 30 MHz kuni 30,5 MHz töötavad väga väikese
	võimsusega aktiivsed meditsiinilised membraanimplantaadid ja nende lisatarvikud Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2
	põhinõuete alusel
	Politiouete aiusei

EN 302 502	Lairiba raadiojuurdepääsuvõrgud (BRAN) Raadiosagedusalas 5,8 GHz
	töötavad paiksed lairiba andmeedastussüsteemid harmoneeritud EN
EN 302 500-2	R&TTE direktiivi artikli 3.2 põhinõuete alusel Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
EN 302 500-2	Ultralairiba (UWB) tehnoloogiat kasutavad lähitoimeseadmed
	Raadiosagedusalas 6 GHz kuni 9 GHz töötavad asukohaotsingu seadmed
	Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete
	alusel
EN 302 498-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
LIV 302 470-2	Lähitoimeseadmed (SRD) Ultralairiba (UWB) tehnoloogiat kasutavate
	lähitoimeseadmete tehnilised näitajad. Sagedusvahemikus 2,2 GHz kuni 8,5
	GHz töötavate töövahendite objekti selektiivsuse ja näitajate rakendus Osa
	2 harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 435-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Lähitoimeseadmed (SRD) Ultralairiba (UWB) tehnoloogiat kasutavate
	lähitoimeseadmete tehnilised näitajad Raadiosagedusvahemikus 2,2 GHz
	kuni 8,5 GHz töötavad ehitusmaterjalide analüüsi ja klassifitseerimise
	rakendused Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2
	põhinõuete alusel
EN 302 372	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Lähitoimeseadmed Tuvastamis- ja liikumisandurid Raadiosagedusalades 5,
	8, 10, 25, 61 ja 77 GHz töötavad mahutite taseme sondeerimisradarid
	(TLPR) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 302 340	Kosmoseside maajaamad ja süsteemid (SES) Paiksele kosmosesidele (FSS)
	eraldatud raadiosagedusalades 11/12/14 GHz töötavate veesõidukitele
	paigaldatud kosmoseside maajaamade (ESV) põhinõuded, harmoneeritud
	EN R&TTE direktiivi artikli 3.2 alusel
EN 302 326-3	Paiksed raadiosidesüsteemid Mitmikside seadmed ja antennid Osa 3:
	Mitmikpunktside raadioantennide harmoneeritud EN R&TTE direktiivi
EN 302 326-2	artikli 3.2 põhinõuete alusel
EN 302 320-2	Paiksed raadiosüsteemid; Paikse raadiovõrgu seadmed ja antennid; Osa 2: Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 302 296	Maapealse digitaalse televisiooniringhäälingusüsteemi raadiosaateseadmed;
EN 302 270	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 302 288-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
211 302 200 2	Lähitoimeseadmed Maanteesidesüsteemi seadmed (RTTT) Sagedusalas 24
	GHz töötavad sõidukiradarid Osa 2: Harmoneeritud EN R&TTE direktiivi
	artikli 3.2 põhinõuete alusel
EN 302 264	Lähitoimeseadmed; Transpordi ja liiklusetelemaatikasüsteemi seadmed
	(TTT); Sagedusalas 77 GHz kuni 81 GHz töötav sõidukiradar;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 põhinõuete alusel
EN 302 248	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
	(ERM)Navigatsiooniradarid SOLAS konventsiooniga hõlmamata
	laevadelHarmoneeritud EN R&TTE direktiivi artikli 3.2 pöhinõuete alusel
EN 302 217-2	Paiksed raadiosüsteemid Raadioliinide seadmete ja antennide
	karakteristikud ja nõuded; Osa 2: Raadiosagedusalades 1,3 GHz kuni 86
	GHz töötavad digitaalsüsteemid; Harmoneeritud standard direktiivi
TINI 202 200	2014/53/EL artikli 3.2 alusel
EN 302 208	Raadiosagedusalas 865 MHz kuni 868 MHz võimsusega kuni 2 W ja
	raadiosagedusalas 915 MHz kuni 921 MHz võimsusega kuni 4 W töötavad

	raadiosageduslikud identifitseerimisseadmed; Harmoneeritud standard
	direktiivi 2014/53/EL artikli 3.2 põhinõuete alusel
EN 302 195	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadiosagedusalas 9 kHz kuni 315 kHz töötavad raadioseadmed väga
	väikese võimsusega aktiivsete meditsiiniliste implantaatide (ULP-AMI) ja
	nende lisatarvikute (ULP-AMI-P) jaoks Osa 2 Harmoneeritud EN R&TTE
EN 202 107	direktiivi artikli 3 lõike 2 põhinõuete alusel.
EN 302 186	Kosmoseside maajaamad ja süsteemid (SES) Sagedusalades 11/12/14 GHz
	töötavate liikuva kosmoseside õhusõidukite maajaamade (AES)
EN 202 066	põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 302 066	Lähitoimeseadmed (SRD); Pinnase ja seina sondeerimisradarite
	rakendused; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2
EN 302 065	põhinõuete alusel Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)Sideks
EN 302 005	ultralairiba tehnoloogiat kasutavad lähitoimeseadmed,Harmoneeritud EN
	R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 064	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
1211 302 004	(ERM)Raadiosagedusvahemikus 1,3 GHz kuni 50 GHz töötavad juhtmeta
	videolingid (WVL) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2
	alusel
EN 302 054-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadiometeoroloogia (Met Aid) Raadiosagedusvahemikus 400,15 MHz
	kuni 406 MHz kasutamiseks mõeldud raadiosondid võimsusega kuni 200
	mW Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete
	alusel
EN 302 017	Amplituudmodulatsiooniga (AM) raadioringhäälingusüsteemi
	raadiosaateseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 oluliste nõuete alusel
EN 301 908-7	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS),
	repiiterid ja kasutajaseadmed (UE) Osa 7: IMT-2000, CDMA TDD (UTRA
	TDD) ja E-UTRA TDD) baasjaamade harmoneeritud EN R&TTE direktiivi
EN 201 000 6	artikli 3 lõike 2 põhinõuete alusel
EN 301 908-6	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS),
	repiiterid ja kasutajaseadmed (UE) Osa 6: IMT-2000, CDMA TDD (UTRA
	TDD ja E-UTRA TDD) kasutajaseadmete põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 alusel
EN 301 908-3	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
E11 501 700-5	3.2 alusel; Osa 3: Otsese hajutamisega CDMA (UTRA FDD) baasjaamad
	(BS)
EN 301 908-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS),
	repiiterid ja kasutajaseadmed (UE) Osa 2: IMT-2000, otsese hajutamisega
	CDMA (UTRA FDD ja E-UTRA FDD) kasutajaseadmete harmoneeritud
	EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 301 908-15	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel; Osa 15: E-UTRA FDD repiiterid
EN 301 908-14	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel; Osa 14: E-UTRA baasjaamad (BS)

EN 301 908-13	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS),
	repiiterid ja kasutajaseadmed (UE) Osa 13: IMT-2000 E-UTRA
	kasutajaseadmete põhinõuded, harmoneeritud EN R&TTE direktiivi artikli
	3 lõike 2 alusel
EN 301 908-11	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel; Osa 11: Otsese hajutamisega CDMA (UTRA FDD) repiiterid
EN 301 908-1	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel; Osa 1: sissejuhatus ja üldised nõuded
EN 301 893	Lairiba raadiojuurdepääsuvõrgud (BRAN) Raadiosagedusalas 5 GHz
	töötavate suure edastuskiirusega RLAN seadmed Harmoneeritud EN
	R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 301 843-6	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Mereside
	raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
	(EMC) standard Osa 6: Eritingimused veesõiduki pardal olevatele
777 001 010 1	saatesagedusega üle 3 GHz kosmoseside maajaamadele
EN 301 843-1	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Mereside
	raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
EN 201 020	(EMC) standard Osa 1: Üldised tehnilised nõuded
EN 301 839	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
	(ERM)LähitoimeseadmedRaadiosagedusalas 402 MHz kuni 405 MHz
	töötavad väga väikese võimsusega aktiivsed meditsiinilised implantaadid
	(ULP-AMI) ja nende lisatarvikud (ULP-AMI-P) Osa 2: Harmoneeritud EN
EN 301 783-2	R&TTE direktiivi artikli 3.2 põhinõuete alusel Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Liikuv
EN 301 /83-2	maaside kaubandusest kättesaadavad amatöör-raadioseadmed Osa 2:
	Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 301 721	Kosmoseside maajaamad ja süsteemid (SES); Raadiosagedusel alla 1 GHz
E1(501 721	maalähedase orbiidi (LEO) satelliitsüsteemide madala
	andmeedastuskiirusega (LBRDC) liikuvate maajaamade (MES)
	põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 301 681	Kosmoseside maajaamad ja süsteemid (SES) Liikuva kosmoseside (MSS)
	raadiosagedusalades 1,5/1,6 GHz töötavate geostatsionaarse liikuva
	kosmosesidesüsteemi isikliku kasutusega satelliitsidevõrkude (S-PCN)
	liikuvate maajaamade (MES) kaasa arvatud käsijaamade harmoneeritud EN
	R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 301 511	Globaalne mobiiltelefonisüsteem (GSM) Raadiosagedusalades GSM 900 ja
	DCS 1 800 töötavate liikuvate raadiojaamade põhinõuded, harmoneeritud
	standard R&TTE direktiivi (1999/5/EÜ) artikli 3.2 alusel
EN 301 502	Mobiiltelefonisüsteem (GSM); Baasjaamade (BS) seadmed; Harmoneeritud
	standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 301 489-4	Raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
	(EMC) harmoneeritud standard direktiivi 2014/53/EL artikli 3.1b alusel;
	Osa 4: Eritingimused paiksetele raadiolinkidele ja lisaseadmetele
EN 301 489-20	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
	(EMC) standard Osa 20: Eritingimused liikuvas kosmosesides (MSS)
The section 15	kasutatavatele liikuvatele maajaamadele (MES)
EN 301 489-12	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
	(ERM).Raadioseadmete ja raadiosideteenistuste elektromagnetilise
	ühilduvuse (EMC) standard. Osa 12:Eritingimused paikse kosmoseside

	(ESC) 1' 11 4 CH-1' 20 CH-4""44-1. VCAT
	(FSS) raadiosagedusalas 4 GHz kuni 30 GHz töötavatele VSAT-
EN 201 450	terminalidele ja satelliitside interaktiivsetele maajaamadele
EN 301 459	Kosmoseside maajaamad ja süsteemid (SES) Saatesagedusega 29,5 kuni 30,0 GHz geostatsionaarorbiidi satelliitide satelliitside interaktiivsete
	terminalide (SIT) ja satelliitside kasutajaterminalide (SUT) põhinõuded,
	harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 301 447	Kosmoseside maajaamad ja süsteemid (SES) Paiksele kosmosesidele (FSS)
EN 301 447	eraldatud raadiosagedusalades 4/6 GHz töötavate veesõidukitele
	paigaldatud kosmoseside maajaamade (ESV) põhinõuded, harmoneeritud
	EN R&TTE direktiivi artikli 3.2 alusel
EN 301 444	Kosmoseside maajaamad ja süsteemid (SES) Raadiosagedusalades 1,5 GHz
	ja 1,6 GHz töötavate ning kõne- ja/või andmeedastust võimaldavate liikuva
	maaside maajaamade (LMES) põhinõuded, harmoneeritud EN R&TTE
	direktiivi artikli 3.2 alusel
EN 301 442	Kosmoseside maajaamad ja süsteemid (SES) Liikuva kosmoseside (MES)
	raadiosagedusalas 2 GHz töötavate isikliku kasutusega
	kosmosesidesüsteemi (S-PCN) liikuvate maajaamade (MES), kaasa arvatud
	käsijaamade harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2
	põhinõuete alusel
EN 301 441	Kosmoseside maajaamad ja süsteemid (SES) Liikuva kosmoseside (MSS)
	raadiosagedusalades 1,6/2,4 GHz töötavate isikliku kasutusega
	kosmosesidevõrkude (S PCN) liikuvate maajaamade (MES), kaasa arvatud
	käsijaamade harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2
EN 204 420	põhinõuete alusel
EN 301 430	Kosmoseside maajaamad ja süsteemid (SES) Raadiosagedusalades 11-
	12/13-14 GHz töötavate ja uudiste ajutiseks edastamiseks mõeldud
	kosmosesidesüsteemi liikuvate maajaamade (SNG TES) harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 alusel
EN 301 428	Kosmoseside maajaamad ja süsteemid (SES) Mikroantennjaamade (VSAT)
21(001 120	harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuded
	raadiosagedusalades 11/12/14 GHz signaali edastust või edastust ja
	vastuvõttu või ainult vastuvõttu võimaldavatele kosmoseside maajaamadele
EN 301 427	Kosmoseside maajaamad ja süsteemid (SES) Raadiosagedusalades
	11/12/14 GHz madala andmeedastuskiirusega töötavate liikuvate
	kosmoseside maajaamade (LMES) harmoneeritud EN R&TTE direktiivi
	artikli 3.2 põhinõuete alusel
EN 301 426	Kosmoseside maajaamad ja süsteemid (SES) Raadiosagedusalades 1,5/1,6
	GHz madala andmeedastuskiirusega töötavate liikuvate kosmoseside
	maajaamade (LMES) harmoneeritud EN R&TTE direktiivi artikli 3.2
EN 204 40 C	põhinõuete alusel
EN 301 406	Raadiotelefonisüsteem (DECT).Raadiotelefonisüsteemi (DECT)
	harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel.Üldised
EN 201 257 2	raadionõuded Elektromagnetilise ühilduvuse ja raadiospektri küsimused (EPM)
EN 301 357-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadiosagedusalas 25 MHz kuni 2000 MHz töötavad juhtmeta audioseadmed Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2
	põhinõuete alusel
EN 301 178-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
E11 JUL 1/0-2	Teisaldatavad ülikõrgsagedusalas (VHF) töötavad liikuva mereside
	raadiotelefoniseadmed (mitte GMDSS rakenduste jaoks) Osa 2:
	Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 alusel
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EN 301 166	Liikuv maaside; Antenni ühendusega kitsaribalisel kanalil töötavad
	analoog- ja/või digitaalside (kõne ja /või andmeedastus) raadioseadmed;
EN 204 004 0	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 301 091-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Lähitoimeseadmed (SRD) Maanteetranspordi ja liikluse telemaatika
	Raadiosagedusvahemikus 76 GHz kuni 77 GHz töötavad radarseadmed
EN 300 761	Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 300 /01	Lähitoimeseadmed (SRD) Raadiosagedusalas 2,45 GHz töötavad raudteeveeremi automaatsed identifitseerimissüsteemid (AVI);
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 põhinõuete alusel
EN 300 720-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
EN 300 720-2	Ultrakõrgsagedusel (UHF) töötavad pardasidesüsteemid ja seadmed Osa 2:
	Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 300 718	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
E11 300 710	Laviiniohvrite detekteerimisseadmed; Saate – vastuvõtu süsteemid;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 ja 3.3 alusel
EN 300 718	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Laviiniohvrite detekteerimisseadmed; Saate – vastuvõtu süsteemid;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 ja 3.3 alusel
EN 300 698-3	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Siseveekogudel kasutatavad VHF raadiosagedusalas töötavate liikuva
	mereside raadiotelefonide saatjad ja vastuvõtjad Osa 3: Harmoneeritud EN
	R&TTE direktiivi artikli 3 lõike 2 punkti e põhinõuete alusel
EN 300 676-2	VHF raadiosagedusala liikuva lennuside teenistuse maapealsed
	kaasaskantavad, liikuvad ja kohtkindlalt paigaldatavad
	amplituudmodulatsiooniga raadiosaatjad, vastuvõtjad ja transiiverid. Osa 2:
777 200 (71 2 2	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 300 674-2-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Maanteetranspordi ja liikluse telemaatika (RTTT) Tööstuse, teaduse ja
	meditsiinirakenduste (TTM) sagedusalas raadiosagedusel 5,8 GHz töötavad sihtotstarbelise lähitoimeside (DSRC) edastusseadmed (500 kbit/s / 250
	kbit/s) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel Osa 2-
	2: Nõuded pardaseadmetele (OBU)
EN 300 674-2-1	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
EN 300 074-2-1	Maanteetranspordi ja liikluse telemaatika (RTTT) Tööstuse, teaduse ja
	meditsiinirakenduste (TTM) sagedusalas raadiosagedusel 5,8 GHz töötavad
	sihtotstarbelise lähitoimeside (DSRC) edastusseadmed (500 kbit/s / 250
	kbit/s) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel Osa 2-
	1: Nõuded maantee infrastruktuuri seadmetele(RSU)
EN 300 609	Globaalne mobiiltelefonisüsteem (GSM) Osa 4: GSM repiiterite
	harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 300 471	Liikuv maaside; Standardile EN 300 113 vastavate seadmete
	ühiskasutusega kanalite kanalijagamise reeglid; Harmoneeritud standard
	direktiivi 2014/53/EL artikli 3.2 alusel
EN 300 440-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
	(ERM).Lähitoimeseadmed.Raadiosagedusalas 1 GHz kuni 40 GHz
	kasutatavad raadioseadmed.Osa 2. Harmoneeritud EN R&TTE direktiivi
EN 200 422 2	artikli 3 lõike 2 põhinõuete alusel
EN 300 433-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Liikuv
	maaside Üldkasutatava raadiosagedusala kahe külgribaga (DSB) ja /või ühe

	külgribaga (SSB) amplituudmoduleeritud raadioseadmed Osa 2:
	Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 300 422-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadiosagedusalas 25 MHz kuni 3 GHz töötavad raadiomikrofonid Osa 2:
	Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 300 390	Liikuv maaside; Liitantenniga raadioseadmed andme- ja kõneedastatuseks ;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 300 373	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)MF ja HF
	raadiosagedusalas kasutatavad liikuva mereside raadiosaatjad ja -
	vastuvõtjad
EN 300 341	Liikuv maaside; Liitantenni kasutavad raadioseadmed, mis signaale
	edastades kutsuvad vastuvõtjas esile kindlatüübilise reaktsiooni;
TIN 200 220	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 300 330	Lähitoimeseadmed (SRD); Raadiosagedusalas 9 kHz kuni 25 MHz
	töötavad raadioseadmed ja sagedusalas 9 kHz kuni 30 MHz töötavad
	induktiivseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli
EN 300 328	3.2 põhinõuete alusel Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Lairiba
EN 300 328	edastussüsteemid 2,4 GHz TTM raadiosagedusalas töötavad
	andmeedastusseadmed, mis kasutavad lairibamodulatsiooni tehnoloogiat
	Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 300 296	Liikuv maaside; Peamiselt analoogkõneks ette nähtud liitantenniga
	raadioseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2
	alusel
EN 300 224	Liikuv maaside; Sagedusalas 25 MHz – 470 MHz kasutatavad
	asukohaotsingu teenuse raadioseadmed; Harmoneeritud standard direktiivi
	2014/53/EL artikli 3.2 alusel
EN 300 220	Lähitoimeseadmed (SRD); Raadiosagedusvahemikus 25 MHz kuni 1 000
	MHz kasutamiseks mõeldud võimsustasemetega kuni 500 mW
	raadioseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2
EN 200 210	põhinõuete alusel
EN 300 219	Liikuv maaside; Raadioseadmed, mis signaale edastades kutsuvad vastuvõtjas esile kindlatüübilise reaktsiooni; Harmoneeritud standard
	direktiivi 2014/53/EL artikli 3.2 alusel
EN 300 152-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
21(0001022	Raadiosagedusel 121,5 MHz või raadiosagedustel 121,5 MHz ja 243 MHz
	sihitamise eesmärgil töötavad avariipoid (EPIRB) Osa 2: Harmoneeritud
	EN R&TTE direktiivi artikli 3.3e alusel
EN 300 135-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Liikuv
	maaside Üldkasutatava raadiosagedusala (CB) raadioseadmed
	Faasinurgamodulatsiooniga üldkasutatava raadiosagedusala raadioseadmed
	(PR 27 raadioseadmed) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli
TAY 0.0. 4.5.	3 lõike 2 põhinõuete alusel
EN 300 113	Liikuv maaside; Antenniühendusega pidevat või vahelduvat mähisjoone
	modulatsiooni kasutavad raadioseadmed andme- ja/või kõneedastuseks.
EN 300 086	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
1214 200 000	Liikuv maaside Eeskätt analoogkõne jaoks mõeldud kõrgsagedusliku sisevõi välisühendusega raadioseadmed Harmoneeritud standard direktiivi
	2014/53/EL artikli 3.2 alusel
EN 301 489-1	Raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
	(EMC) standard; Osa 1: Üldised tehnilised nõuded; Harmoneeritud

	standard direktiivi 2014/53/EL artikli 3.1b ja direktiivi 2014/30/EL artikli 6
EN 202 025 1	alusel
EN 303 035-1	TETRA seadmete põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel; Osa 1: Kõne-pluss andmeside (V+D)
EN 302 480	Electromagnetic compatibility and Radio spectrum Matters
	(ERM); Harmonized EN for the GSM onboard aircraft system covering the
	essential requirements of Article 3.2 of the R&TTE Directive
EN 302 571	Intelligentsed transpordisüsteemid (ITS); Sagedusvahemikus 5855 MHz
	kuni 5925 MHz töötavad raadioseadmed; Harmoneeritud EN R&TTE
	direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 686	Intelligent Transport Systems (ITS);Radiocommunications equipment
	operating in the 63 GHz to 64 GHz frequency band; Harmonized EN
	covering the essential requirements of article 3.2 of the R&TTE Directive
EN 301 908-18	IMT kärgsidevõrgud. Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2
	põhinõuete alusel. Osa 18. E-UTRA, UTRA and GSM/EDGE standarditele
	vastav (MSR) baasjaam
EN 301 908-20	Kolmanda põlvkonna mobiiltelefonivõrk.Harmoneeritud EN R&TTE
	direktiivi artikli 3 lõike 2 põhinõuete alusel. Osa 20: OFDMA TDD
WW. 202 615	WMAN (Mobile WiMAX) TDD baasjaamad
EN 302 645	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Lähitoimeseadmed (SRD);Ülemaailmse kosmoseside
	navigatsioonisüsteemi (GNSS) repiiterid; Harmoneeritud EN R&TTE
EN 303 084	direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 303 084	Satelliitnavigatsiooni tugisüsteem (GBAS) VHF maa-õhk andmeedastus (VDB); Maapealsete seadmete tehnilised karakteristikud ja
	mõõtmismeetodid; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel
EN 303 213-6-1	Lennuvälja maapealse liikluse juhtimise täiustatud süsteem (A-SMGCS);
	Osa 6: Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
	süsteemi juures kasutatava maapealse liikluse seireradarite (SMR) jaoks;
	Alaosa 1: X-riba impulss-seireseadmed saatjavõimsusega kuni 100 kW
EN 302 152-1	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadiosagedusel 121,5 MHz või raadiosagedustel 121,5 MHz ja 243 MHz
	sihitamise eesmärgil töötavad avariipoid (EPIRB); Osa 1
EN 303 978	Kosmoseside maajaamad ja süsteemid (SES). Saatesagedusega 27,5 GHz
	kuni 30 GHz geostatsionaarorbiidil mobiilsel platvormil töötavate
	maajaamade (ESOMP) harmoneeritud EN R&TTE direktiivi artikli 3.2
EN 205 550 2	põhinõuete alusel
EN 305 550-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Lähitoimeseadmed (SRD). Raadioagedusalas 40 GHz kuni 246 GHz töötavad raadioseadmed. Osa 2: Harmoneeritud EN R&TTE direktiivi
	artikli 3 lõike 2 alusel.
EN 301 908-22	Kolmanda põlvkonna mobiiltelefonivõrk. Harmoneeritud EN R&TTE
E11 JUI JUU-22	direktiivi artikli 3 lõike 2 põhinõuete alusel. Osa 22: OFDMA TDD
	WMAN (Mobile WiMAX) FDD baasjaamad
EN 302 729	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Lähitoimeseadmed (SRD); Raadioagedusalalades 6 GHz kuni 8,5 GHz,
	24,05 GHz kuni 26,5 GHz; 57 GHz kuni 64 GHz ja 75 GHz kuni 85 GHz
	töötavad taseme sondeerimisradarid (LPR); Osa 2:Harmoneeritud EN
	R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel

EN 302 537	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Lähitoimeseadmed (SRD). 402 MHz kuni 405 MHz ja 405 MHz kuni 406
	MHz töötavad väga väikese võimsusega meditsiini andmesidesüsteemid;
	Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel.
EN 301 559	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Lähitoimeseadmed (SRD); Raadiosagedusalas 2483,5–2500 MHz töötavad
	madala võimsusega aktiivsed meditsiinilised implantaadid (LP-AMI); Osa
	2; Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 018	Sagedusmoduleeritud (FM) raadioringhäälingusaatjad; Harmoneeritud
	standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel
EN 302 077	Digitaalse raadioringhäälinguteenuse (T-DAB) raadiosaateseadmed;
	Harmoneeritud standard juurdepääsuks raadiospektrile
EN 303 979	Kosmoseside maajaamad ja süsteemid (SES). Saatesagedustega 27,5 GHz
	kuni 29,1 GHz ja 29,5 GHz kuni 30 GHz mitte-geostatsionaarorbiidil
	mobiilsel platvormil töötavate maajaamade (ESOMP) harmoneeritud EN
	R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 301 908-19	IMT cellular networks; Harmonized EN covering the essential
	requirements of article 3.2 of the R&TTE Directive; Part 19: OFDMA
	TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)

XII. ETSI Rapotid

ETSI TR 102 837	Electromagnetic compatibility and Radio spectrum Matters (ERM); System Reference Document;Broadband Wireless Systems in the 2300 MHz to 2400
	MHz Range

XIII. COSPAS-SARSAT SPETSIFIKATSIOONID

C/S T.001	C/S T.001
C/S T.007	C/S T.007
C/S T.012	C/S T.012

XIV. CEPT ECC raportid

ECC Raport 025	Strategies for the European use of frequency spectrum for PMR/PAMR
	applications

XV. ITU raadioeeskirjade artikli 5 alamärkused

5.53	Administrations authorizing the use of frequencies below 8.3 kHz shall ensure that
	no harmful interference is caused to the services to which the bands above 8.3 kHz
	are allocated. (WRC-12)
5.54	Administrations conducting scientific research using frequencies below 8.3 kHz
	are urged to advise other administrations that may be concerned in order that such
	research may be afforded all practicable protection from harmful interference.
5.54A	Use of the 8.3–11.3 kHz frequency band by stations in the meteorological aids
	service is limited to passive use only. In the band 9–11.3 kHz, meteorological aids
	stations shall not claim protection from stations of the radionavigation service
	submitted for notification to the Bureau prior to 1 January 2013. For sharing
	between stations of the meteorological aids service and stations in the
	radionavigation service submitted for notification after this date, the most recent
	version of Recommendation ITU-R RS.1881 should be applied. (WRC-12)
5.54B	Additional allocation: in Algeria, Saudi Arabia, Bahrain, Egypt, the United Arab
	Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Kuwait,

	Lebanon, Morocco, Qatar, the Syrian Arab Republic, Sudan and Tunisia, the frequency band 8.3–9 kHz is also allocated to the radionavigation, fixed and
	mobile services on a primary basis. (WRC 15)
5.55	Additional allocation: in Armenia, the Russian Federation, Georgia, Kyrgyzstan,
	Tajikistan and Turkmenistan, the band 14–17 kHz is also allocated to the
	radionavigation service on a primary basis. (WRC-15)
5.56	The stations of services to which the bands 14–19.95 kHz and 20.05–70 kHz and
	in Region 1 also the bands 72–84 kHz and 86–90 kHz are allocated may transmit
	standard frequency and time signals. Such stations shall be afforded protection
	from harmful interference. In Armenia, Azerbaijan, Belarus, the Russian
	Federation, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan and Turkmenistan, the
	frequencies 25 kHz and 50 kHz will be used for this purpose under the same
	conditions. (WRC 12)
5.57	The use of the bands 14–19.95 kHz, 20.05–70 kHz and 70–90 kHz (72–84 kHz
	and 86–90 kHz in Region 1) by the maritime mobile service is limited to coast
	radiotelegraph stations (A1A and F1B only). Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that
	normally used for class A1A or F1B emissions in the band concerned.
5.58	Additional allocation: in Armenia, Azerbaijan, the Russian Federation, Georgia,
3.30	Kazakhstan, Kyrgyzstan, Tajikistan and Turkmenistan, the band 67–70 kHz is also
	allocated to the radionavigation service on a primary basis. (WRC-2000)
5.60	In the bands 70–90 kHz (70–86 kHz in Region 1) and 110–130 kHz (112–130 kHz
	in Region 1), pulsed radionavigation systems may be used on condition that they
	do not cause harmful interference to other services to which these bands are
	allocated.
5.62	Administrations which operate stations in the radionavigation service in the band
	90–110 kHz are urged to coordinate technical and operating characteristics in such
	a way as to avoid harmful interference to the services provided by these stations.
5.64	Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized for
	stations of the fixed service in the bands allocated to this service between 90 kHz
	and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile
	service in the bands allocated to this service between 110 kHz and 160 kHz (148.5
	kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorized in
	the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of
5.67	the maritime mobile service. Additional allocations in Mangalia Kymayyatan and Tyukmanistan, the hand 120
3.07	Additional allocation: in Mongolia, Kyrgyzstan and Turkmenistan, the band 130-148.5 kHz is also allocated to the radionavigation service on a secondary basis.
	Within and between these countries this service shall have an equal right to
	operate. (WRC-07)
5.67A	Stations in the amateur service using frequencies in the band 135.7–137.8 kHz
0,0,11	shall not exceed a maximum radiated power of 1 W (e.i.r.p.) and shall not cause
	harmful interference to stations of the radionavigation service operating in
	countries listed in No. 5.67. (WRC-07)
5.73	The band 285–325 kHz (283.5–325 kHz in Region 1) in the maritime
	radionavigation service may be used to transmit supplementary navigational
	information using narrow-band techniques, on condition that no harmful
	interference is caused to radiobeacon stations operating in the radionavigation
	service. (WRC-97)
5.74	Additional Allocation: in Region 1, the frequency band 285.3–285.7 kHz is also
	allocated to the maritime radionavigation service (other than radiobeacons) on a
	primary basis.

5.75	Different category of service: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Moldova, Kyrgyzstan, Tajikistan, Turkmenistan, Ukraine and
	the Black Sea areas of Romania, the allocation of the band 315-325 kHz to the
	maritime radionavigation service is on a primary basis under the condition that in
	the Baltic Sea area, the assignment of frequencies in this band to new stations in
	the maritime or aeronautical radionavigation services shall be subject to prior
	consultation between the administrations concerned. (WRC-07)
5.76	The frequency 410 kHz is designated for radio direction-finding in the maritime
	radionavigation service. The other radionavigation services to which the band 405–
	415 kHz is allocated shall not cause harmful interference to radio direction-finding
	in the band 406.5–413.5 kHz.
5.77	Different category of service: in Australia, China, the French overseas
	communities of Region 3, Korea (Rep. of), India, Iran (Islamic Republic of),
	Japan, Pakistan, Papua New Guinea and Sri Lanka, the allocation of the frequency
	band 415–495 kHz to the aeronautical radionavigation service is on a primary
	basis. In Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan,
	Latvia, Uzbekistan and Kyrgyzstan, the allocation of the frequency band 435–495
	kHz to the aeronautical radionavigation service is on a primary basis.
	Administrations in all the aforementioned countries shall take all practical steps
	necessary to ensure that aeronautical radionavigation stations in the frequency band 435–495 kHz do not cause interference to reception by coast stations of
	transmissions from ship stations on frequencies designated for ship stations on a
	worldwide basis. (WRC-12)
5.79	The use of the bands 415–495 kHz and 505–526.5 kHz (505–510 kHz in Region 2)
3.19	by the maritime mobile service is limited to radiotelegraphy.
5.79A	When establishing coast stations in the NAVTEX service on the frequencies 490
3.17A	kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to
	coordinate the operating characteristics in accordance with the procedures of the
	International Maritime Organization (IMO) (see Resolution 339 (Rev.WRC-07).
	(WRC-07)
5.80	In Region 2, the use of the band 435–495 kHz by the aeronautical radionavigation
	service is limited to non-directional beacons not employing voice transmissioon.
5.80A	The maximum equivalent isotropically radiated power (e.i.r.p.) of stations in the
	amateur service using frequencies in the band 472–479 kHz shall not exceed 1 W.
	Administrations may increase this limit of e.i.r.p. to 5 W in portions of their
	territory which are at a distance of over 800 km from the borders of Algeria, Saudi
	Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United
	Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Jordan,
	Kazakhstan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Oman, Uzbekistan,
	Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia, Ukraine and
	Yemen. In this frequency band, stations in the amateur service shall not cause
	harmful interference to, or claim protection from, stations of the aeronautical
. 005	radionavigation service.
5.80B	The use of the frequency band 472–479 kHz in Algeria, Saudi Arabia, Azerbaijan,
	Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the
	Russian Federation, Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya,
	Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan,
	Somalia, Sudan, Tunisia and Yemen is limited to the maritime mobile and
	aeronautical radionavigation services. The amateur service shall not be used in the
	above-mentioned countries in this frequency band, and this should be taken into
	account by the countries authorizing such use.

5.82	In the maritime mobile service, the frequency 490 kHz is to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy.
	The conditions for use of the frequency 490 kHz are prescribed in Articles 31 and
	52. In using the band 415–495 kHz for the aeronautical radionavigation service,
	administrations are requested to ensure that no harmful interference is caused to
	the frequency 490 kHz. (WRC-12)
5.84	The conditions for the use of the frequency 518 kHz by the maritime mobile
	service are prescribed in Articles 31 and 52. (WRC-07)
5.90	In the band 1605–1705 kHz, in cases where a broadcasting station of Region 2 is
	concerned, the service area of the maritime mobile stations in Region 1 shall be
	limited to that provided by ground-wave propagation.
5.92	Some countries in Region 1 use radiodetermination systems in the bands 1606.5–
	1625 kHz, 1635–1800 kHz, 1850–2160 kHz, 2194–2300 kHz, 2502–2850 kHz and
	3500–3800 kHz, subject to agreement obtained under No 9.21. The radiated mean power of these stations shall not exceed 50 W.
5.93	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation,
3.75	Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Mongolia, Nigeria, Uzbekistan,
	Poland, Kyrgyzstan, Slovakia, Tajikistan, Chad, Turkmenistan and Ukraine, the
	frequency bands 1625–1635 kHz, 1800–1810 kHz and 2160–2170 kHz are also
	allocated to the fixed and land mobile services on a primary basis, subject to
	agreement obtained under No. 9.21. (WRC 15)
5.96	In Germany, Armenia, Austria, Azerbaijan, Belarus, Croatia, Denmark, Estonia,
	the Russian Federation, Finland, Georgia, Hungary, Ireland, Iceland, Israel,
	Kazakhstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway,
	Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the United Kingdom,
	Sweden, Switzerland, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the frequency bands 1715–1800
	kHz and 1850–2000 kHz. However, when allocating the frequency bands within
	this range to their amateur service, administrations shall, after prior consultation
	with administrations of neighbouring countries, take such steps as may be
	necessary to prevent harmful interference from their amateur service to the fixed
	and mobile services of other countries. The mean power of any amateur station
	shall not exceed 10 W. (WRC 15)
5.98	Alternative allocation: in Armenia, Azerbaijan, Belarus, Belgium, Cameroon,
	Congo (Rep. of the), Denmark, Egypt, Eritrea, Spain, Ethiopia, the Russian
	Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, the Syrian
	Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Tunisia, Turkmenistan and Turkey, the frequency band 1810–1830 kHz is allocated to the fixed and mobile,
	except aeronautical mobile, services on a primary basis. (WRC 15)
5.100	In Region 1, the authorization to use the band 1810–1830 kHz by the amateur
2.100	service in countries situated totally or partially north of 40° N shall be given only
	after consultation with the countries mentioned in Nos. 5.98 and 5.99 to define the
	necessary steps to be taken to prevent harmful interference between amateur
	stations and stations of other services operating in accordance with Nos. 5.98 and
	5.99.
5.103	In Region 1, in making assignments to stations in the fixed and mobile services in
	the bands 1850–2045 kHz, 2194–2498 kHz, 2502–2 625 kHz and 2650–2850 kHz,
	administrations should bear in mind the special requirements of the maritime
	mobile service.

5.104	In Region 1, the use of the band 2025–2045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
5.108	The carrier frequency 2 182 kHz is an international distress and calling frequency
	for radiotelephony. The conditions for the use of the band 2173.5–2 190.5 kHz are
	prescribed in Articles 31 and 52. (WRC-07)
5.109	The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz
3.107	and 16 804.5 kHz are international distress frequencies for digital selective calling.
7 110	The conditions for the use of these frequencies are prescribed in Article 31.
5.110	The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz
	and 16 695 kHz are international distress frequencies for narrow-band direct-
	printing telegraphy. The conditions for the use of these frequencies are prescribed
	in Article 31.
5.111	The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and the
	frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be
	used, in accordance with the procedures in force for terrestrial radiocommunication
	services, for search and rescue operations concerning manned space vehicles. The
	conditions for the use of the frequencies are prescribed in Article 31. The same
	applies to the frequencies 10 003 kHz, 14 993 kHz and 19 993 kHz, but in each of
	these cases emissions must be confined in a band of \pm 3 kHz about the frequency.
	(WRC 07)
5.113	For the conditions for the use of the bands 2300–2495 kHz (2498 kHz in Region
3.113	1), 3200–3400 kHz, 4750–4995 kHz and 5005–5060 kHz by the broadcasting
	service, see Nos. 5.16 to 5.20, 5.21 and 23.3 to 23.10.
E 115	
5.115	The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in
	accordance with Article 31 by stations of the maritime mobile service engaged in
	coordinated search and rescue operations. (WRC-07)
5.116	Administrations are urged to authorize the use of the band 3155–3195 kHz to
	provide a common worldwide channel for low power wireless hearing aids.
	Additional channels for these devices may be assigned by administrations in the
	bands between 3 155 kHz and 3 400 kHz to suit local needs. It should be noted that
	frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid
	devices which are designed to operate over short distances within the induction
	field.
5.127	The use of the band 4000–4063 kHz by the maritime mobile service is limited to
	ship stations using radiotelephony (see No. 52.220 and Appendix 17).
5.128	Frequencies in the bands 4063–4123 kHz and 4130–4438 kHz may be used
	exceptionally by stations in the fixed service, communicating only within the
	boundary of the country in which they are located, with a mean power not
	exceeding 50 W, on condition that harmful interference is not caused to the
	maritime mobile service. In addition, in Afghanistan, Argentina, Armenia,
	Azerbaijan, Belarus, Botswana, Burkina Faso, the Central African Rep., China, the
	Russian Federation, Georgia, India, Kazakhstan, Mali, Niger, Pakistan,
	Kyrgyzstan, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4063–4123
	kHz, 4130–4133 kHz and 4408–4438 kHz, stations in the fixed service, with a
	mean power not exceeding 1 kW, can be operated on condition that they are
	situated at least 600 km from the coast and that harmful interference is not caused
F 120	to the maritime mobile service. (WRC-12)
5.130	The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are
	prescribed in Articles 31 and 52. (WRC-07)

5.131	The frequency 4 209.5 kHz is used exclusively for the transmission by coast
	stations of meteorological and navigational warnings and urgent information to
	ships by means of narrow-band direct-printing techniques. (WRC-97)
5.132	The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz,
	19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the international frequencies for
	the transmission of maritime safety information (MSI) (see Appendix 17).
5.132A	Stations in the radiolocation service shall not cause harmful interference to, or
	claim protection from, stations operating in the fixed or mobile services.
	Applications of the radiolocation service are limited to oceanographic radars
	operating in accordance with Resolution 612 (Rev.WRC-12).
5.132B	Alternative allocation: in Armenia, Austria, Belarus, Moldova, Uzbekistan and
	Kyrgyzstan, the frequency band 4438–4488 kHz is allocated to the fixed and
	mobile, except aeronautical mobile (R), services on a primary basis.
5.133	Different category of service: in Armenia, Azerbaijan, Belarus, the Russian
01100	Federation, Georgia, Kazakhstan, Latvia, Lithuania, Niger, Uzbekistan,
	Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5
	130-5 250 kHz to the mobile, except aeronautical mobile, service is on a primary
	basis (see No. 5.33). (WRC-12)
5.134	The use of the bands 5900–5950 kHz, 7300–7350 kHz, 9400–9500 kHz, 11600–
	11650 kHz, 12050–12100 kHz, 13570–13600 kHz, 13800–13870 kHz, 15600–
	15800 kHz, 17480–17550 kHz and 18900–19020 kHz by the broadcasting service
	is subject to the application of the procedure of Article 12. Administrations are
	encouraged to use these bands to facilitate the introduction of digitally modulated
	emissions in accordance with the provisions of Resolution 517 (Rev.WRC-07).
	(WRC-07)
5.136	Additional allocation: Frequencies in the band 5900–5950 kHz may be used by
3.100	stations in the following services, communicating only within the boundary of the
	country in which they are located: fixed service (in all three Regions), land mobile
	service (in Region 1), mobile except aeronautical mobile (R) service (in Regions 2
	and 3), on condition that harmful interference is not caused to the broadcasting
	service. When using frequencies for these services, administrations are urged to
	use the minimum power required and to take account of the seasonal use of
	frequencies by the broadcasting service published in accordance with the Radio
	Regulations. (WRC-07)
5.137	On condition that harmful interference is not caused to the maritime mobile
	service, the bands 6200–6213.5 kHz and 6220.5–6525 kHz may be used
	exceptionally by stations in the fixed service, communicating only within the
	boundary of the country in which they are located, with a mean power not
	exceeding 50 W. At the time of notification of these frequencies, the attention of
	the Bureau will be drawn to the above conditions.
5.138	The following bands:
	6765–6795 kHz (centre frequency 6 780 kHz),
	433.05–434.79 MHz (centre frequency 433.92 MHz) in Region 1 except in the
	countries mentioned in No. 5.280,
	61–61.5 GHz (centre frequency 61.25 GHz),
	122–123 GHz (centre frequency 122.5 GHz), and
	244–246 GHz (centre frequency 245 GHz) are designated for industrial, scientific
	and medical (ISM) applications.
	The use of these frequency bands for ISM applications shall be subject to special
	authorisation by the administration concerned, in agreement with other
	administrations whose radiocommunication services might be affected. In applying
	administrations whose radiocommunication services inight be affected. In applying

this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.
Additional allocation: Frequencies in the band 7300–7350 kHz may be used by stations in the fixed service and in the land mobile service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
In Region 1, frequencies in the band 7350–7450 kHz may be used by stations in the fixed and land mobile services communicating only within the boundary of the country in which they are located on condition that harmful interference is not caused to the broadcasting service. The total radiated power of each station shall not exceed 24 dBW. (WRC-12)
The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles 31 and 52. (WRC-07)
Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed service. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution 612 (Rev.WRC-12).
Additional allocation: Frequencies in the bands 9400–9500 kHz, 11600–11650 kHz, 12050–12100 kHz, 15600–15800 kHz, 17480–17550 kHz and 18900–19020 kHz may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9775–9900 kHz, 11650–11700 kHz and 11975–12050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.
In making assignments to stations of other services to which the bands: 13360–13410 kHz, 25550–25670 kHz, 37.5–38.25 MHz, 73–74.6 MHz IN REGIONS 1 AND 3, 150.05–153 MHz IN REGION 1, 322–328.6 MHz, 406.1–410 MHz, 608–614 MHz IN REGIONS 1 AND 3, 1330–1400 MHz, 1610.6–1613.8 MHz, 1660–1670 MHz, 1718.8–1722.2 MHz, 2655–2690 MHz, 3260–3267 MHz, 3332–3339 MHz, 3345.8–3352.5 MHz, 4825–4835 MHz, 4950–4990 MHz, 4990–5000 MHz, 6650–6675.2 MHz, 10.6–10.68 GHz, 14.47–14.5 GHz, 22.01–22.21 GHz, 22.21–22.5 GHz, 22.81–22.86 GHz, 23.07–23.12 GHz, 31.2–31.3 GHz, 31.5–31.8 GHz IN REGIONS 1 AND 3, 36.43–36.5 GHz, 42.5–43.5 GHz, 42.77–42.87 GHz, 43.07–43.17 GHz, 43.37–43.47 GHz, 48.94–49.04 GHz, 76–86 GHz, 92–94 GHz, 94.1–100 GHz, 102–109.5 GHz, 111.8–114.25 GHz, 128.33–128.59 GHz, 129.23–129.49 GHz, 130–134 GHz, 136–148.5 GHz, 151.5–158.5 GHz, 168.59–168.93 GHz, 171.11–171.45 GHz, 172.31–172.65 GHz, 173.52–173.85 GHz, 195.75–196.15 GHz, 209–226 GHz, 241–250 GHz, 252–275 GHz are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly

	serious sources of interference to the radio astronomy service (see Nos. 4.5 and 4.6
	and Article 29). (WRC-07)
5.150	The following bands:
	13553–13567 kHz (centre frequency 13 560 kHz),
	26957–27283 kHz (centre frequency 27 120 kHz),
	40.66–40.70 MHz (centre frequency 40.68 MHz),
	902-928 MHz in Region 2 (centre frequency 915 MHz),
	2400–2500 MHz (centre frequency 2450 MHz),
	5725–5875 MHz (centre frequency 5800 MHz), and
	24–24.25 GHz (centre frequency 24.125 GHz) are also designated for industrial,
	scientific and medical (ISM) applications. Radiocommunication services operating
	within these bands must accept harmful interference which may be caused by these
	applications. ISM equipment operating in these bands is subject to the provisions
	of No. 15.13.
5.151	Additional allocation: Frequencies in the bands 13570–13600 kHz and 13800–
	13870 kHz may be used by stations in the fixed service and in the mobile except
	aeronautical mobile (R) service, communicating only within the boundary of the
	country in which they are located, on the condition that harmful interference is not
	caused to the broadcasting service. When using frequencies in these services,
	administrations are urged to use the minimum power required and to take account
	of the seasonal use of frequencies by the broadcasting service published in
	accordance with the Radio Regulations. (WRC-07)
5.152	Additional allocation: in Armenia, Azerbaijan, China, Côte d'Ivoire, Georgia, Iran
	(Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, the Russian
	Federation, Tajikistan, Turkmenistan and Ukraine, the band 14250–14350 kHz is
	also allocated to the fixed service on a primary basis. Stations of the fixed service
	shall not use a radiated power exceeding 24 dBW. (WRC-03)
5.154	Additional allocation: in Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan,
	the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 18068–
	18168 kHz is also allocated to the fixed service on a primary basis for use within
- 1	their boundaries, with a peak envelope power not exceeding 1 kW. (WRC-03)
5.155	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation,
	Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia,
	Tajikistan, Turkmenistan and Ukraine, the band 21850–21870 kHz is also
5 155 A	allocated to the aeronautical mobile (R) service on a primary basis. (WRC-07)
5.155A	In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan,
	Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan
	and Ukraine, the use of the band 21850–21870 kHz by the fixed service is limited
£ 155D	to provision of services related to aircraft flight safety. (WRC-07)
5.155B	The band 21870–21924 kHz is used by the fixed service for provision of services
E 15(A	related to aircraft flight safety.
5.156A	The use of the band 23200–23350 kHz by the fixed service is limited to provision
E 157	of services related to aircraft flight safety
5.157	The use of the band 23350–24000 kHz by the maritime mobile service is limited to
5 161D	inter-ship radiotelegraphy.
5.161B	Alternative allocation: in Albania, Germany, Armenia, Austria, Belarus, Belgium,
	Bosnia and Herzegovina, Cyprus, Vatican, Croatia, Denmark, Spain, Estonia,
	Finland, France, Greece, Hungary, Ireland, Iceland, Italy, Latvia, The Former
	Yugoslav Rep. of Macedonia, Liechtenstein, Lithuania, Luxembourg, Malta,
	Moldova, Monaco, Montenegro, Norway, Uzbekistan, Netherlands, Portugal,
	Kyrgyzstan, Slovakia, Czech Rep., Romania, United Kingdom, San Marino,

	Slovenia, Sweden, Switzerland, Turkey and Ukraine, the frequency band 42–42.5 MHz is allocated to the fixed and mobile services on a primary basis. (WRC 15)
5.162A	Additional allocation: in Germany, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Denmark, Spain, Estonia, the Russian Federation, Finland, France, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Luxembourg, Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, the Czech Rep., the United Kingdom, Serbia, Slovenia, Sweden and Switzerland the band 46–68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97). (WRC-12)
5.163	Additional allocation: in Armenia, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 47–48.5 MHz and 56.5–58 MHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-12)
5.164	Additional allocation: in Albania, Algeria, Germany, Austria, Belgium, Bosnia and Herzegovina, Botswana, Bulgaria, Côte d'Ivoire, Croatia, Denmark, Spain, Estonia, Finland, France, Gabon, Greece, Ireland, Israel, Italy, Jordan, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Montenegro, Nigeria, Norway, the Netherlands, Poland, Syrian Arab Republic, Slovakia, Czech Rep., Romania, the United Kingdom, Serbia, Slovenia, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia and Turkey, the frequency band 47–68 MHz, in South Africa the frequency band 47–50 MHz, and in Latvia the frequency band 48.5–56.5 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each frequency band referred to in this footnote shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations of countries other than those mentioned in connection with the frequency band. (WRC 15)
5.175	Alternative allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 68–73 MHz and 76–87.5 MHz are allocated to the broadcasting service on a primary basis. In Latvia and Lithuania, the bands 68–73 MHz and 76–87.5 MHz are allocated to the broadcasting and mobile, except aeronautical mobile, services on a primary basis. The services to which these bands are allocated in other countries and the broadcasting service in the countries listed above are subject to agreements with the neighbouring countries concerned. (WRC-07)
5.177	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 73–74 MHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-07)
5.179	Additional allocation: in Armenia, Azerbaijan, Belarus, China, the Russian Federation, Georgia, Kazakhstan, Lithuania, Mongolia, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 74.6–74.8 MHz and 75.2–75.4 MHz are also allocated to the aeronautical radionavigation service, on a primary basis, for ground-based transmitters only. (WRC-12)
5.180	The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guardband to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons. Every effort should be made to improve further the characteristics of airborne

	receivers and to limit the power of transmitting stations close to the limits 74.8
5.197A	MHz and 75.2 MHz. Additional allocation: the band 108–117.975 MHz is also allocated on a primary
3.19/A	basis to the aeronautical mobile (R) service, limited to systems operating in
	accordance with recognized international aeronautical standards. Such use shall be
	in accordance with Resolution 413 (Rev.WRC-07). The use of the band 108–112
	MHz by the aeronautical mobile (R) service shall be limited to systems composed
	of ground-based transmitters and associated receivers that provide navigational
	information in support of air navigation functions in accordance with recognized
	international aeronautical standards. (WRC-07)
5.200	In the band 117.975–137 MHz, the frequency 121.5 MHz is the aeronautical
	emergency frequency and, where required, the frequency 123.1 MHz is the
	aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime
	mobile service may communicate on these frequencies under the conditions laid
	down in Article 31 for distress and safety purposes with stations of the aeronautical mobile service. (WRC-07)
5.201	Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, the
3.201	Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq (Republic
	of), Japan, Kazakhstan, Moldova, Mongolia, Mozambique, Uzbekistan, Papua
	New Guinea, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and
	Ukraine, the frequency band 132–136 MHz is also allocated to the aeronautical
	mobile (OR) service on a primary basis. In assigning frequencies to stations of the
	aeronautical mobile (OR) service, the administration shall take account of the
	frequencies assigned to stations in the aeronautical mobile (R) service. (WRC 15)
5.202	Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Bulgaria,
	the United Arab Emirates, the Russian Federation, Georgia, Iran (Islamic Republic
	of), Jordan, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the frequency band 136–137
	MHz is also allocated to the aeronautical mobile (OR) service on a primary basis.
	In assigning frequencies to stations of the aeronautical mobile (OR) service, the
	administration shall take account of the frequencies assigned to stations in the
	aeronautical mobile (R) service. (WRC 15)
5.206	Different category of service: in Armenia, Azerbaijan, Belarus, Bulgaria, Egypt,
	Finland, France, Georgia, Greece, Kazakhstan, Lebanon, Moldova, Mongolia,
	Uzbekistan, Poland, Kyrgyzstan, the Syrian Arab Republic, Slovakia, the Czech
	Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine,
	the allocation of the band 137–138 MHz to the aeronautical mobile (OR) service is
5 200	on a primary basis (see No. 5.33). (WRC-2000) The use of the band 137-138 MHz by the mobile-satellite service is subject to
5.208	coordination under No. 9.11A. (WRC-97)
5.208A	In making assignments to space stations in the mobile-satellite service in the bands
	137–138 MHz, 387–390 MHz and 400.15–401 MHz, administrations shall take all
	practicable steps to protect the radio astronomy service in the bands 150.05–153
	MHz, 322–328.6 MHz, 406.1–410 MHz and 608–614 MHz from harmful
	interference from unwanted emissions. The threshold levels of interference
	detrimental to the radio astronomy service are shown in the relevant ITU-R
5.208B	Recommendation. (WRC-07) In the frequency bands: 127, 128 MHz, 287, 200 MHz, 400 15, 401 MHz, 1452
3.4U0B	In the frequency bands: 137–138 MHz, 387–390 MHz, 400.15–401 MHz, 1452–1492 MHz, 1525–1610 MHz, 1613.8–1626.5 MHz, 2655–2 690 MHz, 21.4–22
	GHz, Resolution 739 (Rev.WRC-15) applies.(WRC-15)
	one, resolution (3) (rest. title 13) approved (title=13)

5.209	The use of the bands 137–138 MHz, 148–150.05 MHz, 399.9–400.05 MHz, 400.15–401 MHz, 454–456 MHz and 459–460 MHz by the mobile-satellite
	service is limited to non-geostationary-satellite systems. (WRC-97)
5.211	Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain, Belgium,
	Denmark, the United Arab Emirates, Spain, Finland, Greece, Guinea, Ireland,
	Israel, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lebanon,
	Liechtenstein, Luxembourg, Mali, Malta, Montenegro, Norway, the Netherlands,
	Qatar, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sweden,
	Switzerland, Tanzania, Tunisia and Turkey, the frequency band 138–144 MHz is
	also allocated to the maritime mobile and land mobile services on a primary basis.
<i>5</i> 210	(WRC-15)
5.218	Additional allocation: the band 148–149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement
	obtained under No. 9.21. The bandwidth of any individual transmission shall not
	exceed ± 25 kHz.
5.219	The use of the band 148–149.9 MHz by the mobile-satellite service is subject to
	coordination under No. 9.11A. The mobile-satellite service shall not constrain the
	development and use of the fixed, mobile and space operation services in the band
	148–149.9 MHz.
5.220	The use of the frequency bands 149.9–150.05 MHz and 399.9–400.05 MHz by the
7.001	mobile-satellite service is subject to coordination under No. 9.11A. (WRC-15)
5.221	Stations of the mobile-satellite service in the frequency band 148–149.9 MHz shall
	not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations
	in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia,
	Austria, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and
	Herzegovina, Botswana, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus,
	Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark,
	Djibouti, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Ethiopia, the
	Russian Federation, Finland, France, Gabon, Georgia, Ghana, Greece, Guinea,
	Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel,
	Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, The Former Yugoslav
	Republic of Macedonia, Lesotho, Latvia, Lebanon, Libya, Liechtenstein,
	Lithuania, Luxembourg, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia,
	Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda,
	Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Kyrgyzstan, Dem.
	People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia,
	Sierra Leone, Singapore, Slovenia, Sudan, Sri Lanka, South Africa, Sweden,
	Switzerland, Swaziland, Tanzania, Chad, Togo, Tonga, Trinidad and Tobago,
	Tunisia, Turkey, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-15)
5.222	Emissions of the radionavigation-satellite service in the bands 149.9–150.05 MHz
	and 399.9–400.05 MHz may also be used by receiving earth stations of the space
	research service.
5.223	Recognising that the use of the band 149.9–150.05 MHz by the fixed and mobile
	services may cause harmful interference to the radionavigation-satellite service,
7.224	administrations are urged not to authorise such use in application of No. 4.4.
5.224A	The use of the bands 149.9–150.05 MHz and 399.9–400.05 MHz by the mobile-
	satellite service (Earth-to-space) is limited to the land mobile-satellite service
	(Earth-to-space) until 1 January 2015. (WRC-97)

5.224B	The allocation of the bands 149.9–150.05 MHz and 399.9–400.05 MHz to the
	radionavigation-satellite service shall be effective until 1 January 2015. (WRC-97)
5.225A	Additional allocation: in Algeria, Armenia, Azerbaijan, Belarus, China, the
	Russian Federation, France, Iran (Islamic Republic of), Kazakhstan, Uzbekistan,
	Kyrgyzstan, Tajikistan, Turkmenistan, Ukraine and Viet Nam, the frequency band
	154–156 MHz is also allocated to the radiolocation service on a primary basis. The
	usage of the frequency band 154–156 MHz by the radiolocation service shall be
	limited to space-object detection systems operating from terrestrial locations. The
	operation of stations in the radiolocation service in the frequency band 154–156
	MHz shall be subject to agreement obtained under No. 9.21. For the identification
	of potentially affected administrations in Region 1, the instantaneous field-strength
	value of 12 dB(μ V/m) for 10% of the time produced at 10 m above ground level in
	the 25 kHz reference frequency band at the border of the territory of any other
	administration shall be used. For the identification of potentially affected
	administrations in Region 3, the interference-to-noise ratio (I/N) value of -6 dB (N
	=-161 dBW/4 kHz), or $-10 dB$ for applications with greater protection
	requirements, such as public protection and disaster relief (PPDR ($N = -161$
	dBW/4 kHz)), for 1% of the time produced at 60 m above ground level at the
	border of the territory of any other administration shall be used. In the frequency
	bands 156.7625–156.8375 MHz, 156.5125–156.5375 MHz, 161.9625–161.9875
	MHz, 162.0125–162.0375 MHz, out-of-band e.i.r.p. of space surveillance radars
	shall not exceed –16 dBW. Frequency assignments to the radiolocation service
	under this allocation in Ukraine shall not be used without the agreement of
7.00 (Moldova.
5.226	The frequency 156.8 MHz is the international distress, safety and calling frequency
	for the maritime mobile VHF radiotelephone service. The conditions for the use of
	this frequency and the band 156.7625–156.8375 MHz are contained in Article 31
	and Appendix 18. The frequency 156.525 MHz is the international distress, safety
	and calling frequency for the maritime mobile VHF radiotelephone service using
	digital selective calling (DSC). The conditions for the use of this frequency and the band 156.4875–156.5625 MHz are contained in Articles 31 and 52, and in
	Appendix 18. In the bands 156–156.4875 MHz, 156.5625–156.7625 MHz,
	156.8375–157.45 MHz, 160.6–160.975 MHz and 161.475–162.05 MHz, each
	administration shall give priority to the maritime mobile service on only such
	frequencies as are assigned to stations of the maritime mobile service by the
	administration (see Articles 31 and 52, and Appendix 18). Any use of frequencies
	in these bands by stations of other services to which they are allocated should be
	avoided in areas where such use might cause harmful interference to the maritime
	mobile VHF radiocommunication service. However, the frequencies 156.8 MHz
	and 156.525 MHz and the frequency bands in which priority is given to the
	maritime mobile service may be used for radiocommunications on inland
	waterways subject to agreement between interested and affected administrations
	and taking into account current frequency usage and existing agreements. (WRC-
	07)
5.227	Additional allocation: the bands 156.4875–156.5125 MHz and 156.5375–156.5625
	MHz are also allocated to the fixed and land mobile services on a primary basis.
	The use of these bands by the fixed and land mobile services shall not cause
	harmful interference to nor claim protection from the maritime mobile VHF
	radiocommunication service. (WRC-07)
5.228	The use of the frequency bands 156.7625–156.7875 MHz and 156.8125–156.8375
	MHz by the mobile-satellite service (Earth-to-space) is limited to the reception of
	automatic identification system (AIS) emissions of long-range AIS broadcast

	messages (Message 27, see the most recent version of Recommendation ITU-R
	M.1371). With the exception of AIS emissions, emissions in these frequency bands
	by systems operating in the maritime mobile service for communications shall not
	exceed 1 W.
5.228A	The frequency bands 161.9625–161.9875 MHz and 162.0125–162.0375 MHz may
	be used by aircraft stations for the purpose of search and rescue operations and
	other safety-related communications.
5.228B	The use of the frequency bands 161.9625–161.9875 MHz and 162.0125–162.0375
	MHz by the fixed and land mobile services shall not cause harmful interference to,
	or claim protection from, the maritime mobile service.
5.228C	The use of the frequency bands 161.9625–161.9875 MHz and 162.0125–162.0375
	MHz by the maritime mobile service and the mobile-satellite (Earth-to-space)
	service is limited to the automatic identification system (AIS). The use of these
	frequency bands by the aeronautical mobile (OR) service is limited to AIS
	emissions from search and rescue aircraft operations. The AIS operations in these
	frequency bands shall not constrain the development and use of the fixed and
	mobile services operating in the adjacent frequency bands.
5.228D	The frequency bands 161.9625–161.9875 MHz (AIS 1) and 162.0125–162.0375
	MHz (AIS 2) may continue to be used by the fixed and mobile services on a
	primary basis until 1 January 2025, at which time this allocation shall no longer be
	valid. Administrations are encouraged to make all practicable efforts to discontinue
	the use of these bands by the fixed and mobile services prior to the transition date.
	During this transition period, the maritime mobile service in these frequency bands
	has priority over the fixed, land mobile and aeronautical mobile services.
5.228E	The use of the automatic identification system in the frequency bands 161.9625–
	161.9875 MHz and 162.0125–162.0375 MHz by the aeronautical mobile (OR)
	service is limited to aircraft stations for the purpose of search and rescue
	operations and other safety-related communications.
5.228F	The use of the frequency bands 161.9625–161.9875 MHz and 162.0125–162.0375
	MHz by the mobile-satellite service (Earth-to-space) is limited to the reception of
	automatic identification system emissions from stations operating in the maritime
	mobile service.
5.235	Additional allocation: in Germany, Austria, Belgium, Denmark, Spain, Finland,
	France, Israel, Italy, Liechtenstein, Malta, Monaco, Norway, the Netherlands, the
	United Kingdom, Sweden and Switzerland, the band 174–223 MHz is also
	allocated to the land mobile service on a primary basis. However, the stations of
	the land mobile service shall not cause harmful interference to, or claim protection
	from, broadcasting stations, existing or planned, in countries other than those listed
	in this footnote.
5.254	The bands 235–322 MHz and 335.4–399.9 MHz may be used by the mobile-
	satellite service, subject to agreement obtained under No. 9.21, on condition that
	stations in this service do not cause harmful interference to those of other services
	operating or planned to be operated in accordance with the Table of Frequency
	Allocations except for the additional allocation made in footnote No. 5.256A.
	(WRC-03)
5.255	The bands 312–315 MHz (Earth-to-space) and 387–390 MHz (space-to-Earth) in
	the mobile-satellite service may also be used by non-geostationary-satellite
	systems. Such use is subject to coordination under No. 9.11A.
5.256	The frequency 243 MHz is the frequency in this band for use by survival craft
	stations and equipment used for survival purposes. (WRC-07)

5.256A	Additional allocation: in China, the Russian Federation and Kazakhstan, the
	frequency band 258–261 MHz is also allocated to the space research service
	(Earth-to-space) and space operation service (Earth-to-space) on a primary basis.
	Stations in the space research service (Earth-to-space) and space operation service
	(Earth-to-space) shall not cause harmful interference to, or claim protection from,
	or constrain the use and development of, the mobile service systems and mobile-
	satellite service systems operating in the frequency band. Stations in space
	research service (Earth-to-space) and space operation service (Earth-to-space) shall
	not constrain the future development of fixed service systems of other countries.
	(WRC-15)
5.257	The band 267–272 MHz may be used by administrations for space telemetry in
	their countries on a primary basis, subject to agreement obtained under No. 9.21.
5.258	The use of the band 328.6–335.4 MHz by the aeronautical radionavigation service
	is limited to Instrument Landing Systems (glide path).
5.259	Additional allocation: in Egypt and the Syrian Arab Republic, the band 328.6–
	335.4 MHz is also allocated to the mobile service on a secondary basis, subject to
	agreement obtained under No. 9.21. In order to ensure that harmful interference is
	not caused to stations of the aeronautical radionavigation service, stations of the
	mobile service shall not be introduced in the band until it is no longer required for
	the aeronautical radionavigation service by any administration which may be
	identified in the application of the procedure invoked under No. 9.21. (WRC-12)
5.260	Recognising that the use of the band 399.9–400.05 MHz by the fixed and mobile
	services may cause harmful interference to the radionavigation satellite service,
	administrations are urged not to authorise such use in application of No. 4.4.
5.261	Emissions shall be confined in a band of ± 25 kHz about the standard frequency
0.201	400.1 MHz.
5.262	Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus,
	Botswana, Colombia, Cuba, Egypt, the United Arab Emirates, Ecuador, the
	Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Israel,
	Jordan, Kazakhstan, Kuwait, Liberia, Malaysia, Moldova, Oman, Uzbekistan,
	Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Kyrgyzstan, Singapore,
	Somalia, Tajikistan, Chad, Turkmenistan and Ukraine, the band 400.05–401 MHz
	is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
5.263	The band 400.15–401 MHz is also allocated to the space research service in the
	space-to-space direction for communications with manned space vehicles. In this
	application, the space research service will not be regarded as a safety service.
5.264	The use of the band 400.15–401 MHz by the mobile-satellite service is subject to
	coordination under No. 9.11A. The power flux-density limit indicated in Annex 1
	of Appendix 5 shall apply until such time as a competent world
	radiocommunication conference revises it.
5.266	The use of the band 406–406.1 MHz by the mobile-satellite service is limited to
	low power satellite emergency position-indicating radiobeacons (see also Article
	31). (WRC-07)
5.267	Any emission capable of causing harmful interference to the authorised uses of the
	band 406–406.1 MHz is prohibited.
5.268	Use of the frequency band 410–420 MHz by the space research service is limited
	to space-to-space communication links with an orbiting, manned space vehicle.
	The power flux-density at the surface of the Earth produced by emissions from
	transmitting stations of the space research service (space-to-space) in the
	frequency band 410–420 MHz shall not exceed –153 dB(W/m2) for 0° \square \square 5° ,
	$-153 + 0.077 (\square - 5) dB(W/m2)$ for $5^{\circ} \square \square \square 70^{\circ}$ and $-148 dB(W/m2)$ for $70^{\circ} \square$
<u> </u>	1 200 0.077 (= 0) 0.0 (1.711.12) 101 0 = = = 10 0.00 (1.711.12) 101 70 =

	\square \square 90°, where \square is the angle of arrival of the radio-frequency wave and the
	reference bandwidth is 4 kHz. In this frequency band, stations of the space
	research service (space-to-space) shall not claim protection from, nor constrain the
	use and development of, stations of the fixed and mobile services. No. 4.10 does
	not apply. (WRC 15)
5.271	Additional allocation: in Belarus, China, India, Kyrgyzstan and Turkmenistan, the
	band 420–460 MHz is also allocated to the aeronautical radionavigation service
	(radio altimeters) on a secondary basis. (WRC-07)
5.274	Alternative allocation: in Denmark, Norway, Sweden and Chad, the bands 430–
	432 MHz and 438–440 MHz are allocated to the fixed and mobile, except
	aeronautical mobile, services on a primary basis. (WRC-12)
5.275	Additional allocation: in Croatia, Estonia, Finland, Libya, The Former Yugoslav
	Republic of Macedonia, Montenegro and Serbia, the frequency bands 430–432
	MHz and 438–440 MHz are also allocated to the fixed and mobile, except
	aeronautical mobile, services on a primary basis. (WRC-15)
5.277	Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Cameroon, the
	Dem. Rep. of the Congo, Djibouti, the Russian Federation, Georgia, Hungary,
	Israel, Kazakhstan, Mali, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia,
	Romania, Rwanda, Tajikistan, Chad, Turkmenistan and Ukraine, the band 430–
	440 MHz is also allocated to the fixed service on a primary basis. (WRC-12)
5.279A	The use of this band by sensors in the Earth exploration-satellite service (active)
	shall be in accordance with Recommendation ITU-RRS.1260-1. Additionally, the
	Earth exploration-satellite service (active) in the band 432–438 MHz shall not
	cause harmful interference to the aeronautical radionavigation service in China.
	The provisions of this footnote in no way diminish the obligation of the Earth
	exploration-satellite service (active) to operate as a secondary service in
	accordance with Nos. 5.29 and 5.30. (WRC-03)
5.282	In the bands 435–438 MHz, 1260–1270 MHz, 2400–2450 MHz, 3400–3410 MHz
	(in Regions 2 and 3 only) and 5650–5670 MHz, the amateur-satellite service may
	operate subject to not causing harmful interference to other services operating in
	accordance with the Table (see No. 5.43). Administrations authorising such use
	shall ensure that any harmful interference caused by emissions from a station in the
	amateur-satellite service is immediately eliminated in accordance with the
	provisions of No. 25.11. The use of the bands 1260–1270 MHz and 5650–5670
	MHz by the amateur-satellite service is limited to the Earth-to-space direction.
5.286	The band 449.75–450.25 MHz may be used for the space operation service (Earth-
	to-space) and the space research service (Earth-to-space), subject to agreement
	obtained under No. 9.21.
5.286A	The use of the bands 454-456 MHz and 459–460 MHz by the mobile-satellite
	service is subject to coordination under 9.11A. (WRC-97)
5.286AA	The frequency band 450–470 MHz is identified for use by administrations wishing
	to implement International Mobile Telecommunications (IMT). See Resolution
	224 (Rev.WRC 15). This identification does not preclude the use of this frequency
	band by any application of the services to which it is allocated and does not
	establish priority in the Radio Regulations. (WRC 15)
5.287	Use of the frequency bands 457.5125–457.5875 MHz and 467.5125–467.5875
3 .2 0.	MHz by the maritime mobile service is limited to on-board communication
	stations. The characteristics of the equipment and the channelling arrangement
	shall be in accordance with Recommendation ITU R M.1174 3. The use of these
	frequency bands in territorial waters is subject to the national regulations of the
	administration concerned. (WRC 15)
	warming union concerned. (with 13)

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5.289	Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460–470 MHz and 1690–1710 MHz for space-to-Earth transmissions subject to not causing harmful interference
	to stations operating in accordance with the Table.
5.290	Different category of service: in Afghanistan, Azerbaijan, Belarus, China, the
	Russian Federation, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the
	band 460–470 MHz to the meteorological-satellite service (space-to Earth) is on a
	primary basis (see No. 5.33), subject to agreement obtained under No. 9.21.
	(WRC-12)
5.291A	Additional allocation: in Germany, Austria, Denmark, Estonia, Liechtenstein, the Czech Rep., Serbia and Switzerland, the frequency band 470–494 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC 97).
	(WRC-15)
5.296	Additional allocation: in Albania, Germany, Angola, Saudi Arabia, Austria,
	Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina
	Faso, Burundi, Cameroon, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia,
	Denmark, Djibouti, Egypt, United Arab Emirates, Spain, Estonia, Finland, France,
	Gabon, Georgia, Ghana, Hungary, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kenya, Kuwait, Lesotho, Latvia, The Former Yugoslav Republic of Macedonia,
	Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Malawi, Mali, Malta,
	Morocco, Mauritius, Mauritania, Moldova, Monaco, Mozambique, Namibia,
	Niger, Nigeria, Norway, Oman, Uganda, the Netherlands, Poland, Portugal, Qatar,
	the Syrian Arab Republic, Slovakia, the Czech Republic, the United Kingdom,
	Rwanda, San Marino, Serbia, Sudan, South Africa, Sweden, Switzerland,
	Swaziland, Tanzania, Chad, Togo, Tunisia, Turkey, Ukraine, Zambia and
	Zimbabwe, the frequency band 470–694 MHz is also allocated on a secondary
	basis to the land mobile service, intended for applications ancillary to broadcasting
	and programme making. Stations of the land mobile service in the countries listed
	in this footnote shall not cause harmful interference to existing or planned stations
	operating in accordance with the Table in countries other than those listed in this footnote. (WRC 15)
5.306	Additional allocation: in Region 1, except in the African Broadcasting Area (see
	Nos. 5.10 to 5.13), and in Region 3, the band 608–614 MHz is also allocated to the
<u> </u>	radio astronomy service on a secondary basis.
5.311A	For the frequency band 620–790 MHz, see also Resolution 549 (WRC-07).
5.312	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation,
	Georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and
	Ukraine, the frequency band 645–862 MHz, in Bulgaria the frequency bands 646–
	686 MHz, 726–758 MHz, 766–814 MHz and 822–862 MHz, and in Poland the
	frequency band 860 862 MHz until 31 December 2017, are also allocated to the
5.312A	aeronautical radionavigation service on a primary basis. (WRC 15) In Region 1, the use of the frequency band 694–790 MHz by the mobile, except
J.J14A	aeronautical mobile, service is subject to the provisions of Resolution 760 (WRC
	15). See also Resolution 224 (Rev.WRC 15). (WRC 15)
5.316	Additional allocation: in Germany, Saudi Arabia, Bosnia and Herzegovina,
10	Burkina Faso, Cameroon, Côte d'Ivoire, Croatia, Denmark, Egypt, Finland,
	Greece, Israel, the Libyan Arab Jamahiriya, Jordan, Kenya, The Former Yugoslav
	Republic of Macedonia, Liechtenstein, Mali, Monaco, Montenegro, Norway, the
	Netherlands, Portugal, the United Kingdom, the Syrian Arab Republic, Serbia,,
	Sweden and Switzerland, the band 790–830 MHz, and in these same countries and
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in Spain, France, Gabon and Malta, the band 830–862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis. However, stations of the mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, stations of services operating in accordance with the Table in countries other than those mentioned in connection with the band. This allocation is effective until 16 June 2015. (WRC-07) 5.316A Additional allocation: in Spain, France, Gabon and Malta, the band 790–830 MH in Albania, Angola, Bahrain, Benin, Botswana, the Dem. Rep. of the Congo, Egypt, United Arab Emirates, Estonia, Gambia, Ghana, Guinea, Guinea-Bissau, Hungary, Iraq, Kuwait, Lesotho, Latvia, Lebanon, Lithuania, Luxembourg, Malawi, Morocco, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Poland, Qatar, Slovakia, Czech Rep., Romania, Rwanda, Senegal, Sudar South Sudan, South Africa, Swaziland, Tanzania, Chad, Togo, Yemen, Zambia, Zimbabwe and French Overseas Departments and Communities in Region 1, the band 790-862 MHz and in Georgia, the band 806–862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis subject to the agreement by the administrations concerned obtained under No. 9.21 and under to GE06 Agreement, as appropriate, including those administrations mentioned in No. 5.312 where appropriate. See Resolutions 224 (Rev.WRC-12) and 749 (Rev.WRC-12). This allocation to the mobile, except aeronautical mobile, service in tfrequency band 790–862 MHz is subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. For countries party to the GE06 Agreement, the use of stations of the
in Albania, Angola, Bahrain, Benin, Botswana, the Dem. Rep. of the Congo, Egypt, United Arab Emirates, Estonia, Gambia, Ghana, Guinea, Guinea-Bissau, Hungary, Iraq, Kuwait, Lesotho, Latvia, Lebanon, Lithuania, Luxembourg, Malawi, Morocco, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Poland, Qatar, Slovakia, Czech Rep., Romania, Rwanda, Senegal, Sudar South Sudan, South Africa, Swaziland, Tanzania, Chad, Togo, Yemen, Zambia, Zimbabwe and French Overseas Departments and Communities in Region 1, the band 790-862 MHz and in Georgia, the band 806–862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis subject to the agreement by the administrations concerned obtained under No. 9.21 and under to GE06 Agreement, as appropriate, including those administrations mentioned in No. 5.312 where appropriate. See Resolutions 224 (Rev.WRC-12) and 749 (Rev.WRC-12). This allocation is effective until 16 June 2015. (WRC-12) In Region 1, the allocation to the mobile, except aeronautical mobile, service in the frequency band 790–862 MHz is subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. For countries party to the GE06 Agreement, the use of stations of the
frequency band 790–862 MHz is subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. For countries party to the GE06 Agreement, the use of stations of the
mobile service is also subject to the successful application of the procedures of the Agreement. Resolutions 224 (Rev.WRC 15) and 749 (Rev.WRC 15) shall apply, as appropriate. (WRC 15)
5.317A The parts of the frequency band 698–960 MHz in Region 2 and the frequency bands 694–790 MHz in Region 1 and 790–960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) – see Resolutions 224 (Rev.WRC 15), 760 (WRC 15) and 749 (Rev.WRC 15), where applicable. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-15)
5.319 Additional Allocation: In Belarus, the Russian Federation and Ukraine, the bands 806-840 MHz (Earth-to-space) and 856–890 MHz (space-to-Earth) are also allocated to the mobile-satellite, except aeronautical mobile satellite (R), service. The use of these bands by this service shall not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations and is subject to special agreements between the administrations concerned.
Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Hungary, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 862–960 MHz, in Bulgaria the bands 862–890.2 MHz and 900 935.2 MHz, in Poland the band 862–876 MHz until 31 December 2017, and in Romania the bands 862–880 MHz and 915–925 MHz, are also allocated to the aeronautical radionavigation service on a primary basis. Such use is subject to agreement obtained under No. 9.21 with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-12)

5.327A	The use of the frequency band 960–1164 MHz by the aeronautical mobile (R)
	service is limited to systems that operate in accordance with recognized
	international aeronautical standards. Such use shall be in accordance with
	Resolution 417 (Rev.WRC 15). (WRC 15)
5.328	The use of the band 960–1215 MHz by the aeronautical radionavigation service is
	reserved on a worldwide basis for the operation and development of airborne
	electronic aids to air navigation and any directly associated ground-based facilities.
	(WRC-2000)
5.328A	Stations in the radionavigation-satellite service in the band 1164–1215 MHz shall
	operate in accordance with the provisions of Resolution 609 (Rev.WRC-07) and
	shall not claim protection from stations in the aeronautical radionavigation service
	in the band 960–1215 MHz. No. 5.43A does not apply. The provisions of No.
	21.18 shall apply. (WRC-07)
5.328B	The use of the bands 1164–1300 MHz, 1559–1610 MHz and 5010–5030 MHz by
	systems and networks in the radionavigation-satellite service for which complete
	coordination or notification information, as appropriate, is received by the
	Radiocommunication Bureau after 1 January 2005 is subject to the application of
	the provisions of Nos. 9.12, 9.12A and 9.13. Resolution 610 (WRC-03) shall also
	apply; however, in the case of radionavigation-satellite service (space-to-space)
	networks and systems, Resolution 610 (WRC-03) shall only apply to transmitting
	space stations. In accordance with No. 5.329A, for systems and networks in the
	radionavigation-satellite service (space-to-space) in the bands 1215–1300 MHz
	and 1559–1610 MHz, the provisions of Nos. 9.7, 9.12, 9.12A and 9.13 shall only
	apply with respect to other systems and networks in the radionavigation-satellite
	service (space-to-space). (WRC-07)
5.329	Use of the radionavigation-satellite service in the band 1215–1300 MHz shall be
	subject to the condition that no harmful interference is caused to, and no protection
	is claimed from, the radionavigation service authorized under No. 5.331.
	Furthermore, the use of the radionavigation-satellite service in the band 1215–1300
	MHz shall be subject to the condition that no harmful interference is caused to the
	radiolocation service. No. 5.43 shall not apply in respect of the radiolocation
	service. Resolution 608 (WRC-03) shall apply. (WRC-03)
5.329A	Use of systems in the radionavigation-satellite service (space-to-space) operating
	in the bands 1215–1300 MHz and 1559–1610 MHz is not intended to provide
	safety service applications, and shall not impose any additional constraints on
	radionavigation-satellite service (space-to-Earth) systems or on other services
	operating in accordance with the Table of Frequency Allocations. (WRC-07)
5.331	Additional allocation: in Algeria, Germany, Saudi Arabia, Australia, Austria,
	Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso,
	Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Egypt, the United
	Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece,
	Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of),
	Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, The Former Yugoslav Republic of
	Macedonia, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg,
	Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, Pakistan, the
	Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's
	Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan,
	South Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo,
	Turkey, Venezuela and Viet Nam, the band 1215–1300 MHz is also allocated to
	the radionavigation service on a primary basis. In Canada and the United States,
	the band 1240–1300 MHz is also allocated to the radionavigation service, and use

	of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-12)
5.332	In the band 1215–1260 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service, the radionavigation-satellite service and other services allocated on a primary basis. (WRC-2000)
5.335A	In the band 1260–1300 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service and other services allocated by footnotes on a primary basis.(WRC-2000)
5.337	The use of the bands 1300–1350 MHz, 2700–2900 MHz and 9000–9200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
5.337A	The use of the band 1300–1350 MHz by earth stations in the radionavigation-satellite service and by stations in the radiolocation service shall not cause harmful interference to, nor constrain the operation and development of, the aeronautical-radionavigation service. (WRC-2000)
5.338A	In the frequency bands 1350–1400 MHz, 1427–1452 MHz, 22.55–23.55 GHz, 30–31.3 GHz, 49.7–50.2 GHz, 50.4–50.9 GHz, 51.4–52.6 GHz, 81–86 GHz and 92–94 GHz, Resolution 750 (Rev.WRC 15) applies. (WRC 15)
5.339	The bands 1370–1400 MHz, 2640–2655 MHz, 4950–4990 MHz and 15.20–15.35 GHz are also allocated to the space research (passive) and Earth exploration-satellite (passive) services on a secondary basis.
5.340	All emissions are prohibited in the following bands: 1400–1427 MHz, 2690–2700 MHz, except those provided for by No. 5.422, 10.68–10.7 GHz, except those provided for by No. 5.483, 15.35–15.4 GHz, except those provided for by No. 5.511, 23.6–24 GHz, 31.3–31.5 GHz, 31.5–31.8 GHz, in Region 2, 48.94–49.04 GHz, from airborne stations, 50.2–50.4 GHz, 52.6–54.25 GHz, 86–92 GHz, 100–102 GHz, 109.5–111.8 GHz, 114.25–116 GHz, 148.5–151.5 GHz, 164–167 GHz, 182–185 GHz, 190–191.8 GHz, 200–209 GHz, 226–231.5 GHz, 250–252 GHz. (WRC-03)
5.341	In the bands 1400–1727 MHz, 101–120 GHz and 197–220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin
5.342	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Uzbekistan, Kyrgyzstan and Ukraine, the frequency band 1429–1535 MHz is also allocated to the aeronautical mobile service on a primary basis, exclusively for the purposes of aeronautical telemetry within the national territory. As of 1 April 2007, the use of the frequency band 1452–1492 MHz is subject to agreement between the administrations concerned. (WRC 15)
5.345	Use of the band 1452–1492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (WARC-92).**Note by the Secretariat: This Resolution was revised by WRC-03
5.348	The use of the band 1518–1525 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. In the band 1518–1525 MHz stations in the mobile-satellite service shall not claim protection from the stations in the fixed service. No. 5.43A does not apply. (WRC-03)

5.351	The bands 1525–1544 MHz, 1545–1559 MHz, 1626.5–1645.5 MHz and 1646.5–1660.5 MHz shall not be used for feeder links of any service. In exceptional circumstances, however, an earth station at a specified fixed point in any of the mobile-satellite services may be authorised by an administration to communicate via space stations using these bands.
5.351A	For the use of the bands 1518–1544 MHz, 1545–1559 MHz, 1610–1626.5 MHz, 1626.5–1645.5 MHz, 1646.5–1660.5 MHz, 1668–1675 MHz, 1980–2010 MHz, 2170–2200 MHz, 2483.5–2500 MHz, 2500–2520 MHz and 2670–2690 MHz by the mobile-satellite service, see Resolutions 212 (Rev.WRC-07) and 225 (Rev.WRC-07). (WRC-07)
5.353A	In applying the procedures of Section II of Article 9 to the mobile-satellite service in the bands 1530–1544 MHz and 1626.5–1645.5 MHz, priority shall be given to accommodating the spectrum requirements for distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). Maritime mobile-satellite distress, urgency and safety communications shall have priority access and immediate availability over all other mobile satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, distress, urgency and safety communications of the GMDSS. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution 222 (WRC-2000)* shall apply.) (WRC 2000) *Note by the Secretariat: This Resolution was revised by WRC-07
5.354	The use of the bands 1525–1559 MHz and 1626.5–1660.5 MHz by the mobile-satellite services is subject to coordination under 9.11A.
5.356	The use of the band 1544–1545 MHz by the mobile-satellite service (space-to-Earth) is limited to distress and safety communications (see Article 31).
5.357	Transmissions in the band 1545–1555 MHz from terrestrial aeronautical stations directly to aircraft stations, or between aircraft stations, in the aeronautical mobile (R) service are also authorised when such transmissions are used to extend or supplement the satellite-to-aircraft links.
5.357A	In applying the procedures of Section II of Article 9 to the mobile-satellite service in the bands 1545–1555 MHz and 1646.5–1656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article 44. Aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article 44 shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article 44. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution 222 (Rev. WRC-12) shall apply.) (WRC 12)
5.359	Additional allocation: in Germany, Saudi Arabia, Armenia, Azerbaijan, Belarus, Benin, Cameroon, the Russian Federation, France, Georgia, Guinea, Guinea-Bissau, Jordan, Kazakhstan, Kuwait, Lithuania, Mauritania, Uganda, Uzbekistan, Pakistan, Poland, the Syrian Arab Republic, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, Tajikistan, Tunisia, Turkmenistan and Ukraine, the frequency bands 1550–1559 MHz, 1610–1645.5 MHz and 1646.5–1660 MHz are also allocated to the fixed service on a primary basis. Administrations are urged to make all practicable efforts to avoid the implementation of new fixed-service stations in these frequency bands. (WRC 15)

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5.362B	Additional allocation: The band 1559–1610 MHz is also allocated to the fixed
	service on a primary basis until 1 January 2010 in Algeria, Saudi Arabia,
	Cameroon, Jordan, Mali, Mauritania, Syrian Arab Republic and Tunisia. After this
	date, the fixed service may continue to operate on a secondary basis until 1 January
	2015, at which time this allocation shall no longer be valid. The band 1559–1610
	MHz is also allocated to the fixed service on a secondary basis in Algeria,
	Armenia, Azerbaijan, Belarus, Benin, Russian Federation, Gabon, Georgia,
	Guinea, Guinea-Bissau, Kazakhstan, Lithuania, Nigeria, Uzbekistan, Pakistan,
	Poland, Kyrgyzstan, Dem. People's Rep. of Korea, Romania, Senegal, Tajikistan,
	Tanzania, Turkmenistan and Ukraine until 1 January 2015, at which time this
	allocation shall no longer be valid. Administrations are urged to take all practicable
	steps to protect the radionavigation-satellite service and the aeronautical
	radionavigation service and not authorize new frequency assignments to fixed-
	service systems in this band. (WRC 12)
5.364	The use of the band 1610–1626.5 MHz by the mobile-satellite service (Earth-to-
	space) and by the radiodetermination satellite service (Earth-to-space) is subject to
	coordination under No. 9.11A. A mobile earth station operating in either of the
	services in this band shall not produce a peak e.i.r.p. density in excess of -15
	dB(W/4 kHz) in the part of the band used by systems operating in accordance with
	the provisions of No. 5.366 (to which No. 4.10 applies), unless otherwise agreed
	by the affected administrations. In the part of the band where such systems are not
	operating, the mean e.i.r.p. density of a mobile earth station shall not exceed –3
	dB(W/4 kHz). Stations of the mobile-satellite service shall not claim protection
	from stations in the aeronautical radionavigation service, stations operating in
	accordance with the provisions of No. 5.366 and stations in the fixed service
	operating in accordance with the provisions of No. 5.359. Administrations
	responsible for the coordination of mobile-satellite networks shall make all
	practicable efforts to ensure protection of stations operating in accordance with the provisions of No. 5.366.
5.365	The use of the band 1613.8–1626.5 MHz by the mobile-satellite service (space-to-
5.305	Earth) is subject to coordination under 9.11A.
5 266	
5.366	The band 1610–1626.5 MHz is reserved on a worldwide basis for the use and
	development of airborne electronic aids to air navigation and any directly
	associated ground-based or satellite-borne facilities. Such satellite use is subject to
£ 267	agreement obtained under No. 9.21. Additional allocation: the bands 1610–1626.5 MHz is also allocated to the
5.367	
	aeronautical mobile-satellite (R) service on a primary basis, subject to agreement
£ 260	obtained under No. 9.2
5.368	With respect to the radiodetermination-satellite and mobile-satellite services the
	provisions of No. 4.10 do not apply in the band 1610–1626.5 MHz, with the
E 251	exception of the aeronautical radionavigation-satellite service.
5.371	Additional allocation: in Region 1, the bands 1610–1626.5 MHz (Earth-to-space)
	is also allocated to the radiodetermination-satellite service on a secondary basis,
E 252	subject to agreement obtained under No. 9.21. (WRC-12)
5.372	Harmful interference shall not be caused to stations of the radio astronomy service
	using the band 1610.6–1613.8 MHz by stations of the radiodetermination-satellite
	and mobile-satellite services (No. 29.13 applies).
5.374	Mobile earth stations in the mobile-satellite service operating in the bands 1631.5–
	1634.5 MHz and 1656.5–1660 MHz shall not cause harmful interference to the
	stations in the fixed service operating in the countries listed in No. 5.359. (WRC-
	97)

5.375	The use of the band 1645.5–1646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress and safety communications
	(see Article 31).
5.376	Transmissions in the band 1646.5–1656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorised when such transmissions are used to extend or supplement the aircraft-to-satellite links.
5 276 A	
5.376A	Mobile earth stations operating in the band 1660–1660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)
5.379A	Administrations are urged to give all practicable protection in the band 1660.5–1668.4 MHz for future research in radio astronomy, particularly by eliminating airto-ground transmissions in the meteorological aids service in the band 1664.4–1668.4 MHz as soon as practicable.
5.379B	The use of the band 1668–1675 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. In the band 1668–1668.4 MHz, Resolution 904 (WRC-07) shall apply. (WRC 07)
5.379C	In order to protect the radio astronomy service in the band 1668–1670 MHz, the aggregate power flux-density values produced by mobile earth stations in a network of the mobile-satellite service operating in this band shall not exceed –181 dB(W/m2) in 10 MHz and 194dB(W/m2) in any 20 kHz at any radio astronomy station recorded in the Master International Frequency Register, for more than 2% of integration periods of 2 000 s. (WRC-03)
5.379D	For sharing of the band 1668.4–1675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution 744 (Rev.WRC-07) shall apply. (WRC-07)
5.379E	In the band 1668.4–1675 MHz, stations in the mobile-satellite service shall not cause harmful interference to stations in the meteorological aids service in China, Iran (Islamic Republic of), Japan and Uzbekistan. In the band 1668.4–1675 MHz, administrations are urged not to implement new systems in the meteorological aids service and are encouraged to migrate existing meteorological aids service operations to other bands as soon as practicable. (WRC-03)
5.380A	In the band 1670–1675 MHz, stations in the mobile-satellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorological-satellite service notified before 1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobile-satellite service. (WRC-07)
5.382	Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, the Russian Federation, Guinea, Iraq, Israel, Jordan, Kazakhstan, Kuwait, the Former Yugoslav Republic of Macedonia, Lebanon, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Turkmenistan, Ukraine and Yemen, the allocation of the frequency band 1690–1700 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33), and in the Dem. People's Rep. of Korea, the allocation of the frequency band 1690–1700 MHz to the fixed service is on a primary basis (see No. 5.33) and to the mobile, except aeronautical mobile, service on a secondary basis. (WRC 15)
5.384A	The frequency bands 1710–1885 MHz, 2300–2400 MHz and 2500–2690 MHz, or portions thereof, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC 15). This identification does not preclude the use of these

	frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC 15)
5.385	Additional allocation: the band 1718.8–1722.2 MHz is also allocated to the radio
	astronomy service on a secondary basis for spectral line observations. (WRC-
	2000)
5.388	The frequency bands 1885–2025 MHz and 2110–2200 MHz are intended for use,
	on a worldwide basis, by administrations wishing to implement International
	Mobile Telecommunications (IMT). Such use does not preclude the use of these
	frequency bands by other services to which they are allocated. The frequency
	bands should be made available for IMT in accordance with Resolution 212
	(Rev.WRC 15) (see also Resolution 223 (Rev.WRC 15)). (WRC 15)
5.388A	In Regions 1 and 3, the bands 1885–1980 MHz, 2010–2025 MHz and 2110–2170
	MHz and, in Region 2, the bands 1885–1980 MHz and 2110–2160 MHz may be
	used by high altitude platform stations as base stations to provide International
	Mobile Telecommunications (IMT), in accordance with Resolution 221
	(Rev.WRC 07). Their use by IMT applications using high altitude platform
	stations as base stations does not preclude the use of these bands by any station in
	the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-12)
5.389A	The use of the bands 1980–2010 MHz and 2170–2200 MHz by the mobile-satellite
3.307A	service is subject to coordination under No. 9.11A and to the provisions of
	Resolution 716 (Rev.WRC-2000). (WRC-07)
5.391	In making assignments to the mobile service in the frequency bands 2025–2110
	MHz and 2200–2290 MHz, administrations shall not introduce high-density
	mobile systems, as described in Recommendation ITU R SA.1154 0, and shall take
	that Recommendation into account for the introduction of any other type of mobile
	system. (WRC 15)
5.392	Administrations are urged to take all practicable measures to ensure that space-to-
	space transmissions between two or more non-geostationary satellites, in the space
	research, space operations and Earth exploration-satellite services in the bands
	2025–2110 MHz and 2200–2290 MHz, shall not impose any constraints on Earth-
	to-space, space-to-Earth and other space-to-space transmissions of those services
7.200	and in those bands between geostationary and non-geostationary satellites.
5.398	In respect of the radiodetermination-satellite service in the band 2483.5–2500
5 200 A	MHz, the provisions of No. 4.10 do not apply.
5.398A	Different category of service: In Armenia, Azerbaijan, Belarus, the Russian
	Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine, the band 2483.5–2500 MHz is allocated on a primary basis to the radiolocation service. The
	radiolocation stations in these countries shall not cause harmful interference to, or
	claim protection from, stations of the fixed, mobile and mobile-satellite services
	operating in accordance with the Radio Regulations in the frequency band 2483.5–
	2500 MHz. (WRC-12)
5.399	Except for cases referred to in No. 5.401, stations of the radiodetermination-
	satellite service operating in the frequency band 2483.5–2500 MHz for which
	notification information is received by the Bureau after 17 February 2012, and the
	service area of which includes Armenia, Azerbaijan, Belarus, the Russian
	Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine, shall not
	cause harmful interference to, and shall not claim protection from stations of the
	radiolocation service operating in these countries in accordance with No. 5.398A.
	(WRC-12)

5.402	The use of the band 2483.5–2500 MHz by the mobile-satellite and the
	radiodetermination-satellite services is subject to the coordination under No.
	9.11A. Administrations are urged to take all practicable steps to prevent harmful
	interference to the radio astronomy service from emissions in the 2483.5–2500
	MHz band, especially those caused by second-harmonic radiation that would fall
	into the 4990–5000 MHz band allocated to the radio astronomy service worldwide.
5.403	Subject to agreement obtained under No. 9.21, the band 2520–2535 MHz may also
	be used for the mobile-satellite (space-to-Earth), except aeronautical mobile-
	satellite, service for operation limited to within national boundaries. The
	provisions of No. 9.11A apply. (WRC-07)
5.410	The band 2500–2690 MHz may be used for tropospheric scatter systems in Region
	1, subject to agreement obtained under No. 9.21. No. 9.21 does not apply to
	tropospheric scatter links situated entirely outside Region 1. Administrations shall
	make all practicable efforts to avoid developing new tropospheric scatter systems
	in this band. When planning new tropospheric scatter radio-relay links in this band,
	all possible measures shall be taken to avoid directing the antennas of these links
	towards the geostationary-satellite orbit. (WRC-12)
5.412	Alternative allocation: in Kyrgyzstan and Turkmenistan, the band 2500–2690 MHz
	is allocated to the fixed and mobile, except aeronautical mobile, services on a
	primary basis. (WRC-12)
5.413	In the design of systems in the broadcasting-satellite service in the bands between
	2 500 MHz and 2 690 MHz, administrations are urged to take all necessary steps to
	protect the radio astronomy service in the band 2690–2700 MHz.
5.414	The allocation of the frequency band 2500–2520 MHz to the mobile-satellite
	service (space-to-Earth) is subject to coordination under No. 9.11A. (WRC-07)
5.416	The use of the band 2520–2670 MHz by the broadcasting-satellite service is
	limited to national and regional systems for community reception, subject to
	agreement obtained under No. 9.21. The provisions of No. 9.19 shall be applied by
	administrations in this band in their bilateral and multilateral negotiations. (WRC-
	07)
5.417C	Use of the band 2605–2630 MHz by non geostationary-satellite systems in the
	broadcasting-satellite service (sound), pursuant to No. 5.417A is, for which
	complete Appendix 4 coordination information, or notification information, has
	been received after 4 July 2003, is subject to the application of the provisions of
	No. 9.12. (WRC-03)
5.417D	Use of the band 2605–2630 MHz by geostationary-satellite networks for which
	complete Appendix 4 coordination information, or notification information, has
	been received after 4 July 2003 is subject to the application of the provisions of
	No. 9.13 with respect to non geostationary-satellite systems in the broadcasting-
	satellite service (sound), pursuant to No. 5.417A, and No. 22.2 does not apply.
	(WRC-03)
5.418B	Use of the band 2630–2655 MHz by non geostationary-satellite systems in the
	broadcasting-satellite service (sound), pursuant to No. 5.418, for which complete
	Appendix 4 coordination information, or notification information, has been
	received after 2 June 2000, is subject to the application of the provisions of No.
	9.12. (WRC-03)
5.418C	Use of the band 2630–2655 MHz by geostationary-satellite networks for which
	complete Appendix 4 coordination information, or notification information, has
	been received after 2 June 2000 is subject to the application of the provisions of
	No. 9.13 with respect to non geostationary-satellite systems in the broadcasting-
	11.0. 2.12 with respect to non-goodationary satellite systems in the oroadeasting-

	satellite service (sound), pursuant to No. 5.418 and No. 22.2 does not apply. (WRC-03)
5.419	When introducing systems of the mobile-satellite service in the band 2670–2690
0.11)	MHz, administrations shall take all necessary steps to protect the satellite systems
	operating in this band prior to 3 March 1992. The coordination of mobile-satellite
	systems in the band shall be in accordance with No. 9.11A. (WRC-07)
5.420	The band 2655–2670 MHz may also be used for the mobile-satellite (Earth-to-
	space), except aeronautical mobile-satellite, service for operation limited to within
	national boundaries, subject to agreement obtained under No. 9.21. The
	coordination under No. 9.11A applies. (WRC-07)
5.422	Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus,
	Brunei Darussalam, the Dem. Rep. of the Congo, Côte d'Ivoire, Cuba, Djibouti,
	Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Georgia, Guinea,
	Guinea-Bissau, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon,
	Mauritania, Mongolia, Montenegro, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, the Dem. Rep. of the Congo, Romania,
	Somalia, Tajikistan, Tunisia, Turkmenistan, Ukraine and Yemen, the band 2 690-2
	700 MHz is also allocated to the fixed and mobile, except aeronautical mobile,
	services on a primary basis. Such use is limited to equipment in operation by 1
	January 1985. (WRC-12)
5.423	In the band 2700–2900 MHz, ground-based radars used for meteorological
	purposes are authorised to operate on a basis of equality with stations of the
	aeronautical radionavigation service.
5.424A	In the band 2900–3100 MHz, stations in the radiolocation service shall not cause
	harmful interference to, nor claim protection from, radar systems in the
5 405	radionavigation service. (WRC-03)
5.425	In the band 2900–3100 MHz, the use of the shipborne interrogator-transponder system (SIT) shall be confined to the sub-band 2930–2950 MHz.
5.426	The use of the band 2 900-3 100 MHz by the aeronautical radionavigation service
3.720	is limited to ground-based radars.
5.427	In the bands 2900–3100 MHz and 9 300-9 500 MHz, the response from radar
	transponders shall not be capable of being confused with the response from radar
	beacons (racons) and shall not cause interference to ship or aeronautical radars in
	the radionavigation service, having regard, however, to No. 4.9.
5.430A	The allocation of the frequency band 3400–3600 MHz to the mobile, except
	aeronautical mobile, service is subject to agreement obtained under No. 9.21. This
	frequency band is identified for International Mobile Telecommunications (IMT).
	This identification does not preclude the use of this frequency band by any
	application of the services to which it is allocated and does not establish priority in
	the Radio Regulations. The provisions of Nos. 9.17 and 9.18 shall also apply in the coordination phase. Before an administration brings into use a (base or mobile)
	station of the mobile service in this frequency band, it shall ensure that the power
	flux-density (pfd) produced at 3 m above ground does not exceed -154.5
	$dB(W/(m2 \square 4 \text{ kHz}))$ for more than 20% of time at the border of the territory of
	any other administration. This limit may be exceeded on the territory of any
	country whose administration has so agreed. In order to ensure that the pfd limit at
	the border of the territory of any other administration is met, the calculations and
	verification shall be made, taking into account all relevant information, with the
	mutual agreement of both administrations (the administration responsible for the
	terrestrial station and the administration responsible for the earth station) and with
	the assistance of the Bureau if so requested. In case of disagreement, calculation

nd verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 400–3600 MHz shall not claim more protection from space stations than that
rovided in Table 21 4 of the Radio Regulations (Edition of 2004). (WRC 15)
Use of the frequency band 4200–4400 MHz by the aeronautical radionavigation dervice is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. (WRC-15)
The standard frequency and time signal-satellite service may be authorised to use the frequency 4202 MHz for space-to-Earth transmissions and the frequency 6427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of ±2 MHz of these frequencies, subject to agreement obtained under No. 9.21
The use of the bands 4500–4800 MHz (space-to-Earth), 6725–7025 MHz (Earth-Despace) by the fixed-satellite service shall be in accordance with the provisions of appendix 30B. The use of the bands 10.7–10.95 GHz (space-to-Earth), 11.2–11.45 GHz (space-to-Earth) and 12.75–13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service shall be in accordance with the rovisions of Appendix 30B. The use of the bands 10.7–10.95 GHz (space-to-Earth), 11.2–11.45 GHz (space-to-Earth) and 12.75–13.25 GHz (Earth-to-space) ya non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite system in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the formulation of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite system in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service in the above bands hall be operated in such a way that any unacceptable interference that may occur uring their operation shall be rapidly eliminated. (WRC 2000)
n the frequency bands 4825–4835 MHz and 4 950-4 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile, service. In Region 2 (except Brazil, Cuba, Guatemala, Mexico, Paraguay, Uruguay and Venezuela), and in Australia, the frequency band 4825–4835 MHz is also allocated to the aeronautical mobile service, limited to aeronautical mobile telemetry for eight testing by aircraft stations. Such use shall be in accordance with Resolution 16 (WRC 07) and shall not cause harmful interference to the fixed service. (WRC 5)
the frequency bands 5000–5030 MHz and 5091–5150 MHz, the aeronautical nobile-satellite (R) service is subject to agreement obtained under No. 9.21. The se of these bands by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems.
n order not to cause harmful interference to the microwave landing system perating above 5030 MHz, the aggregate power flux-density produced at the farth's surface in the frequency band 5030–5150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the frequency band 5010–5030 MHz shall not exceed –124.5 dB(W/m2) in a 150 Hz band. In order not to cause harmful interference to the radio astronomy the ervice in the frequency band 4990–5000 MHz, radionavigation-satellite service systems operating in the frequency band 5010–5030 MHz shall comply with the
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	limits in the frequency band 4990–5000 MHz defined in Resolution 741 (Rev.WRC 15). (WRC 15)
5.443C	The use of the frequency band 5030–5091 MHz by the aeronautical mobile (R)
	service is limited to internationally standardized aeronautical systems. Unwanted
	emissions from the aeronautical mobile (R) service in the frequency band 5030–
	5091 MHz shall be limited to protect RNSS system downlinks in the adjacent
	5010–5030 MHz band. Until such time that an appropriate value is established in a
	relevant ITU-R Recommendation, the e.i.r.p. density limit of -75 dBW/MHz in the frequency band 5010-5030 MHz for any AM(R)S station unwanted emission
5.443D	should be used. (WRC-12) In the frequency band 5030–5091 MHz, the aeronautical mobile-satellite (R)
3.443D	service is subject to coordination under No. 9.11A. The use of this frequency band
	by the aeronautical mobile-satellite (R) service is limited to internationally
	standardized aeronautical systems.
5.444	The frequency band 5030–5150 MHz is to be used for the operation of the
3.111	international standard system (microwave landing system) for precision approach
	and landing. In the frequency band 5030–5091 MHz, the requirements of this
	system shall have priority over other uses of this frequency band. For the use of the
	frequency band 5091–5150 MHz, No. 5.444A and Resolution 114 (Rev.WRC-15)
	apply. (WRC 15)
5.444A	The use of the allocation to the fixed-satellite service (Earth-to-space) in the
	frequency band 5091–5150 MHz is limited to feeder links of non geostationary
	satellite systems in the mobile-satellite service and is subject to coordination under
	No. 9.11A. The use of the frequency band 5091–5150 MHz by feeder links of non
	geostationary satellite systems in the mobile-satellite service shall be subject to
	application of Resolution 114 (Rev.WRC 15). Moreover, to ensure that the
	aeronautical radionavigation service is protected from harmful interference,
	coordination is required for feeder-link earth stations of the non-geostationary
	satellite systems in the mobile-satellite service which are separated by less than
	450 km from the territory of an administration operating ground stations in the aeronautical radionavigation service. (WRC 15)
5.444B	The use of the frequency band 5091–5150 MHz by the aeronautical mobile service
3.777	is limited to: – systems operating in the aeronautical mobile (R) service and in
	accordance with international aeronautical standards, limited to surface
	applications at airports. Such use shall be in accordance with Resolution 748
	(Rev.WRC 15); – aeronautical telemetry transmissions from aircraft stations (see
	No. 1.83) in accordance with Resolution 418 (Rev.WRC 15). (WRC 15)
5.446	Additional allocation: in the countries listed in No. 5.369, the frequency band
	5150–5216 MHz is also allocated to the radiodetermination-satellite service
	(space-to-Earth) on a primary basis, subject to agreement obtained under No. 9.21.
	In Region 2 (except in Mexico), the frequency band is also allocated to the
	radiodetermination-satellite service (space-to-Earth) on a primary basis. In Regions
	1 and 3, except those countries listed in No. 5.369 and Bangladesh, the frequency
	band is also allocated to the radiodetermination-satellite service (space-to-Earth)
	on a secondary basis. The use by the radiodetermination-satellite service is limited
	to feeder links in conjunction with the radiodetermination-satellite service
	operating in the frequency bands 1610–1626.5 MHz and/or 2483.5–2500 MHz. The total power flux-density at the Earth's surface shall in no case exceed –159
	<u> </u>
5.446A	dB(W/m2) in any 4 kHz band for all angles of arrival. (WRC 15) The use of the bands 5150–5350 MHz and 5470–5725 MHz by the stations in the
J.TTU/A	mobile, except aeronautical mobile, service shall be in accordance with Resolution
	229 (Rev. WRC-12). (WRC 12)
	1229 (RCV. WRC-12). (WRC 12)

= 446D	Tr. d. 1. 15150 5050 MT
5.446B	In the band 5150–5250 MHz, stations in the mobile service shall not claim
	protection from earth stations in the fixed-satellite service. No. 5.43A does not
	apply to the mobile service with respect to fixed-satellite service earth stations.
F 4460	(WRC-03)
5.446 C	Additional allocation: in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar,
	Syrian Arab Republic, Sudan, South Sudan and Tunisia) and in Brazil, the band
	5150–5250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see
	No. 1.83), in accordance with Resolution 418 (WRC-07). These stations shall not
	claim protection from other stations operating in accordance with Article 5. No.
	5.43A does not apply. (WRC-12)
5.447A	The allocation to the fixed-satellite service (Earth-to-space) is limited to feeder
3.44/A	links of non-geostationary-satellite systems in the mobile-satellite service and is
	subject to coordination under No. 9.11A.
5.447B	"Additional allocation: the band 5150–5216 MHz is also allocated to the fixed-
24	satellite service (space-to-Earth) on a primary basis. This allocation is limited to
	feeder links of non-geostationary-satellite systems in the mobile-satellite service
	and is subject to provisions of No. 9.11A. The power flux-density at the Earth's
	surface produced by space stations of the fixed-satellite service operating in the
	space-to-Earth direction in the band 5150–5216 MHz shall in no case exceed –164
	dB(W/m ²) in any 4 kHz band for all angles of arrival.
5.447D	The allocation of the band 5250–5255 MHz to the space research service on a
	primary basis is limited to active spaceborne sensors. Other uses of the band by the
	space research service are on a secondary basis. (WRC-97)
5.447F	In the frequency band 5250–5350 MHz, stations in the mobile service shall not
	claim protection from the radiolocation service, the Earth exploration-satellite
	service (active) and the space research service (active). These services shall not
	impose on the mobile service more stringent protection criteria, based on system
	characteristics and interference criteria, than those stated in Recommendations ITU
5.448A	R M.1638 0 and ITU R RS.1632 0. (WRC 15) The Forth exploration setallite (entire) and around response (active) services in the
5.440A	The Earth exploration-satellite (active) and space research (active) services in the frequency band 5250–5350 MHz shall not claim protection from the radiolocation
	service. No. 5.43A does not apply. (WRC-03).
5.448B	The Earth exploration-satellite service (active) operating in the band 5350–5570
	MHz and space research service (active) operating in the band 5460–5570 MHz
	shall not cause harmful interference to the aeronautical radionavigation service in
	the band 5350–5460 MHz, the radionavigation service in the band 5460–5470
	MHz and the maritime radionavigation service in the band 5470–5570 MHz.
	(WRC-03)
5.448C	The space research service (active) operating in the band 5 350-5 460 MHz shall
	not cause harmful interference to nor claim protection from other services to which
	this band is allocated. (WRC-03)
5.448D	In the frequency band 5350–5470 MHz, stations in the radiolocation service shall
	not cause harmful interference to, nor claim protection from, radar systems in the
	aeronautical radionavigation service operating in accordance with No. 5.449.
5 440	(WRC-03) The way of the hand 5250, 5470 MHz by the communical radiancy institution convicains
5.449	The use of the band 5350–5470 MHz by the aeronautical radionavigation service is
5.450A	limited to airborne radars and associated airborne beacons. In the frequency band 5470–5725 MHz, stations in the mobile service shall not
3.43UA	claim protection from radiodetermination services. Radiodetermination services
	ciann protection from radiodetermination services. Radiodetermination services

	shall not impose on the mobile service more stringent protection criteria, based on
	system characteristics and interference criteria, than those stated in
	Recommendation ITU R M.1638 0. (WRC 15)
5.450B	In the frequency band 5470–5650 MHz, stations in the radiolocation service,
	except ground-based radars used for meteorological purposes in the band 5600-
	5650 MHz, shall not cause harmful interference to, nor claim protection from,
	radar systems in the maritime radionavigation service. (WRC-03)
5.452	Between 5600 MHz and 5650 MHz, ground-based radars used for meteorological
	purposes are authorised to operate on a basis of equality with stations of the maritime radionavigation service.
5.454	Different category of service: in Azerbaijan, the Russian Federation, Georgia,
3.737	Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 5670–5725
	MHz to the space research service is on a primary basis (see No. 5.33). (WRC-12)
5.455	Additional allocation: in Armenia, Azerbaijan, Belarus, Cuba, the Russian
	Federation, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan,
	Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 5 670-5 850 MHz is
	also allocated to the fixed service on a primary basis. (WRC-07)
5.457A	In the frequency bands 5925–6425 MHz and 14–14.5 GHz, earth stations located
	on board vessels may communicate with space stations of the fixed-satellite
	service. Such use shall be in accordance with Resolution 902 (WRC 03). In the
	frequency band 5925–6425 MHz, earth stations located on board vessels and
	communicating with space stations of the fixed-satellite service may employ
	transmit antennas with minimum diameter of 1.2 m and operate without prior
	agreement of any administration if located at least 330 km away from the low-
	water mark as officially recognized by the coastal State. All other provisions of
5.458	Resolution 902 (WRC-03) shall apply. (WRC-15) In the band 6425–7075 MHz, passive microwave sensor measurements are carried
3.430	out over the oceans. In the band 7075–7250 MHz, passive microwave sensor
	measurements are carried out. Administrations should bear in mind the needs of
	the Earth exploration-satellite (passive) and space research (passive) services in
	their future planning of the bands 6425–7025 MHz and 7075–7250 MHz.
5.458A	In making assignments in the band 6 700-7 075 MHz to space stations of the fixed-
	satellite service, administrations are urged to take all practicable steps to protect
	spectral line observations of the radio astronomy service in the band 6650–6675.2
	MHz from harmful interference from unwanted emissions.
5.458B	The space-to-Earth allocation to the fixed-satellite service in the band 6 700-7 075
	MHz is limited to feeder links for non-geostationary satellite systems of the
	mobile-satellite service and is subject to coordination under No. 9.11A. The use of
	the band 6700–7075 MHz (space-to-Earth) by feeder links for non-geostationary satellite systems in the mobile-satellite service is not subject to No. 22.2.
5.458C	Administrations making submissions in the band 7025–7075 MHz (Earth-to-space)
3.4300	for geostationary-satellite systems in the fixed-satellite service after 17 November
	1995 shall consult on the basis of relevant ITU-R Recommendations with the
	administrations that have notified and brought into use non-geostationary-satellite
	systems in this frequency band before 18 November 1995 upon request of the latter
	administrations. This consultation shall be with a view to facilitating shared
	operation of both geostationary-satellite systems in the fixed-satellite service and
	non-geostationary-satellite systems in this band.
5.459	Additional allocation: in the Russian Federation, the frequency bands 7100–7155
	MHz and 7190–7235 MHz are also allocated to the space operation service (Earth-
	to-space) on a primary basis, subject to agreement obtained under No. 9.21. In the

	frequency band 7190–7235 MHz, with respect to the Earth exploration-satellite
5.460	service (Earth-to-space), No. 9.21 does not apply. (WRC 15) No emissions from space research service (Earth-to-space) systems intended for
3.400	deep space shall be effected in the frequency band 7190–7235 MHz. Geostationary
	satellites in the space research service operating in the frequency band 7 190-7 235
	MHz shall not claim protection from existing and future stations of the fixed and
	mobile services and No. 5.43A does not apply. (WRC 15)
5.461	Additional allocation: the bands 7250–7375 MHz (space-to-Earth) and 7900–8025
	MHz (Earth-to-space) are also allocated to the mobile-satellite service on a
	primary basis, subject to agreement obtained under No. 9.21.
5.461A	The use of the band 7450–7550 MHz by the meteorological-satellite service
	(space-to-Earth) is limited to geostationary-satellite systems. Non-geostationary
	meteorological-satellite systems in this band notified before 30 November 1997
	may continue to operate on a primary basis until the end of their lifetime. (WRC-97)
5.461B	The use of the band 7750–7900 MHz by the meteorological-satellite service
	(space-to-Earth) is limited to non-geostationary satellite systems. (WRC-12)
5.462A	In Regions 1 and 3 (except for Japan), in the band 8025–8400 MHz, the Earth
	exploration-satellite service using geostationary satellites shall not produce a
	power flux-density in excess of the following provisional values for angles of arrival (θ) , without the consent of the affected administration:
	-135 dB(W/m2) in a 1 MHz band for $0^{\circ} \le \theta < 5^{\circ}$
	-135 dB(W/m2) in a 1 WHz band for $5^{\circ} \le \theta < 25^{\circ}$
	$-125 \text{ dB(W/m}^2)$ in a 1 MHz band for $25^\circ \le \theta < 90^\circ$
	These values are subject to study under Resolution 124 (WRC-97)*. (WRC-97).
	*Note by the Secretariat: This Resolution was revised by WRC-2000
5.463	Aircraft stations are not permitted to transmit in the band 8025–8400 MHz. (WRC-97)
5.465	5.465 In the space research service, the use of the band 8400–8450 MHz is limited
	to deep space.
5.469	Additional allocation: in Armenia, Azerbaijan, Belarus, Georgia, Hungary,
	Lithuania, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Czech Rep., Romania,
	the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8500–8750 MHz is also allocated to the land mobile and radionavigation services on a
	primary basis. (WRC-12)
5.469A	In the band 8550–8650 MHz, stations in the Earth exploration-satellite service
0.10711	(active) and space research service (active) shall not cause harmful interference to,
	or constrain the use and development of, stations of the radiolocation service.
	(WRC-97)
5.470	The use of the band 8750–8850 MHz by the aeronautical radionavigation service is
	limited to airborne Doppler navigation aids on a centre frequency of 8800 MHz.
5.472	In the bands 8850–9000 MHz and 9200–9225 MHz, the maritime radionavigation
- 4-0	service is limited to shore-based radars.
5.473	Additional allocation: in Armenia, Austria, Azerbaijan, Belarus, Cuba, the Russian
	Federation, Georgia, Hungary, Mongolia, Uzbekistan, Poland, Kyrgyzstan,
	Romania, Tajikistan, Turkmenistan and Ukraine, the bands 8850–9000 MHz and
	9200–9300 MHz are also allocated to the radionavigation service on a primary basis. (WRC-07)
5.473A	In the band 9 000-9 200 MHz, stations operating in the radiolocation service shall
3.173A	not cause harmful interference to, nor claim protection from, systems identified in
	No. 5.337 operating in the aeronautical radionavigation service, or radar systems in

	the maritime radionavigation service operating in this band on a primary basis in
	the countries listed in No. 5.471. (WRC-07)
5.474	In the band 9200–9500 MHz, search and rescue transponders (SART) may be
	used, having due regard to the appropriate ITU-R Recommendation (see also
5 475	Article 31).
5.475	The use of the band 9300–9500 MHz by the aeronautical radionavigation service is
	limited to airborne weather radars and ground-based radars. In addition, ground-based radar beacons in the aeronautical radionavigation service are permitted in the
	band 9300–9320 MHz on condition that harmful interference is not caused to the
	maritime radionavigation service. (WRC-07)
5.475A	The use of the band 9300–9500 MHz by the Earth exploration-satellite service
J. T /JA	(active) and the space research service (active) is limited to systems requiring
	necessary bandwidth greater than 300 MHz that cannot be fully accommodated
	within the 9500–9800 MHz band. (WRC-07)
5.475B	In the band 9300–9500 MHz, stations operating in the radiolocation service shall
CITTED	not cause harmful interference to, nor claim protection from, radars operating in
	the radionavigation service in conformity with the Radio Regulations. Ground-
	based radars used for meteorological purposes have priority over other
	radiolocation uses. (WRC-07)
5.476A	In the band 9300–9800 MHz, stations in the Earth exploration-satellite service
	(active) and space research service (active) shall not cause harmful interference to,
	nor claim protection from, stations of the radionavigation and radiolocation
	services. (WRC-07)
5.478A	In the band 9800–9900 MHz, stations in the Earth exploration-satellite service
	(active) and space research service (active) shall not cause harmful interference to,
	nor claim protection from stations of the fixed service to which this band is
5 450D	allocated on a secondary basis.
5.478B	The use of the band 9800–9900 MHz by the Earth exploration-satellite service
	(active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 500 MHz that cannot be fully accommodated
	within the 9300–9800 MHz band.
5.479	The band 9975–10025 MHz is also allocated to the meteorological-satellite service
0.175	on a secondary basis for use by weather radars.
5.482	In the band 10.6–10.68 GHz, the power delivered to the antenna of stations of the
	fixed and mobile, except aeronautical mobile, services shall not exceed -3 dBW.
	This limit may be exceeded, subject to agreement obtained under No. 9.21.
	However, in Algeria, Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh,
	Belarus, Egypt, United Arab Emirates, Georgia, India, Indonesia, Iran (Islamic
	Republic of), Iraq, Jordan, Libyan Arab Jamahiriya, Kazakhstan, Kuwait,
	Lebanon, Morocco, Mauritania, Moldova, Nigeria, Oman, Uzbekistan, Pakistan,
	Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, Singapore, Tajikistan,
	Tunisia, Turkmenistan and Viet Nam, this restriction on the fixed and mobile,
7 400 4	except aeronautical mobile, service is not applicable. (WRC-07)
5.482A	For sharing of the band 10.6–10.68 GHz between the Earth exploration-satellite
	(passive) service and the fixed and mobile, except aeronautical mobile, services,
<i>5</i> 404	Resolution 751 (WRC-07) applies. (WRC-07)
5.484	In Region 1, the use of the band 10.7–11.7 GHz by the fixed-satellite service
5.484A	(Earth-to-space) is limited to feeder links for the oadcasting-satellite service. The use of the bands 10.95–11.2 GHz (space-to-Earth), 11.45–11.7 GHz (space-to-
J.404A	Earth), 11.7–12.2 GHz (space-to-Earth) in Region 2, 12.2–12.75 GHz (space-to-
	Earth) in Region 3, 12.5–12.75 GHz (space-to-Earth) in Region 1, 13.75–14.5 GHz
	Land in Region 3, 12.3–12.73 OHZ (space-to-Land) in Region 1, 13.73–14.3 OHZ

	(Earth-to-space), 17.8–18.6 GHz (space-to-Earth), 19.7–20.2 GHz (space-to-Earth), 27.5–28.6 GHz (Earth-to-space), 29.5–30 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete
	coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly
5.487	eliminated. (WRC-2000) In the band 11.7–12.5 GHz in Regions 1 and 3, the fixed, fixed-satellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcasting-satellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix 30. (WRC-03)
5.487A	Additional allocation: in Region 1, the band 11.7–12.5 GHz, in Region 2, the band 12.2–12.7 GHz and, in Region 3, the band 11.7–12.2 GHz, are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis, limited to nongeostationary systems and subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the broadcasting-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-03)
5.492	Assignments to stations of the broadcasting-satellite service which are in conformity with the appropriate regional Plan or included in the Regions 1 and 3 List in Appendix 30 may also be used for transmissions in the fixed-satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcasting-satellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
5.497	The use of the band 13.25–13.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
5.498A	The Earth exploration-satellite (active) and space research (active) services operating in the band 13.25–13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
5.501A	The allocation of the frequency band 13.65–13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15)

5 501D	In the hand 12 / 12 75 CII. the court and and a section and 11'to (t') and
5.501B	In the band 13.4–13.75 GHz, the earth exploration-satellite (active) and space
	research (active) services shall not cause harmful interference to, or constrain the
F F03	use and development of, the radiolocation service. (WRC-97)
5.502	In the band 13.75–14 GHz, an earth station of a geostationary fixed-satellite
	service network shall have a minimum antenna diameter of 1.2 m and an earth
	station of a non-geostationary fixed-satellite service system shall have a minimum
	antenna diameter of 4.5 m. In addition, the e.i.r.p., averaged over one second,
	radiated by a station in the radiolocation or radionavigation services shall not
	exceed 59 dBW for elevation angles above 2° and 65 dBW at lower angles. Before
	an administration brings into use an earth station in a geostationary-satellite
	network in the fixed-satellite service in this band with an antenna size smaller than
	4.5 m, it shall ensure that the power flux-density produced by this earth station
	does not exceed: 1) –115 dB(W/(m2 • 10 MHz)) for more than 1% of the time
	produced at 36 m above sea level at the low water mark, as officially recognized
	by the coastal State; 2) –115 dB(W/(m2 • 10 MHz)) for more than 1% of the time
	produced 3 m above ground at the border of the territory of an administration
	deploying or planning to deploy land mobile radars in this band, unless prior
	agreement has been obtained. For earth stations within the fixed-satellite service
	having an antenna diameter greater than or equal to 4.5 m, the e.i.r.p. of any
# #03	emission should be at least 68 dBW and should not exceed 85 dBW. (WRC-03)
5.503	In the band 13.75–14 GHz, geostationary space stations in the space research
	service for which information for advance publication has been received by the
	Bureau prior to 31 January 1992 shall operate on an equal basis with stations in the
	fixed-satellite service; after that date, new geostationary space stations in the space
	research service will operate on a secondary basis. Until those geostationary space
	stations in the space research service for which information for advance
	publication has been received by the Bureau prior to 31 January 1992 cease to
	operate in this band: – in the band 13.77–13.78 GHz, the e.i.r.p. density of
	emissions from any earth station in the fixed-satellite service operating with a
	space station in geostationary-satellite orbit shall not exceed: i) 4.7D + 28
	dB(W/40 kHz), where D is the fixed-satellite service earth station antenna
	diameter (m) for antenna diameters equal to or greater than 1.2 m and less than 4.5 m; ii) $49.2 + 20 \log(D/4.5) dB(W/40 \text{ kHz})$, where D is the fixed-satellite service
	earth station antenna diameter (m) for antenna diameters equal to or greater than 4.5 m and less than 31.9 m; iii) 66.2 dB(W/40 kHz) for any fixed-satellite service
	earth station for antenna diameters (m) equal to or greater than 31.9 m; iv) 56.2
	dB(W/4 kHz) for narrow-band (less than 40 kHz of necessary bandwidth) fixed-
	satellite service earth station emissions from any fixed-satellite service earth
	station having an antenna diameter of 4.5 m or greater; – the e.i.r.p. density of
	emissions from any earth station in the fixed-satellite service operating with a
	space station in non-geostationary-satellite orbit shall not exceed 51 dBW in the 6
	MHz band from 13.772 to 13.778 GHz. Automatic power control may be used to
	increase the e.i.r.p. density in these frequency ranges to compensate for rain
	attenuation, to the extent that the power flux-density at the fixed-satellite service
	space station does not exceed the value resulting from use by an earth station of an
	e.i.r.p. meeting the above limits in clear-sky conditions. (WRC-03)
5.504	The use of the band 14–14.3 GHz by the radionavigation service shall be such as
3.304	to provide sufficient protection to space stations of the fixed-satellite service.
5.504A	In the band 14–14.5 GHz, aircraft earth stations in the secondary aeronautical
0.00111	mobile-satellite service may also communicate with space stations in the fixed-
	satellite service. The provisions of Nos. 5.29, 5.30 and 5.31 apply. (WRC-03)
<u> </u>	second service. The provisions of 1005, 5.27, 5.50 and 5.51 appry. (Wite-05)

5.506	The band 14–14.5 GHz may be used, within the fixed-satellite service (Earth-to-
	space), for feeder links for the broadcasting-satellite service, subject to
	coordination with other networks in the fixed-satellite service. Such use of feeder
5.506A	links is reserved for countries outside Europe. In the band 14–14.5 GHz, ship earth stations with an e.i.r.p. greater than 21 dBW
3.300A	shall operate under the same conditions as earth stations located on board vessels,
	as provided in Resolution 902 (WRC-03). This footnote shall not apply to ship
	earth stations for which the complete Appendix 4 information has been received by
	the Bureau prior to 5 July 2003. (WRC-03)
5.510	Except for use in accordance with Resolution 163 (WRC 15) and Resolution 164
	(WRC 15), the use of the frequency band 14.5–14.8 GHz by the fixed-satellite
	service (Earth-to-space) is limited to feeder links for the broadcasting-satellite
	service. This use is reserved for countries outside Europe. Uses other than feeder
	links for the broadcasting-satellite service are not authorized in Regions 1 and 2 in the frequency band 14.75–14.8 GHz. (WRC 15)
5.511A	Use of the frequency band 15.43–15.63 GHz by the fixed-satellite service (Earth-
3.31111	to-space) is limited to feeder links of non-geostationary systems in the mobile-
	satellite service, subject to coordination under No. 9.11A. (WRC 15)
5.511C	Stations operating in the aeronautical radionavigation service shall limit the
	effective e.i.r.p. in accordance with Recommendation ITU R S.1340 0. The
	minimum coordination distance required to protect the aeronautical
	radionavigation stations (No. 4.10 applies) from harmful interference from feeder-
	link earth stations and the maximum e.i.r.p. transmitted towards the local
	horizontal plane by a feeder-link earth station shall be in accordance with
5.511D	Recommendation ITU R S.1340 0. (WRC 15) Fixed-satellite service systems for which complete information for advance
3.311D	publication has been received by the Bureau by 21 November 1997 may operate in
	the bands 15.4–15.43 GHz and 15.63–15.7 GHz in the space-to-Earth direction and
	15.63–15.65 GHz in the Earth-to-space direction. In the bands 15.4–15.43 GHz
	and 15.65–15.7 GHz, emissions from a non-geostationary space station shall not
	exceed the power flux-density limits at the Earth's surface of –146
	dB(W/m2/MHz) for any angle of arrival. In the band 15.63–15.65 GHz, where an
	administration plans emissions from a non-geostationary space station that exceed
	-146 dB(W/m2/MHz) for any angle of arrival, it shall coordinate under No. 9.11A
	with the affected administrations. Stations in the fixed-satellite service operating in the band 15.63–15.65 GHz in the Earth-to-space direction shall not cause harmful
	interference to stations in the aeronautical radionavigation service (No. 4.10
	applies). (WRC-97)
5.511E	In the frequency band 15.4–15.7 GHz, stations operating in the radiolocation
	service shall not cause harmful interference to, or claim protection from, stations
	operating in the aeronautical radionavigation service. (WRC 12)
5.511F	In order to protect the radio astronomy service in the frequency band 15.35–15.4
	GHz, radiolocation stations operating in the frequency band 15.4–15.7 GHz shall
	not exceed the power flux-density level of -156 dB(W/m2) in a 50 MHz
	bandwidth in the frequency band 15.35–15.4 GHz, at any radio astronomy
5.512	observatory site for more than 2 per cent of the time. (WRC 12) Additional allocation: in Algeria, Saudi Arabia, Austria, Bahrain, Bangladesh,
3.314	Brunei Darussalam, Cameroon, Congo (Rep. of the), Egypt, El Salvador, the
	United Arab Emirates, Eritrea, Finland, Guatemala, India, Indonesia, Iran (Islamic
	Republic of), Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco,
	Mauritania, Montenegro, Nepal, Nicaragua, Niger, Oman, Pakistan, Qatar, Syrian

	Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, South
	Sudan, Chad, Togo and Yemen, the frequency band 15.7–17.3 GHz is also
5 512 A	allocated to the fixed and mobile services on a primary basis. (WRC 15)
5.513A	Spaceborne active sensors operating in the band 17.2–17.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and
	other services allocated on a primary basis. (WRC-97)
5.516	The use of the band 17.3–18.1 GHz by geostationary-satellite systems in the fixed-
3.310	satellite service (Earth-to-space) is limited to feeder links for the broadcasting-
	satellite service. The use of the band 17.3–17.8 GHz in Region 2 by systems in the
	fixed-satellite service (Earth-to-space) is limited to geostationary satellites. For the
	use of the band 17.3–17.8 GHz in Region 2 by feeder links for the broadcasting
	satellite service in the band 12.2–12.7 GHz, see Article 11. The use of the bands
	17.3–18.1 GHz (Earth-to-space) in Regions 1 and 3 and 17.8–18.1 GHz (Earth-to-
	space) in Region 2 by non geostationary-satellite systems in the fixed-satellite
	service is subject to application of the provisions of No. 9.12 for coordination with
	other non-geostationary-satellite systems in the fixed-satellite service. Non
	geostationary-satellite systems in the fixed satellite service shall not claim
	protection from geostationary-satellite networks in the fixed-satellite service
	operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as
	appropriate, for the non-geostationary-satellite systems in the fixed-satellite service
	and of the complete coordination or notification information, as appropriate, for
	the geostationary-satellite networks, and No. 5.43A does not apply. Non-
	geostationary-satellite systems in the fixed-satellite service in the above bands
	shall be operated in such a way that any unacceptable interference that may occur
	during their operation shall be rapidly eliminated. (WRC-2000)
5.516A	In the band 17.3–17.7 GHz, earth stations of the fixed-satellite service (space-to-
	Earth) in Region 1 shall not claim protection from the broadcasting-satellite
	service feeder-link earth stations operating under Appendix 30A, nor put any
	limitations or restrictions on the locations of the broadcasting-satellite service
	feeder-link earth stations anywhere within the service area of the feeder link.
5 51 CD	(WRC-03)
5.516B	"The following bands are identified for use by high-density applications in the fixed-satellite service (HDFSS):
	17.3–17.7 GHz (space-to-Earth) in Region 1,
	18.3–19.3 GHz (space-to-Earth) in Region 2,
	19.7–20.2 GHz (space-to-Earth) in all Regions,
	39.5–40 GHz (space-to-Earth) in Region 1,
	40–40.5 GHz (space-to-Earth) in all Regions,
	40.5–42 GHz (space-to-Earth) in Region 2,
	47.5–47.9 GHz (space-to-Earth) in Region 1,
	48.2–48.54 GHz (space-to-Earth) in Region 1,
	49.44–50.2 GHz (space-to-Earth) in Region 1, and
	27.5–27.82 GHz (Earth-to-space) in Region 1,
	28.35–28.45 GHz (Earth-to-space) in Region 2, 28.45–28.94 GHz (Earth-to-space) in all Regions,
	28.94–29.1 GHz (Earth-to-space) in Regions, 28.94–29.1 GHz (Earth-to-space) in Region 2 and 3,
	29.25–29.46 GHz (Earth-to-space) in Region 2,
	29.46–30 GHz (Earth-to-space) in all Regions,
	48.2–50.2 GHz (Earth-to-space) in Region 2.
	This identification does not preclude the use of these bands by other fixed-satellite
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	service applications or by other services to which these bands are allocated on a

	co-primary basis and does not establish priority in these Regulations among users
	of the bands. Administrations should take this into account when considering
	regulatory provisions in relation to these bands. See Resolution 143 (WRC-03)*.
	(WRC-03) *Note by the Secretariat: This Resolution was revised by WRC-07
5.519	Additional allocation: the bands 18.0–18.3 GHz in Region 2 and 18.1–18.4 GHz in
	Regions 1 and 3 are also allocated to the meteorological-satellite service (space-to-
	Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-
5.520	07) The use of the band 18.1–18.4 GHz by the fixed-satellite service (Earth-to-space)
5.520	is limited to feeder links of geostationary-satellite systems in the broadcasting-
	satellite service. (WRC-2000)
5.522A	The emissions of the fixed service and the fixed-satellite service in the band 18.6–
0.02211	18.8 GHz are limited to the values given in Nos. 21.5A and 21.16.2, respectively.
	(WRC-2000)
5.522B	The use of the band 18.6–18.8 GHz by the fixed-satellite service is limited to
	geostationary systems and systems with an orbit of apogee greater than 20 000 km.
	(WRC-2000)
5.523A	The use of the bands 18.8-19.3 GHz (space-to-Earth) and 28.6–29.1 GHz (Earth-
	to-space) by geostationary and non-geostationary fixed satellite service networks is
	subject to the application of the provisions of No. 9.11A and No. 22.2 does not
	apply. Administrations having geostationary-satellite networks under coordination
	prior to 18 November 1995 shall cooperate to the maximum extent possible to
	coordinate pursuant to No. 9.11A with non-geostationary-satellite networks for
	which notification information has been received by the Bureau prior to that date,
	with a view to reaching results acceptable to all the parties concerned. Non-
	geostationary-satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service networks for which complete Appendix 4
	notification information is considered as having been received by the Bureau prior
	to 18 November 1995. (WRC-97)
5.523B	The use of the band 19.3–19.6 GHz (Earth-to-space) by the Fixed-satellite service
0.0202	is limited to feeder links for non-geostationary-satellite systems in the mobile-
	satellite service. Such use is subject to the application of the provisions of No.
	9.11A, and No. 22.2 does not apply.
5.523C	No. 22.2 of the Radio Regulations shall continue to apply in the bands 19.3–19.6
	GHz and 29.1 29.4 GHz, between feeder links of non-geostationary mobile-
	satellite service networks and those fixed-satellite service networks for which
	complete Appendix 4 coordination information, or notification information, is
	considered as having been received by the Bureau prior to 18 November 1995.
7. 500D	(WRC-97)
5.523D	The use of the band 19.3–19.7 GHz (space-to-Earth) by geostationary fixed-
	satellite service systems and by feeder links for non-geostationary-satellite systems in the mobile-satellite service is subject to the application of the provisions of No.
	9.11A, but not subject to the provisions of No. 22.2. The use of this band for other
	non-geostationary fixed-satellite service systems, or for the cases indicated in Nos.
	5.523C and 5.523E, is not subject to the provisions of No. 9.11A and shall
	continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to
	the provisions of No. 22.2. (WRC-97)
5.523E	No. 22.2 shall continue to apply in the bands 19.6–19.7 GHz and 29.4–29.5 GHz,
	between feeder links of non-geostationary mobile-satellite service networks and
	those fixed-satellite service networks for which complete Appendix 4 coordination

	information, or notification information, is considered as having been received by
5.535	the Bureau by 21 November 1997. (WRC-97)
5.525	In order to facilitate interregional coordination between networks in the mobile- satellite and fixed-satellite services, carriers in the mobile-satellite service that are
	most susceptible to interference shall, to the extent practicable, be located in the
	higher parts of the bands 19.7–20.2 GHz and 29.5–30 GHz
5.526	In the bands 19.7–20.2 GHz and 29.5–30 GHz in Region 2, and in the bands 20.1–
3.320	20.2 GHz and 29.9–30 GHz in Regions 1 and 3, networks which are both in the
	fixed-satellite service and in the mobile-satellite service may include links between
	earth stations at specified or unspecified points or while in motion, through one or
	more satellites for point-to-point and point-to-multipoint communications.
5.527	In the bands 19.7–20.2 GHz and 29.5–30 GHz, the provisions of No 4.10 do not
	apply with respect to the mobile-satellite service.
5.528	The allocation to the mobile-satellite service is intended for use by networks which
	use narrow spot-beam antennas and other advanced technology at the space
	stations. Administrations operating systems in the mobile-satellite service in the
	band 19.7–20.1 GHz in Region 2 and in the band 20.1–20.2 GHz shall take all
	practicable steps to ensure the continued availability of these bands for
	administrations operating fixed and mobile systems in accordance with the
	provisions of No. 5.524.
5.530A	Unless otherwise agreed between the administrations concerned, any station in the
	fixed or mobile services of an administration shall not produce a power flux-
	density in excess of -120.4 dB(W/(m2 · MHz)) at 3 m above the ground of any
	point of the territory of any other administration in Regions 1 and 3 for more than 20% of the time. In conducting the calculations, administrations should use the
	most recent version of Recommendation ITU R P.452 (see also the most recent
	version of Recommendation ITU R BO.1898). (WRC 15)
5.530B	In the band 21.4–22 GHz, in order to facilitate the development of the
	broadcasting-satellite service, administrations in Regions 1 and 3 are encouraged
	not to deploy stations in the mobile service and are encouraged to limit the
	deployment of stations in the fixed service to point-to-point links. (WRC-12)
5.530D	See Resolution 555 (WRC-12). (WRC-12)
5.532	The use of the band 22.21–22.5 GHz by the Earth exploration-satellite (passive)
	and space research (passive) services shall not impose constraints upon the fixed
·	and mobile, except aeronautical mobile, services.
5.532A	The location of earth stations in the space research service shall maintain a
	separation distance of at least 54 km from the respective border(s) of neighbouring countries to protect the existing and future deployment of fixed and mobile
	services unless a shorter distance is otherwise agreed between the corresponding
	administrations. Nos. 9.17 and 9.18 do not apply.
5.532B	Use of the band 24.65–25.25 GHz in Region 1 and the band 24.65–24.75 GHz in
	Region 3 by the fixed-satellite service (Earth-to-space) is limited to earth stations
	using a minimum antenna diameter of 4.5 m. (WRC-12)
5.535A	The use of the band 29.1–29.5 GHz (Earth-to-space) by the fixed-satellite service
	is limited to geostationary-satellite systems and feeder links to non-geostationary-
	satellite systems in the mobile-satellite service. Such use is subject to the
	application of the provisions of No. 9.11A, but not subject to the provisions of No.
	22.2, except as indicated in Nos. 5.523C and 5.523E where such use is not subject
	to the provisions of No. 9.11A and shall continue to be subject to Articles 9
	(except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-
	97)

5.536	Use of the 25.25–27.5 GHz band by the inter-satellite service is limited to space
	research and Earth exploration-satellite applications, and also transmissions of data
7.73CA	originating from industrial and medical activities in space.
5.536A	Administrations operating earth stations in the Earth exploration-satellite service or
	the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the
	Earth exploration-satellite service or in the space research service should be
	operated taking into account Recommendation ITU-R SA.1862. (WRC-12)
5.536B	In Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of),
	Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran
	(Islamic Republic of), Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon,
	Libya, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines,
	Poland, Portugal, the Syrian Arab Republic, Dem. People's Rep. of Korea,
	Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Sweden,
	Tanzania, Turkey, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the frequency band 25.5–27 GHz shall not claim
	protection from, or constrain the use and deployment of, stations of the fixed and
	mobile services. (WRC 15)
5.536C	In Algeria, Saudi Arabia, Bahrain, Botswana, Brazil, Cameroon, Comoros, Cuba,
	Djibouti, Egypt, United Arab Emirates, Estonia, Finland, Iran (Islamic Rep. of),
	Israel, Jordan, Kenya, Kuwait, Lithuania, Malaysia, Morocco, Nigeria, Oman,
	Qatar, the Syrian Arab Republic, Somalia, Sudan, South Sudan, Tanzania, Tunisia,
	Uruguay, Zambia and Zimbabwe, earth stations operating in the space research
	service in the band 25.5-27 GHz shall not claim protection from, or constrain the
	use and deployment of, stations of the fixed and mobile services. (WRC-03)
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5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia,
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives,
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem.
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or
5.537A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services
	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12)
5.537A 5.538	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are
	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for
	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth
	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.)
	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite
	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.)
5.538	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07) The band 27.5–30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.
5.538	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07) The band 27.5–30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service. Additional allocation: the band 27.501–29.999 GHz is also allocated to the fixed-
5.538	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07) The band 27.5–30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service. Additional allocation: the band 27.501–29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions
5.539 5.540	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07) The band 27.5–30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service. Additional allocation: the band 27.501–29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.
5.538	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07) The band 27.5–30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service. Additional allocation: the band 27.501–29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control. In the band 28.5–30 GHz, the earth exploration-satellite service is limited to the
5.539 5.540	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12) Additional allocation: the bands 27.500–27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space to Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07) The band 27.5–30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service. Additional allocation: the band 27.501–29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.

5.541A	Feeder links of non-geostationary networks in the mobile-satellite service and geostationary networks in the fixed-satellite service operating in the band 29.1–29.5 GHz (Earth-to-space) shall employ uplink adaptive power control or other methods of fade compensation, such that the earth station transmissions shall be conducted at the power level required to meet the desired link performance while reducing the level of mutual interference between both networks. These methods shall apply to networks for which Appendix 4 coordination information is considered as having been received by the Bureau after 17 May 1996 and until they are changed by a future competent world radiocommunication conference. Administrations submitting Appendix 4 information for coordination before this date are encouraged to utilize these techniques to the extent practicable. (WRC-2000)
5.543	The band 29.95–30 GHz may be used for space-to-space links in the Earth exploration-satellite service for telemetry, tracking, and control purposes, on a secondary basis.
5.543A	In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the frequency band 31-31.3 GHz may also be used by systems using high altitude platform stations (HAPS) in the ground-to-HAPS direction. The use of the frequency band 31-31.3 GHz by systems using HAPS is limited to the territory of the countries listed above and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems, systems in the mobile service and systems operated under No. 5.545. Furthermore, the development of these services shall not be constrained by HAPS. Systems using HAPS in the frequency band 31-31.3 GHz shall not cause harmful interference to the radio astronomy service having a primary allocation in the frequency band 31.3-31.8 GHz, taking into account the protection criterion as given in the most recent version of Recommendation ITU R RA.769. In order to ensure the protection of satellite passive services, the level of unwanted power density into a HAPS ground station antenna in the frequency band 31.3-31.8 GHz shall be limited to -106 dB(W/MHz) under clear-sky conditions, and may be increased up to -100 dB(W/MHz) under rainy conditions to mitigate fading due to rain, provided the effective impact on the passive satellite does not exceed the impact under clear-sky conditions. See Resolution 145 (Rev.WRC 12). (WRC 15)
5.544	In the band 31–31.3 GHz the power flux-density limits specified in Article 21, Table 21–4 shall apply to the space research service.
5.546	Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, the United Kingdom, South Africa, Tajikistan, Turkmenistan and Turkey, the allocation of the band 31.5–31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33). (WRC-12)
5.547	The bands 31.8–33.4 GHz, 37–40 GHz, 40.5–43.5 GHz, 51.4–52.6 GHz, 55.78–59 GHz and 64 66 GHz are available for high-density applications in the fixed service (see Resolution 75 (WRC 2000)). Administrations should take this into account when considering regulatory provisions in relation to these bands. Because of the potential deployment of high-density applications in the fixed-satellite service in the bands 39.5–40 GHz and 40.5–42 GHz (see No. 5.516B), administrations

	should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-07)
5.547A	Administrations should take practical measures to minimize the potential
	interference between stations in the fixed service and airborne stations in the
	radionavigation service in the 31.8–33.4 GHz band, taking into account the
	operational needs of the airborne radar systems. (WRC-2000)
5.548	In designing systems for the inter-satellite service in the band 32.3–33 GHz, for the
	radionavigation service in the band 32-33 GHz, and for the space research service
	(deep space) in the band 31.8–32.3 GHz, administrations shall take all necessary
	measures to prevent harmful interference between these services, bearing in mind
	the safety aspects of the radionavigation service (see Recommendation 707).
	(WRC-03)
5.549A	In the band 35.5–36.0 GHz, the mean power flux-density at the Earth's surface,
	generated by any spaceborne sensor in the Earth exploration-satellite service
	(active) or space research service (active), for any angle greater than 0.8° from the
	beam centre shall not exceed -73.3 dB(W/m2) in this band. (WRC-03)
5.550	Different category of service: in Armenia, Azerbaijan, Belarus, the Russian
	Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of
	the band 34.7–35.2 GHz to the space research service is on a primary basis (see No. 5.33). (WRC-12)
5.550A	For sharing of the band 36–37 GHz between the Earth exploration-satellite
3.330A	(passive) service and the fixed and mobile services, Resolution 752 (WRC-07)
	shall apply. (WRC-07)
5.551H	The equivalent power flux-density (epfd) produced in the frequency band 42.5–
0.00111	43.5 GHz by all space stations in any non-geostationary-satellite system in the
	fixed-satellite service (space-to-Earth), or in the broadcasting-satellite service
	operating in the frequency band 42–42.5 GHz, shall not exceed the following
	values at the site of any radio astronomy station for more than 2% of the time:
	-230 dB(W/m2) in 1 GHz and −246 dB(W/m2) in any 500 kHz of the frequency
	band 42.5–43.5 GHz at the site of any radio astronomy station registered as a
	single-dish telescope; and -209 dB(W/m2) in any 500 kHz of the frequency band
	42.5–43.5 GHz at the site of any radio astronomy station registered as a very long
	baseline interferometry station.
	These epfd values shall be evaluated using the methodology given in
	Recommendation ITU R S.1586 1 and the reference antenna pattern and the maximum gain of an antenna in the radio astronomy service given in
	Recommendation ITU R RA.1631 0 and shall apply over the whole sky and for
	elevation angles higher than the minimum operating angle θ min of the
	radiotelescope (for which a default value of 5° should be adopted in the absence of
	notified information).
	These values shall apply at any radio astronomy station that either:
	– was in operation prior to 5 July 2003 and has been notified to the Bureau before
	4 January 2004; or
	– was notified before the date of receipt of the complete Appendix 4 information
	for coordination or notification, as appropriate, for the space station to which the
	limits apply.
	Other radio astronomy stations notified after these dates may seek an agreement
	with administrations that have authorized the space stations. In Region 2,
	Resolution 743 (WRC 03) shall apply. The limits in this footnote may be exceeded
	at the site of a radio astronomy station of any country whose administration so
	agreed. (WRC 15)

5.551I	The power flux-density in the band 42.5–43.5 GHz produced by any geostationary
	space station in the fixed-satellite service (space-to-Earth), or the broadcasting-
	satellite service (space-to-Earth) operating in the 42–42.5 GHz band, shall not
	exceed the following values at the site of any radio astronomy station: –137
	dB(W/m2) in 1 GHz and -153 $dB(W/m2)$ in any 500 kHz of the 42.5–43.5 GHz
	band at the site of any radio astronomy station registered as a single-dish telescope;
	and -116 dB(W/m2) in any 500 kHz of the 42.5-43.5 GHz band at the site of any
	radio astronomy station registered as a very long baseline interferometry station.
	These values shall apply at the site of any radio astronomy station that either: –was
	in operation prior to 5 July 2003 and has been notified to the Radiocommunication
	Bureau before 4 January 2004; or –was notified before the date of receipt of the
	complete Appendix 4 information for coordination or notification, as appropriate,
	for the space station to which the limits apply. Other radio astronomy stations
	notified after these dates may seek an agreement with administrations that have
	authorized the space stations. In Region 2, Resolution 743 (WRC-03) shall apply.
	The limits in this footnote may be exceeded at the site of a radio astronomy station
	of any country whose administration so agreed. (WRC-03)
5.552	The allocation of the spectrum for the fixed-satellite service in the bands 42.5–43.5
	GHz and 47.2–50.2 GHz for Earth-to-space transmission is greater than that in the
	band 37.5–39.5 GHz for space-to-Earth transmission in order to accommodate
	feeder links to broadcasting satellites. Administrations are urged to take all
	practicable steps to reserve the band 47.2–49.2 GHz for feeder links for the
	broadcasting-satellite service operating in the band 40.5–42.5 GHz.
5.552A	The allocation to the fixed service in the bands 47.2–47.5 GHz and 47.9–48.2 GHz
	is designated for use by high altitude platform stations. The use of the bands 47.2–
	47.5 GHz and 47.9–48.2 GHz is subject to the provisions of Resolution 122
	(Rev.WRC-07). (WRC-07)
5.553	In the bands 43.5–47 GHz and 66–71 GHz, stations in the land mobile service may
	be operated subject to not causing harmful interference to the space
	radiocommunication services to which these bands are allocated (see No. 5.43).
	(WRC-2000)
5.554	In the bands 43.5–47 GHz, 66–71 GHz, 95–100 GHz, 123–130 GHz, 191.8–200
	GHz and 252–265 GHz, satellite links connecting land stations at specified fixed
	points are also authorized when used in conjunction with the mobile-satellite
	service or the radionavigation-satellite service. (WRC 2000)
5.554A	The use of the bands 47.5–47.9 GHz, 48.2–48.54 GHz and 49.44–50.2 GHz by the
	fixed-satellite service (space-to-Earth) is limited to geostationary satellites. (WRC-
	03)
5.555	Additional allocation: the band 48.94–49.04 GHz is also allocated to the radio
	astronomy service on a primary basis. (WRC-2000)
5.555B	The power flux-density in the band 48.94—49.04 GHz produced by any
	geostationary space station in the fixed-satellite service (space-to-Earth) operating
	in the bands 48.2–48.54 GHz and 49.44–50.2 GHz shall not exceed –151.8
	dB(W/m2) in any 500 kHz band at the site of any radio astronomy station. (WRC-
	03)
5.556	In the bands 51.4–54.25 GHz, 58.2–59 GHz and 64–65 GHz, radio astronomy
	observations may be carried out under national arrangements. (WRC-2000)
5.556A	"Use of the bands 54.25–56.9 GHz, 57–58.2 GHz and 59–59.3 GHz by the inter-
	satellite service is limited to satellites in the geostationary-satellite orbit. The
	single-entry power flux-density at all altitudes from 0 km to 1 000 km above the
	Earth's surface produced by a station in the inter-satellite service, for all

	conditions and for all methods of modulation, shall not exceed –147 dB(W/m2 • 100 MHz) for all angles of arrival. (WRC-97)
5.557A	In the band 55.78–56.26 GHz, in order to protect stations in the Earth exploration-
3.337A	satellite service (passive), the maximum power density delivered by a transmitter
	to the antenna of a fixed service station is limited to -26 dB(W/MHz). (WRC-
	2000)
5.558	In the bands 55.78–58.2 GHz, 59–64 GHz, 66–71 GHz, 122.25–123 GHz, 130–
	134 GHz, 167–174.8 GHz and 191.8–200 GHz, stations in the aeronautical mobile
	service may be operated subject to not causing harmful interference to the inter-
	satellite service (see No. 5.43). (WRC-2000)
5.558A	Use of the band 56.9–57 GHz by inter-satellite systems is limited to links between
	satellites in geostationary-satellite orbit and to transmissions from non-
	geostationary satellites in high-Earth orbit to those in low-Earth orbit. For links
	between satellites in the geostationary-satellite orbit, the single entry power flux-
	density at all altitudes from 0 km to 1 000 km above the Earth's surface, for all
	conditions and for all methods of modulation, shall not exceed –147 dB(W/m2 • 100 MHz) for all angles of arrival. (WRC-97)
5.559	In the band 59–64 GHz, airborne radars in the radiolocation service may be
0.007	operated subject to not causing harmful interference to the inter-satellite service
	(see No. 5.43). (WRC-2000)
5.560	In the band 78–79 GHz radars located on space stations may be operated on a
	primary basis in the earth exploration-satellite service and in the space research
	service.
5.561	In the band 74–76 GHz, stations in the fixed, mobile and broadcasting services
	shall not cause harmful interference to stations of the fixed-satellite service or
	stations of the broadcasting-satellite service operating in accordance with the
	decisions of the appropriate frequency assignment planning conference for the
5.561A	broadcasting-satellite service. (WRC-2000) The 81–81.5 GHz band is also allocated to the amateur and amateur-satellite
5.501A	services on a secondary basis. (WRC-2000)
5.562	The use of the band 94–94.1 GHz by the Earth exploration-satellite (active) and
3.302	space research (active) services is limited to spaceborne cloud radars. (WRC-97)
5.562A	In the bands 94–94.1 GHz and 130–134 GHz, transmissions from space stations of
	the Earth exploration-satellite service (active) that are directed into the main beam
	of a radio astronomy antenna have the potential to damage some radio astronomy
	receivers. Space agencies operating the transmitters and the radio astronomy
	stations concerned should mutually plan their operations so as to avoid such
	occurrences to the maximum extent possible. (WRC-2000)
5.562B	In the bands 105–109.5 GHz, 111.8–114.25 GHz, 155.5–158.5 GHz and 217–226
	GHz, the use of this allocation is limited to space-based radio astronomy only.
<i>E E () C</i>	(WRC-2000)
5.562C	Use of the band 116–122.25 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density
	produced by a station in the inter-satellite service, for all conditions and for all
	methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's
	surface and in the vicinity of all geostationary orbital positions occupied by
	passive sensors, shall not exceed –148 dB(W/(m2 · MHz)) for all angles of arrival.
	(WRC-2000)
5.562E	The allocation to the Earth exploration-satellite service (active) is limited to the
	band 133.5–134 GHz. (WRC-2000)

5.562F	In the band 155.5-158.5 GHz, the allocation to the Earth exploration-satellite
0.0021	(passive) and space research (passive) services shall terminate on 1 January 2018.
	(WRC-2000)
5.562G	The date of entry into force of the allocation to the fixed and mobile services in the
3.3020	band 155.5–158.5 GHz shall be 1 January 2018. (WRC-2000)
5.562H	Use of the bands 174.8–182 GHz and 185–190 GHz by the inter-satellite service is
3.30211	limited to satellites in the geostationary-satellite orbit. The single-entry power flux-
	density produced by a station in the inter-satellite service, for all conditions and for
	all methods of modulation, at all altitudes from 0 km to 1000 km above the Earth's
	surface and in the vicinity of all geostationary orbital positions occupied by
	passive sensors, shall not exceed –144 dB(W/(m2 · MHz)) for all angles of arrival.
	(WRC-2000)
5.563A	In the bands 200-209 GHz, 235–238 GHz, 250–252 GHz and 265–275 GHz,
3.303A	ground-based passive atmospheric sensing is carried out to monitor atmospheric
	constituents. (WRC-2000)
5.563B	· · · · · · · · · · · · · · · · · · ·
3.303D	The band 237.9–238 GHz is also allocated to the Earth exploration-satellite service (active) and the space research service (active) for spaceborne cloud radars only.
	(WRC-2000)
5.565	"The following frequency bands in the range 275–1000 GHz are identified for use
3.303	by administrations for passive service applications:
	- radio astronomy service: 275–323 GHz, 327–371 GHz, 388–424 GHz, 426–442
	GHz, 453–510 GHz, 623–711 GHz, 795–909 GHz and 926–945 GHz;
	- Earth exploration-satellite service (passive) and space research service (passive):
	275–286 GHz, 296–306 GHz, 313–356 GHz, 361–365 GHz, 369–392 GHz, 397–
	399 GHz, 409–411 GHz, 416–434 GHz, 439–467 GHz, 477–502 GHz, 523–527
	GHz, 538–581 GHz, 611–630 GHz, 634–654 GHz, 657–692 GHz, 713–718 GHz,
	729–733 GHz, 750–754 GHz, 771–776 GHz, 823–846 GHz, 850–854 GHz, 857–
	862 GHz, 866–882 GHz, 905–928 GHz, 951–956 GHz, 968–973 GHz and 985–
	990 GHz.
	The use of the range 275–1000 GHz by the passive services does not preclude use
	of this range by active services. Administrations wishing to make frequencies in
	the 275–1000 GHz range available for active service applications are urged to take
	all practicable steps to protect these passive services from harmful interference
	until the date when the Table of Frequency Allocations is established in the above-
	mentioned 275–1000 GHz frequency range. All frequencies in the range 1000–
	3000 GHz may be used by both active and passive services. (WRC-12)
5.133B	Stations in the amateur service using the frequency band 5351.5–5366.5 kHz shall
	not exceed a maximum radiated power of 15 W (e.i.r.p.). However, in Region 2 in
	Mexico, stations in the amateur service using the frequency band 5351.5–5366.5
	kHz shall not exceed a maximum radiated power of 20 W (e.i.r.p.). In the
	following Region 2 countries: Antigua and Barbuda, Argentina, Bahamas,
	Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican
	Republic, Dominica, El Salvador, Ecuador, Grenada, Guatemala, Guyana, Haiti,
	Honduras, Jamaica, Nicaragua, Panama, Paraguay, Peru, Saint Lucia, Saint Kitts
	and Nevis, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago,
	Uruguay, Venezuela, as well as the overseas territories of the Netherlands in
	Region 2, stations in the amateur service using the frequency band 5351.5–5366.5
	kHz shall not exceed a maximum radiated power of 25 W (e.i.r.p.). (WRC-15)
5.228AA	The use of the frequency bands 161.9375–161.9625 MHz and 161.9875–162.0125
	MHz by the maritime mobile-satellite (Earth-to-space) service is limited to the
	systems which operate in accordance with Appendix 18. (WRC-15)

5.265	In the frequency band 403–410 MHz, Resolution 205 (Rev.WRC 15) applies. (WRC 15)
5.328AA	The frequency band 1087.7–1092.3 MHz is also allocated to the aeronautical mobile-satellite (R) service (Earth to space) on a primary basis, limited to the space station reception of Automatic Dependent Surveillance-Broadcast (ADS B) emissions from aircraft transmitters that operate in accordance with recognized international aeronautical standards. Stations operating in the aeronautical mobile-satellite (R) service shall not claim protection from stations operating in the aeronautical radionavigation service. Resolution 425 (WRC 15) shall apply. (WRC 15)
5.341A	In Region 1, the frequency bands 1427–1452 MHz and 1492–1518 MHz are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC 15). This identification does not preclude the use of these frequency bands by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. 9.21 with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. 5.342. (WRC 15)
5.436	Use of the frequency band 4200–4400 MHz by stations in the aeronautical mobile (R) service is reserved exclusively for wireless avionics intra-communication systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 424 (WRC 15). (WRC 15)
5.437	Passive sensing in the Earth exploration-satellite and space research services may be authorized in the frequency band 4200–4400 MHz on a secondary basis. (WRC 15)
5.460A	The use of the frequency band 7190–7250 MHz (Earth-to-space) by the Earth exploration-satellite service shall be limited to tracking, telemetry and command for the operation of spacecraft. Space stations operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7190–7250 MHz shall not claim protection from existing and future stations in the fixed and mobile services, and No. 5.43A does not apply. No. 9.17 applies. Additionally, to ensure protection of the existing and future deployment of fixed and mobile services, the location of earth stations supporting spacecraft in the Earth exploration-satellite service in non-geostationary orbits or geostationary orbit shall maintain a separation distance of at least 10 km and 50 km, respectively, from the respective border(s) of neighbouring countries, unless a shorter distance is otherwise agreed between the corresponding administrations. (WRC 15)
5.460B	Space stations on the geostationary orbit operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7190–7235 MHz shall not claim protection from existing and future stations of the space research service, and No. 5.43A does not apply. (WRC 15)
5.461AA	The use of the frequency band 7375–7750 MHz by the maritime mobile-satellite service is limited to geostationary-satellite networks. (WRC 15)
5.461AB	In the frequency band 7375–7750 MHz, earth stations in the maritime mobile-satellite service shall not claim protection from, nor constrain the use and development of, stations in the fixed and mobile, except aeronautical mobile, services. No. 5.43A does not apply. (WRC 15)
5.474A	The use of the frequency bands 9200–9300 MHz and 9900–10400 MHz by the Earth exploration-satellite service (active) is limited to systems requiring necessary bandwidth greater than 600 MHz that cannot be fully accommodated within the

	frequency band 9300–9900 MHz. Such use is subject to agreement to be obtained
	under No. 9.21 from Algeria, Saudi Arabia, Bahrain, Egypt, Indonesia, Iran
	(Islamic Republic of), Lebanon and Tunisia. An administration that has not replied
	under No. 9.52 is considered as not having agreed to the coordination request. In
	this case, the notifying administration of the satellite system operating in the Earth
	exploration-satellite service (active) may request the assistance of the Bureau
	under Sub-Section IID of Article 9. (WRC 15)
5.474B	Stations operating in the Earth exploration-satellite (active) service shall comply
3.4740	with Recommendation ITU R RS.2066 0. (WRC 15)
5.474C	Stations operating in the Earth exploration-satellite (active) service shall comply
3.474C	with Recommendation ITU R RS.2065 0. (WRC 15)
5 47 4D	
5.474D	Stations in the Earth exploration-satellite service (active) shall not cause harmful
	interference to, or claim protection from, stations of the maritime radionavigation
	and radiolocation services in the frequency band 9200–9300 MHz, the
	radionavigation and radiolocation services in the frequency band 9900–10000
	MHz and the radiolocation service in the frequency band 10.0–10.4 GHz. (WRC
	15)
5.484B	Resolution 155 (WRC 15) shall apply. (WRC 15)
5.499A	The use of the frequency band 13.4–13.65 GHz by the fixed-satellite service
	(space-to-Earth) is limited to geostationary-satellite systems and is subject to
	agreement obtained under No. 9.21 with respect to satellite systems operating in
	the space research service (space-to-space) to relay data from space stations in the
	geostationary-satellite orbit to associated space stations in non-geostationary
	satellite orbits for which advance publication information has been received by the
	Bureau by 27 November 2015. (WRC 15)
5.499B	Administrations shall not preclude the deployment and operation of transmitting
001332	earth stations in the standard frequency and time signal-satellite service (Earth-to-
	space) allocated on a secondary basis in the frequency band 13.4–13.65 GHz due
	to the primary allocation to FSS (space-to-Earth). (WRC 15)
	The allocation of the frequency band 13.4–13.65 GHz to the space research service
5 400C	
5.499C	1 -
5.499C	on a primary basis is limited to: – satellite systems operating in the space research
5.499C	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-
5.499C	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for
5.499C	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27
5.499C	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the
5.499C	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the
5.499C	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the
	on a primary basis is limited to: — satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, — active spaceborne sensors, — satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15)
5.499C 5.499D	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research
	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall
	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research
	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall
	on a primary basis is limited to: — satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, — active spaceborne sensors, — satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed,
5.499D	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4–13.65 GHz, geostationary-satellite networks in the
5.499D	on a primary basis is limited to: — satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, — active spaceborne sensors, — satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4—13.65 GHz, satellite systems in the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4—13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space
5.499D	on a primary basis is limited to: — satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, — active spaceborne sensors, — satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4–13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance
5.499D	on a primary basis is limited to: — satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, — active spaceborne sensors, — satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4—13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4—13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and No. 5.43A does not apply. The provisions of No. 22.2
5.499D	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4–13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and No. 5.43A does not apply. The provisions of No. 22.2 do not apply to the Earth exploration-satellite service (active) with respect to the
5.499D 5.499E	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4–13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and No. 5.43A does not apply. The provisions of No. 22.2 do not apply to the Earth exploration-satellite service (active) with respect to the fixed-satellite service (space-to-Earth) in this frequency band. (WRC 15)
5.499D	on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15) In the frequency band 13.4–13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15) In the frequency band 13.4–13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and No. 5.43A does not apply. The provisions of No. 22.2 do not apply to the Earth exploration-satellite service (active) with respect to the

	by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service is limited to geostationary-satellites. (WRC 15)
5.509C	For the use of the frequency bands 14.5–14.75 GHz in countries listed in Resolution 163 (WRC 15) and 14.5–14.8 GHz in countries listed in Resolution 164 (WRC 15) by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service, the fixed-satellite service earth stations shall have a minimum antenna diameter of 6 m and a maximum power spectral density of –44.5 dBW/Hz at the input of the antenna. The earth stations shall be notified at known locations on land. (WRC 15)
5.509D	Before an administration brings into use an earth station in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service in the frequency bands 14.5–14.75 GHz (in countries listed in Resolution 163 (WRC 15)) and 14.5–14.8 GHz (in countries listed in Resolution 164 (WRC 15)), it shall ensure that the power flux-density produced by this earth station does not exceed –151.5 dB(W/(m2 · 4 kHz)) produced at all altitudes from 0 m to 19 000 m above sea level at 22 km seaward from all coasts, defined as the low-water mark, as officially recognized by each coastal State. (WRC 15)
5.509E	In the frequency bands 14.50–14.75 GHz in countries listed in Resolution 163 (WRC 15) and 14.50–14.8 GHz in countries listed in Resolution 164 (WRC 15), the location of earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall maintain a separation distance of at least 500 km from the border(s) of other countries unless shorter distances are explicitly agreed by those administrations. No. 9.17 does not apply. When applying this provision, administrations should consider the relevant parts of these Regulations and the latest relevant ITU R Recommendations. (WRC 15)
5.509F	In the frequency bands 14.50–14.75 GHz in countries listed in Resolution 163 (WRC 15) and 14.50–14.8 GHz in countries listed in Resolution 164 (WRC 15), earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall not constrain the future deployment of the fixed and mobile services. (WRC 15)
5.509G	The frequency band 14.5–14.8 GHz is also allocated to the space research service on a primary basis. However, such use is limited to the satellite systems operating in the space research service (Earth-to-space) to relay data to space stations in the geostationary-satellite orbit from associated earth stations. Stations in the space research service shall not cause harmful interference to, or claim protection from, stations in the fixed and mobile services and in the fixed-satellite service limited to feeder links for the broadcasting-satellite service and associated space operations functions using the guardbands under Appendix 30A and feeder links for the broadcasting-satellite service in Region 2. Other uses of this frequency band by the space research service are on a secondary basis. (WRC 15)
5.527A	The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (WRC 15). (WRC 15)
5.559B	The use of the frequency band 77.5–78 GHz by the radiolocation service shall be limited to short-range radar for ground-based applications, including automotive radars. The technical characteristics of these radars are provided in the most recent version of Recommendation ITU R M.2057. The provisions of No. 4.10 do not apply. (WRC 15)