Ettevõtlus- ja infotehnoloogiaministri 26. oktoobri 2017. a määrus nr 54 "Eesti raadiosagedusplaan" Lisa 2 (muudetud sõnastuses)

#### EESTI RAADIOSAGEDUSPLAANIS KASUTATUD TÄHISTE JA LÜHENDITE SELGITUSED

#### I. Eesti Raadiosagedusplaanis kasutatud tähised ja lühendid

Lühend	Tähendus
ADS-B	üldsaatega automaatne sõltuv seire
	Automatic Dependent Surveillance-Broadcast
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
ALD	kuulmise abivahendid
	Assistive listening device
AM	amplituudmodulatsioon
	Amplitude modulation
AMRD	autonoomsed meresideseadmed
	Autonomous Maritime Radio Devices
App.	raadioeeskirjade lisa
	appendix
Art.	raadioeeskirjade artikkel
	article
AVI	raudteeveeremi automaatne identifitseerimissüsteem
	Automatic Vehicle Identification for Railways
BWA	lairibajuurdepääsu raadiovõrk
	Broadband Wireless Access
CEPT	Euroopa Postside- ja Telekommunikatsiooniadministratsioonide
	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/ERC/REC	CEPTi Elektroonilise Side Komitee soovitus
CEPT/ERC/ T/R	
CEPT/ECC/DEC	CEPTi Elektroonilise Side Komitee otsus
CEPT/ERC/DEC	
DECT	raadiotelefonisüsteem
	Digital Enhanced Cordless Telecommunications

DGPS	diferentsiaalne globaalne positsioneerimissüsteem
	Differential Global Positioning System
DME	Kaugusmõõdusüsteem
	Distance Measuring Equipment
DMO	otseühenduskanal
	Direct Mode Operation
DPMR 446	ühiskasutusega sagedusalas 446 MHz töötav digitaalne
	raadiosidesüsteem
	Digital Professional Mobile Radio 446
Du	dupleksraadiosageduskanal
DVB-T	maapealne digitaaltelevisioon
D V D I	Digital Video Broadcasting - Terrestrial
EN	Euroopa standard
	European standard
EPIRB	avariiraadiopoid
LIIKD	Emergency Position-Indicating Radiobeacon
ESIM/ESOMP	satelliitsideterminal liikuval platvormil
ESIMI/ESUMIF	Earth Stations In-Motion
ECV	Earth Stations on Mobile Platforms
ESV	veesõiduki pardale paigaldatav kosmoseside maajaam
ETGI	Earth Station on board Vessels
ETSI	Euroopa Telekommunikatsioonistandardite Instituut
EUDOGAE	European Telecommunications Standards Institute
EUROCAE	Euroopa Tsiviillennunduse seadmete Organisatsioon
EDD	European Organization for Civil Aviation Equipment
FDD	Sagedustihendusdupleks edastus
773 f	Frequency Division Duplex
FM	sagedusmodulatsioon
777766	frequency modulation
FRMCS	tulevane raudtee mobiilsidesüsteem
	Future Railway Mobile Communication System
GBAS	maapealne tugisüsteem
	Ground Based Augmentation System
GBSAR	ehitise ja pinnase struktuuri sondeerimise seade
~~~~	Ground Based Synthetic Aperture Radar
GMDSS	ülemaailmne merehäda ja -ohutuse süsteem
	Global Maritime Distress and Safety System
GPR	pinnase sondeerimise radar
	Ground-Probing Radar
GSO	geostatsionaarne orbiit
	Geostationary orbit
HDFS	suuremahuline paikse side rakendus
	High-density fixed service
HDFSS	suuremahuline paikse kosmoseside rakendus
	High-density fixed satellite service
HDTV	kõrglahutusega televisioon
	High-Definition Television
HF	kõrgsagedus 3–30 MHz
	high frequency
Hz	herts, võnkesageduse 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
	International Telecommunication Union
ITU-R	Rahvusvahelise Telekommunikatsiooni Liidu raadiosidesektori soovitus
	International Telecommunication Union Radiocommunication Sector
JTIDS/MIDS	taktikalise ja mitmefunktsionaalse informatsiooni edastamise
	süsteem
	Joint Tactical Information Distribution System
	Multifunctional Information Distribution System
MCA	mobiilsideteenused õhusõiduki pardal
	Mobile Communications on board Aircraft
MCV	mobiilsideteenused veesõiduki pardal
	Mobile Communication Services on board Vessels
MFCN	maapealne elektroonilise side teenuse osutamise süsteem
	Mobile/Fixed Communications Networks
MLS	mikrolainemaandumissüsteem,
	Microwave Landing System
MMSI	liikuva mereside raadiosaatja tunnuskood
	maritime mobile Service identity
NAVDAT	meresõiduohutuse süsteem (navigatsiooniandmed)
	navigational data
NAVTEX	meresõiduohutuse süsteem (navigatsioonitelefaks)
	navigational telex
NGSO	mitte-geostatsionaarne orbiit
	non-geostationary orbit
NJFA	Põhja-Atlandi Lepingu Organisatsiooni tsiviil- ja
	militaarsagedusspektri kokkulepe
	NATO (North Atlantic Treaty
	Organisation) Joint Civil and Military Frequency Agreement
	NJFA kokkuleppes on määratud riigikaitseks vajalikud
	sagedusalad, mida rakendatakse Eesti raadiosagedusplaanis
	maksimaalsel võimalikul määral.
	Eesti raadiosagedusplaani lisas 1 on riigikaitse otstarbel
	Kaitseväe kasutuses olevate sagedusalade juures märge "Riikliku
	kasutuse tüüp 1" või "Riikliku kasutuse tüüp 2"
OR	lennundusside väljaspool lennutrasse
	off-route
PMR446	ühiskasutusega sagedusalas 446 MHz töötav raadiosidesüsteem
	Professional Mobile Radio 446
PMR/PAMR	ametkondlik liikuv raadiosidesüsteem /
	piiratud avaliku juurdepääsuga liikuv raadiosidesüsteem
	Professional Mobile Radio / Public Access Mobile Radio

PMSE	programmitootmise ja erisündmuste edastamine
	Programme-making and special events
R	lennundusside lennutrassidel
	route
Rec.	soovitus
	recommendation
Res.	resolutsioon
	resolution
RFID	raadiosagedustuvastus
	radio-frequency identification
RMR	raudtee mobiilne raadioside
	Railway Mobile Radio
RR	raadioeeskirjad
	Radio Regulations
SART	radarivastajasüsteem
	Search and Rescue Transponders
Si	simpleksraadiosageduskanal
SNG	kosmosesidesüsteem uudiste ajutiseks edastamiseks
	Satellite News Gathering
SSB	ühe külgribaga modulatsioon
	Single Side Band
T-DAB	maapealne digitaalraadioringhääling
	Terrestrial Digital Audio Broadcasting
TDD	aegtihendusdupleks
	Time Division Duplex
TETRA	operatiivteenistuste raadiosidevõrk
	Terrestrial Trunked Radio
ISM (TTM)	eriotstarbelised raadiosagedusseadmed – tööstuses, teaduses, meditsiinis,
	olmes või muus valdkonnas kasutamiseks ettenähtud seadmed, mille töö
	põhineb elektromagnetlainete kasutamisel muul eesmärgil kui raadioside
TT 1	pidamine
TV	televisioon mehitamata õhusõidukite süsteemid
UAS	
VDES	Unmanned Aircraft Systems  VHF-andmevahetussüsteem
VDES	VHF Data Exchange system
VHF	ülikõrgsagedus 30–300 MHz
VIII	
VOR	Very high frequency  VHF-ringsuunaline raadiomajakas
VOR	VHF omnidirectional radio range
VSAT	väikesemõõtmelised satelliitsidesüsteemide terminalid
V 10/1 1	Very Small Aperture Terminal
	, o. , NIIVOVV IIP OI VVVI O I OI IIVVIVVV
WPR	
WPR	seina sondeerimise radar
WPR WRC	

#### II. Määrused

Konkursi kord ESS-i	avaliku konkursi korraldamise kord
§ 9 <sup>1</sup> lg 1 alusel	
Raadioliides ESS-i § 20	raadiosageduste kasutamise tingimused ja tehnilised nõuded
lg 1 alusel	sagedusloast vabastatud raadioseadmetele
Kord ja nõuded ESS-i	rahuajal kaitsejõudude ainukasutuseks määratud raadiosageduste
§ 21 lg 1 alusel	kasutamise kord ja tehnilised nõuded
Kord ESS-i § 24 alusel	raadioamatöörile kvalifikatsiooni andmise ja raadiosageduste
	amatöörraadioside otstarbel kasutamise kord
Multipleksimisteenusele	nõuded vaba juurdepääsuga ja tingimusjuurdepääsuga
esitatavad nõuded	teleprogrammide edastamisele ning taasedastamisele
ESS-i § 90 <sup>1</sup> lg 3 alusel	
Raadioside liides ESS-i	tehnilised nõuded sagedusloa alusel kasutatavatele
§ 120 <sup>2</sup> lg 2 alusel	raadioseadmetele

#### III. CEPTi Elektroonilise Side Komitee soovitused

CEPT/ERC/REC/(00)04	Harmonised frequencies and free circulation and use for Meteor
	Scatter Applications
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/(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/(05)07	Radio frequency channel arrangements for Fixed Service systems
,	operating in the bands 71–76 GHz and 81–86 GHz
CEPT/ECC/REC/(06)04	Use of the band 5725–5875 MHz for Broadband Fixed Wireless
,	Access (BFWA)
CEPT/ECC/REC/(10)02	A framework for authorisation regime of Global Navigation
, ,	Satellite System (GNSS) repeaters
CEPT/ECC/REC/(11)04	Cross-border Coordination for Mobile/Fixed Communications
	Networks (MFCN) in the frequency band 790-862 MHz
CEPT/ECC/REC/(11)08	Framework for authorisation regime of indoor global navigation
	satellite system (GNSS) pseudolites in the band 1559–1610 MHz
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/(15)01	Cross-border coordination for Mobile/Fixed Communications
	Networks (MFCN) in the frequency bands: 694–790 MHz,
	1427–1518 MHz and 3400–3800 MHz
CEPT/ECC/REC/(18)01	Radio frequency channel/block arrangements for Fixed Service
	systems operating in the bands 130–134 GHz, 141–148.5 GHz,
	151.5–164 GHz and 167–174.8 GHz
CEPT/ECC/REC/(18)02	Radio frequency channel/block arrangements for Fixed Service
	systems operating in the bands 92–94 GHz, 94.1–100 GHz,
	102–109.5 GHz and 111.8–114.25 GHz
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

GERMAN CARROLLS	
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 12-06	Preferred channel arrangements for Fixed Service systems
CEI I/EIG/IEC IZ 00	operating in the frequency band 10.7–11.7 GHz
CEPT/ERC/REC 12-11	Radio frequency channel arrangements for Fixed Service systems
CEI I/ERC/REC 12-11	
CEPT/EDC/DEC 12 12	operating in the bands 48.5 to 50.2 GHz / 50.9 to 52.6 GHz
CEPT/ERC/REC 12-12	Radio frequency channel, arrangement for Fixed Service Systems
	operating in the band 55.78 to 57.0 GHz
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/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 25-10	Frequency Ranges for the Use of Terrestrial Audio and
	VideoProgramme Making and Special Events (PMSE)
	applications
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
CEI 1/ERC 1/R 13-01	1-3 GHz
CEPT/ERC T/R 13-02	
CEF1/ERC 1/R 13-02	Preferred channel arrangements for fixed services in the range
CERTIFIC CETT AS AS	22.0–29.5 GHz
CEPT/ERC T/R 25-08	Planning criteria and coordination of frequencies for land mobile
	systems in the range 29.7–470 MHz

## IV. CEPTi Elektroonilise Side Komitee otsused

CEPT/ERC/DEC/(94)03	Frequency band to be designated for the coordinated introduction
	of the Digital European Cordless Telecommunications system
CEPT/ERC/DEC/(98)22	Exemption from individual licensing and free circulation and use
	of DECT equipment
CEPT/ERC/DEC/(99)06	On the harmonised introduction of satellite personal
	communication systems operating in the bands below 1 GHz (S-
	PCS<1GHz)
CEPT/ERC/DEC/(00)02	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/(00)07	Shared use of the band 17.7-19.7 GHz by the fixed service and
	earth stations of the fixed-satellite service (space-to-Earth)
CEPT/ERC/DEC/(00)08	Use of the band 10.7 - 12.5 GHz by the fixed service and Earth
	stations of the broadcasting-satellite and fixed-satellite Service
	(space-to-Earth)
CEPT/ERC/DEC/(01)11	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

CEDE/EDC/DEC/(01)10	
CEPT/ERC/DEC/(01)12	Harmonised frequencies, technical characteristics and exemption
	from individual licensing of short range devices used for Model
	control operating on the frequencies 40.665, 40.675, 40.685 and
	40.695 MHz
CEPT/ERC/DEC/(01)19	Harmonised frequency bands to be designated for the Direct
	Mode Operation (DMO) of the Digital Land Mobile Systems for
	the Emergency Services
CEPT/ECC/DEC/(03)04	Exemption from Individual Licensing of Very Small Aperture
,	Terminals (VSAT) operating in the frequency bands
	14.25-14.50 GHz Earth-to-space and 10.70-11.70 GHz space-to-
	Earth
CEPT/ECC/DEC/(04)03	Frequency band 77-81 GHz to be designated for the use of
	Automotive Short Range Radars
CEPT/ECC/DEC/(04)08	Harmonised use of the 5 GHz frequency bands for the
CEI I/ECC/DEC/(04)00	implementation of Wireless Access Systems including Radio Local
	, ,
CEDT/ECC/DEC/(0A)00	Area Networks (WAS/RLANs)
CEPT/ECC/DEC/(04)09	Designation of the bands 1518 - 1525 MHz and 1670 - 1675 MHz
CEPTER COMPTON AND	for systems in the Mobile-Satellite Service
CEPT/ECC/DEC/(04)10	Frequency bands to be designated for the temporary introduction
	of Automotive Short Range Radars (SRR)
CEPT/ECC/DEC/(05)01	Use of the band 27.5-29.5 GHz by the Fixed Service and
	uncoordinated Earth stations of the Fixed-Satellite Service (Earth-
	to-space)
CEPT/ECC/DEC/(05)02	Harmonised frequency plan for the use of the band 169.4-
	169.8125 MHz
CEPT/ECC/DEC/(05)05	Harmonised utilization of spectrum for Mobile/Fixed
, ,	Communications Networks (MFCN) operating within the band
	2500-2690 MHz
CEPT/ECC/DEC/(05)08	Availability of frequency bands for high density applications in the
	Fixed-Satellite Service (space-to-Earth and Earth-to-space)
CEPT/ECC/DEC/(05)09	Free Circulation and Use of Earth Stations on Board Vessels
	operating in Fixed Satellite Service Networks in the Frequency
	Bands 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz
	(space-to-Earth)
CEPT/ECC/DEC/(05)10	Free circulation and use of Earth Stations on board Vessels
CEI I/Ecc/BEc/(03)10	operating in fixed satellite service networks in the frequency
	bands 14-14.5 GHz
CEPT/ECC/DEC/(05)11	Free circulation and use of Aircraft Earth Stations (AES) in the
CEI I/ECC/DEC/(03)II	frequency bands 14.0-14.5 GHz (Earth-to-space), 10.7-11.7 GHz
CEPT/ECC/DEC/(0C)01	(space-to-Earth) and 12.5-12.75 GHz (space-to-Earth)
CEPT/ECC/DEC/(06)01	Harmonised utilisation of the bands 1920-1980 MHz and 2110-
	2170 MHz for mobile/fixed communications networks (MFCN)
CEDEMECORECIO	including terrestrial IMT systems
CEPT/ECC/DEC/(06)03	Exemption from Individual Licensing of high e.i.r.p. satellite
	terminals (HEST) 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)04	Harmonised use, exemption from individual licensing and free
	circulation of devices using Ultra-Wideband (UWB) technology in
T.	· · · · · · · · · · · · · · · · · · ·
	bands below 10.6 GHz

CEPT/ECC/DEC/(06)05	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)07	Harmonised use of airborne GSM, LTE and 5G NR non-AAS
CEI I/ECC/DEC/(00)0/	systems in the frequency bands 1710-1785 MHz and 1805-1880
	MHz, and airborne UMTS systems in the frequency bands 1920-
	1980 MHz and 2110-2170 MHz
CEPT/ECC/DEC/(06)08	Conditions for use of the radio spectrum by Ground- and Wall-
	Probing Radar (GPR/WPR) imaging systems
CEPT/ECC/DEC/(06)09	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)13	Designation of the bands 880-915 MHz, 925-960 MHz,
	1710-1785 MHz and 1805-1880 MHz for terrestrial UMTS, LTE,
	WiMAX and IoT cellular systems
CEPT/ECC/DEC/(07)01	Harmonised use, exemption from individual licensing and free
	circulation of Material Sensing Devices using Ultra-Wideband
	(UWB) technology
CEPT/ECC/DEC/(08)01	Harmonised use of Safety-Related Intelligent Transport Systems
	(ITS) in the 5875-5935 MHz frequency band
CEPT/ECC/DEC/(08)05	Harmonisation of frequency bands for the implementation of
	digital Public Protection and Disaster Relief (PPDR) narrow
	band and wide band radio applications in bands within the 380-
CEPT/ECC/DEC/(08)08	470 MHz range Harmonised use of GSM systems in the 900 MHz and 1800 MHz
CEF1/ECC/DEC/(08)08	bands, UMTS systems in the 2 GHz band and LTE systems in the
	1800 MHz and 2.6 GHz bands on board vessels
CEPT/ECC/DEC/(09)01	Harmonised use of the 63.72-65.88 GHz frequency band for
CEI I/Ecc/BEc/(0)/01	Intelligent Transport Systems (ITS)
CEPT/ECC/DEC/(09)02	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)03	Harmonised conditions for Mobile/Fixed Communications
, ,	Networks (MFCN)operating in the band 790-862 MHz
CEPT/ECC/DEC/(09)04	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/(10)02	Compatibility between the fixed satellite service in the 30-31 GHz
	band and the Earth exploration satellite service (passive) in the
CEPT/ECC/DEC/(11)02	31.3-31.5 GHz band
CEPT/ECC/DEC/(11)02	Industrial Level Probing Radars (LPR) operating in frequency
CEPT/ECC/DEC/(11)03	bands 6-8.5 GHz, 24.05-26.5 GHz, 57-64 GHz and 75-85 GHz
CEF1/ECC/DEC/(11)03	Harmonised use of frequencies for Citizens' Band (CB) radio
CEPT/ECC/DEC/(12)01	equipment  Exemption from individual licensing and free circulation and use
CEI 1/ECC/DEC/(12)01	of terrestrial and satellite mobile terminals operating under the
	control of networks
CEPT/ECC/DEC/(12)03	Harmonised conditions for UWB applications onboard aircraft
	Trainionisca contantons for On B applications oncoura an eraft

CEPT/ECC/DEC/(13)01	Harmonised use, free circulation and exemption from individual licensing of Earth Stations On Mobile Platforms (ESOMPs) within
	the frequency bands 17.3-20.2 GHz and 27.5-30.0 GHz
CEPT/ECC/DEC/(14)02	Harmonised technical and regulatory conditions for the use of the
CEI I/ECC/DEC/(14)02	band 2300-2400 MHz for Mobile/Fixed Communications
	Networks (MFCN)
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)
CEPT/ECC/DEC/(15)04	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-
CEPT TO COMP COM \$ 10.5	30.0 GHz
CEPT/ECC/DEC/(15)05	Harmonised frequency range 446.0-446.2 MHz, technical
	characteristics, exemption from individual licensing and free
CEPT/ECC/DEC/(16)01	carriage and use of analogue and digital PMR 446 applications  Harmonised frequency band 76-77 GHz, technical characteristics,
CEF1/ECC/DEC/(10)01	exemption from individual licensing and free carriage and use of
	obstacle detection radars for rotorcraft use
CEPT/ECC/DEC/(16)02	Harmonised technical conditions and frequency bands for the
CEI I/ECC/BEC/(10)02	implementation of Broadband Public Protection and Disaster
	Relief (BB-PPDR) systems
CEPT/ECC/DEC/(17)04	Harmonised use and exemption from individual licensing of fixed
,	earth stations operating with NGSO FSS satellite systems in the
	frequency bands 10.7-12.75 GHz and 14.0-14.5 GHz
CEPT/ECC/DEC/(18)04	Harmonised use, exemption from individual licensing and free
	circulation and use of land based Earth Stations In-Motion
	(ESIM) operating with GSO FSS satellite systems in the frequency
CEPT E CO DE C/40\07	bands 10.7-12.75 GHz and 14.0-14.5 GHz
CEPT/ECC/DEC/(18)05	Harmonised use, exemption from individual licensing and free
	circulation and use of Earth Stations In-Motion (ESIM) operating with NGSO FSS satellite systems in the frequency bands 10.7-
	12.75 GHz and 14.0-14.5 GHz
CEPT/ECC/DEC/(18)06	Harmonised technical conditions for Mobile/Fixed
CEI I/ECC/DEC/(10)00	Communications Networks (MFCN) in the band 24.25-27.5 GHz
CEPT/ECC/DEC/(19)02	Land mobile systems in the frequency ranges 68-87.5 MHz, 146-
,	174 MHz, 406.1-410 MHz, 410-430 MHz, 440-450 MHz and 450-
	470 MHz
CEPT/ECC/DEC/(19)03	Harmonised usage of the channels of the Radio Regulations
	Appendix 18 (transmitting frequencies in the VHF maritime
	mobile band)
CEPT/ECC/DEC/(19)04	Harmonised use of spectrum, free circulation and use of earth
	stations on-board aircraft operating with GSO FSS networks and
	NGSO FSS systems in the frequency bands 12.75-13.25 GHz
CEDE E CORE CUANCI	(Earth-to-space) and 10.7-12.75 GHz (space-to-Earth)
CEPT/ECC/DEC/(20)01	Harmonised use of the frequency band 5945-6425 MHz for
	Wireless Access Systems including Radio Local Area Networks
	(WAS/RLAN)

CEPT/ECC/DEC/(20)02	Harmonised use of the paired frequency bands 874.4-880.0 MHz and 919.4-925.0 MHz and of the unpaired frequency band 1900-1910 MHz for Railway Mobile Radio (RMR)
CEPT/ECC/DEC/(21)01	Use of the bands 47.2-50.2 GHz and 50.4-52.4 GHz by the fixed-satellite service (Earth-to-space)
CEPT/ECC/DEC/(21)02	Harmonised frequency band 76-77 GHz, technical characteristics, exemption from individual licensing and free circulation and use of High Definition Ground Based Synthetic Aperture Radar (HD-GBSAR)
CEPT/ECC/DEC/(22)01	Free circulation and use of Mobile/Fixed Communication Networks (MFCN) terminals operating under the control of terrestrial networks
CEPT/ECC/DEC/(22)02	Regulation to operate Autonomous Maritime Radio Devices (AMRD) in CEPT
CEPT/ECC/DEC/(22)03	Technical characteristics, exemption from individual licensing and free circulation and use of specific radiodetermination applications in the frequency range 116-260 GHz
CEPT/ECC/DEC/(22)06	Harmonised technical conditions for Mobile/Fixed Communications Networks (MFCN) in the band 40.5-43.5 GHz
CEPT/ECC/DEC/(22)07	Harmonised technical conditions for the usage of aerial UE for communications based on LTE and 5G NR in the bands 703-733 MHz, 832-862 MHz, 880-915 MHz, 1710-1785 MHz, 1920-1980 MHz, 2500-2570 MHz and 2570-2620 MHz harmonised for MFCN
CEPT/ECC/DEC/(23)01	Use of the band 40.5-42.5 GHz by earth stations in the fixed-satellite service (space-to-Earth) and broadcasting-satellite service and on the use of the band 42.5-43.5 GHz by earth stations in the fixed-satellite service (Earth-to-space)
CEPT/ECC/DEC/(24)01	Harmonised technical conditions for the shared use of the 3800-4200 MHz frequency band by low/medium power terrestrial wireless broadband systems (WBB LMP) providing local-area network connectivity

## V. Nõukogu direktiivid

91/287/EMÜ	Nõukogu direktiiv, 3. juuni 1991, sagedusriba kohta, mis eraldatakse Euroopa
	digitaalse juhtmeta telekommunikatsioonisüsteemi (DECT) kooskõlastatud
	kasutuselevõtmiseks ühenduses

## 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.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.1174	Technical characteristics of equipment used for on-board vessel
	communications in the bands between 450 and 470 MHz
ITU-R M.1177	Techniques for measurement of unwanted emissions of radar systems
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
ITU-R M.2010	Characteristics of a digital system, named Navigational Data for
	broadcasting maritime safety and security related information from shore-
	to-ship in the 500 kHz band

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

ICAO dokumendid	ICAO konventsiooni lisa 10, I kd
	ICAO konventsiooni lisa 10, IV kd

## VIII. Euroopa Liidu õigusaktid

<b>2001/148/EÜ</b>	Komisjoni otsus, 21. veebruar 2001, direktiivi 1999/5/EÜ artikli 3 lõike 3
	punkti e kohaldamisest laviinimajakate suhtes
2004/545/EÜ	Komisjoni otsus, 8. juuli 2004, raadiospektri kasutuse ühtlustamise kohta
	sagedusalal 79 GHz seoses lähiala liiklusradarite kasutusega ühenduses
(EÜ) 552/2004	Euroopa Parlamendi ja nõukogu määrus, 10. märts 2004, Euroopa
	lennuliikluse juhtimisvõrgu koostalitlusvõime kohta (koostalitlusvõime
	määrus)
2005/50/EÜ	Komisjoni otsus, 17. jaanuar 2005, 24 GHz raadiosagedusala ajutise
	kasutuse ühtlustamise kohta seoses sõidukite lähitoimeradarseadmete
	kasutusega ühenduses
2005/631/EÜ	Komisjoni otsus, 29. august 2005, Euroopa Parlamendi ja nõukogu
	direktiivis 1999/5/EÜ osutatud oluliste nõuete kohta, mis tagavad
	CospasSarsat asukohamajakate juurdepääsu hädaabiteenustele
2006/771/EÜ	Komisjoni otsus, 9. november 2006, lähitoimeseadmete raadiospektri
	ühtlustamise kohta
2007/98/EÜ	Komisjoni otsus, 14. veebruar 2007, raadiospektri 2 GHz sagedusalas
	ühtlustatud kasutamise kohta liikuva kosmoseside süsteemi rakendamiseks
2008/294/EÜ	Komisjoni otsus, 7. aprill 2008, õhusõiduki pardal osutatavate
	mobiilsideteenuste spektrikasutuse ühtlustatud tingimuste kohta ühenduses
2008/411/EÜ	Komisjoni otsus, 21. mai 2008, sagedusala 3400–3800 MHz ühtlustamise
	kohta maapealsete süsteemide jaoks, millega on võimalik ühenduses
	pakkuda elektroonilisi sideteenuseid
2008/477/EÜ	Komisjoni otsus, 13. juuni 2008, sagedusala 2500–2690 MHz ühtlustamise
	kohta maapealsete süsteemide jaoks, millega on võimalik ühenduses
	pakkuda elektroonilisi sideteenuseid
626/2008/EÜ	Euroopa Parlamendi ja nõukogu otsus, 30. juuni 2008, liikuva
	kosmoseside teenuseid pakkuvate süsteemide valiku ja nendega seotud
	lubade andmise kohta

••	
2010/166/EÜ	Komisjoni otsus, 19. märts 2010, laeva pardal osutatavate
	mobiilsideteenuste (MCV-teenuste) raadiospektrikasutuse ühtlustatud
	tingimuste kohta Euroopa Liidus
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
2011/829/EL	Komisjoni rakendusotsus, 8. detsember 2011, millega muudetakse otsust
	2006/771/EÜ lähitoimeseadmete raadiospektri ühtlustamise kohta
2012/688/EL	Komisjoni rakendusotsus, 5. november 2012, sagedusvahemike 1 920–1
	980 MHz ja 2 110–2 170 MHz ühtlustamise kohta maapealsete süsteemide
	jaoks, millega on võimalik pakkuda elektroonilisi sideteenuseid Euroopa
	Liidus
(EL) 1079/2012	Komisjoni rakendusmäärus, 16. november 2012, millega kehtestatakse
	ühtses Euroopa taevas kasutatavad kõneside kanalisammud
2013/638/EL	Komisjoni otsus, 12. august 2013, oluliste nõuete kohta seoses
	merelaevade raadioseadmetega, mis on ette nähtud paigaldamiseks
	SOLASega hõlmamata laevadele ja kavandatud osalema ülemaailmses
	merehäda- ja ohutuse süsteemis (GMDSS)
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
2014/276/EL	Komisjoni rakendusotsus, 2. mai 2014, otsuse 2008/411/EÜ (sagedusala 3
	400 – 3 800 MHz ühtlustamise kohta maapealsete süsteemide jaoks,
	millega on võimalik ühenduses pakkuda elektroonilise side teenuseid)
(EL) 2015/550	muutmise kohta
(EL) 2015/750	Komisjoni rakendusotsus, 8. mai 2015, sagedusala 1 427 – 1 517 MHz
	ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik
(EL) 201(/220	pakkuda elektroonilise side teenuseid Euroopa Liidus Komisjoni rakendusotsus, 8. märts 2016, 2 010–2 025 MHz sagedusala
(EL) 2016/339	ühtlustamise kohta programmitootmiseks ja erisündmuste edastamiseks
	kasutatavate portatiivsete või mobiilsete traadita videolinkide ja juhtmeta
	kaamerate puhul
(EL) 2016/687	Komisjoni rakendusotsus, 28. aprill 2016, sagedusala 694–790 MHz
(EL) 2010/007	ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik
	osutada traadita elektroonilise lairibaside teenuseid, ja selle sagedusala
	riigisiseseks paindlikuks kasutamiseks Euroopa Liidus
(EL) 2017/191	Komisjoni rakendusotsus, 1. veebruar 2017, millega muudetakse otsust
(22) 201/11/1	2010/166/EL, et võtta Euroopa Liidus laeva pardal osutatavate
	mobiilsideteenuste (MCV-teenuste) puhul kasutusele uued tehnoloogiad ja
	sagedused
(EL) 2017/899	Euroopa Parlamendi ja nõukogu otsus, 17. mai 2017, 470–790 MHz
, , ===,,	sagedusala kasutamise kohta liidus
(EL) 2017/1483	Komisjoni rakendusotsus, 8. august 2017, millega muudetakse otsust
	2006/771/EÜ lähitoimeseadmete raadiospektri ühtlustamise kohta ja
	tunnistatakse kehtetuks otsus 2006/804/EÜ
(EL) 2017/2077	Komisjoni rakendusotsus, 10. november 2017, millega muudetakse otsust
	2005/50/EÜ 24 GHz raadiosagedusala ajutise kasutuse ühtlustamise kohta
	seoses sõidukite lähitoimeradarseadmete kasutusega ühenduses
(EL) 2018/661	Komisjoni rakendusotsus, 26. aprill 2018, millega muudetakse
	rakendusotsust (EL) 2015/750 (sagedusala 1 452 – 1 492 MHz

ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimali	il
pakkuda elektroonilise side teenuseid Euroopa Liidus) seoses selle	IK
laiendamisega ühtlustatud sagedusaladele 1 427 – 1 452 MHz ja	
1 492 – 1 517 MHz	
(EL) 2018/1538 Komisjoni rakendusotsus, 11. oktoober 2018, lähitoimeseadmete	
raadiospektri ühtlustamise kohta sagedusalades 874–876 MHz ja	
915–921 MHz	
<b>(EL) 2019/235</b> Komisjoni rakendusotsus, 24. jaanuar 2019, otsuse 2008/411/EÜ	
muutmise kohta seoses sagedusala 3 400 – 3 800 MHz suhtes	
kohaldatavate tehniliste tingimuste ajakohastamisega	
(EL) 2019/784 Komisjoni rakendusotsus, 14. mai 2019, sagedusala 24,25–27,5 GHz	
ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimali	ik
liidus pakkuda traadita elektroonilise lairibaside teenuseid	
(EL) 2019/785 Komisjoni rakendusotsus, 14. mai 2019, millega ühtlustatakse	
raadiospektri kasutus ultralairibaseadmetel ja tunnistatakse kehtetuks	otsus
2007/131/EÜ	
(EL) 2019/1345   Komisjoni rakendusotsus, 2. august 2019, millega muudetakse otsust	
2006/771/EÜ, et ajakohastada ühtlustatud tehnilisi tingimusi	
lähitoime-seadmete jaoks kasutatavate raadiosageduste vallas	(EL)
(EL) 2020/590 Komisjoni rakendusotsus, 24. aprill 2020, millega muudetakse otsust	(EL)
2019/784 seoses sagedusala 24,25–27,5 GHz suhtes kohaldatavate	
tehniliste tingimuste ajakohastamisega  (EL) 2020/636	
(EL) 2020/636 Komisjoni rakendusotsus, 8. mai 2020, millega muudetakse otsust 2008/477/EÜ seoses sagedusala 2 500 – 2 690 MHz suhtes kohaldata	wate
tehniliste tingimuste ajakohastamisega	ivaic
(EL) 2020/667 Komisjoni rakendusotsus, 6. mai 2020, millega muudetakse otsust	
2012/688/EL seoses sagedusalade 1 920 – 1 980 ja 2 110 – 2 170 MF	łz
suhtes kohaldatavate tehniliste tingimuste ajakohastamisega	12
(EL) 2020/1426 Komisjoni rakendusotsus, 7. oktoober 2020, mis käsitleb raadiospekt	ri
sagedusala 5 875 – 5 935 MHz ühtlustatud kasutamist ohutusega seot	
intelligentsete transpordisüsteemide (ITS) rakenduste jaoks ja millega	a
tunnistatakse kehtetuks otsus 2008/671/EÜ	
(EL) 2021/1067 Komisjoni rakendusotsus, 17. juuni 2021, mis käsitleb raadiospektri	
sagedusala 5 945 – 6 425 MHz ühtlustatud kasutamist traadita juurde	pääsu
süsteemide, sealhulgas raadio-kohtvõrkude (WAS/RLANide)	
rakendamiseks	
(EL) 2021/1730 Komisjoni rakendusotsus, 28. september 2021, mis käsitleb	•.
paarissagedusalade 874,4–880,0 MHz ja 919,4–925,0 MHz ning paar	
sagedusala 1 900 – 1 910 MHz ühtlustatud kasutamist raudtee mobiil	seks
raadiosideks (EL) 2022/173 Komisjoni rakendusotsus, 7. veebruar 2022, millega ühtlustatakse 90	0
MHz ja 1 800 MHz sagedusalad selliste maapealsete süsteemide jaok	
millega on võimalik osutada liidus elektroonilise side teenuseid, ning	
tunnistatakse kehtetuks otsus 2009/766/EÜ	,
(EL) 2022/179 Komisjoni rakendusotsus, 8. veebruar 2022, mis käsitleb raadiospekti	ri
ühtlustatud kasutamist sagedusalas 5 GHz traadita juurdepääsusüstee	
sealhulgas raadio-kohtvõrkude (WAS/RLAN) rakendamiseks ja mille	
tunnistatakse kehtetuks otsus 2005/513/EÜ	J
(EL) 2022/180 Komisjoni rakendusotsus, 8. veebruar 2022, millega muudetakse otsu	ıst
2006/771/EÜ, et ajakohastada ühtlustatud tehnilisi tingimusi	
lähitoimeseadmete jaoks kasutatavate raadiosageduste vallas	

(EL) 2024/1983	Komisjoni rakendusotsus, 18. juuli 2024, 40,5–43,5 GHz sagedusala
	ühtlustamise kohta maapealsete süsteemide jaoks, millega on võimalik
	liidus pakkuda traadita elektroonilise lairibaside teenuseid
(EL) 2024/3157	Komisjoni rakendusotsus, 17. detsember 2024, millega muudetakse
	rakendusotsust (EL) 2021/1067, mis käsitleb raadiospektri sagedusala 5
	945 – 6 425 MHz ühtlustatud kasutamist traadita juurdepääsusüsteemide,
	sealhulgas raadio-kohtvõrkude (WAS/RLANide) rakendamiseks
(ET) 2025/105	Komisjoni rakendusotsus, 22. jaanuar 2025, millega muudetakse otsust
	2006/771/EÜ, et ajakohastada ühtlustatud tehnilisi tingimusi
	lähitoimeseadmete jaoks kasutatavate raadiosageduste vallas, ning
	tunnistatakse kehtetuks otsus 2014/641/EL, milles käsitletakse liidus
	programmitootmise ja erisündmuste edastamise traadita audioseadmetes
	kasutatava raadiospektriga seotud ühtlustatud tehnilisi tingimusi
(EL) 2025/650	Komisjoni rakendusotsus, 6. märts 2025, millega muudetakse
	rakendusotsust (EL) 2018/1538, et ajakohastada ühtlustatud tehnilisi
	tingimusi lähitoimeseadmete puhul sagedusalades 874–876 MHz ja 915–
	921 MHz

# IX. Rahvusvahelised kokkulepped

Genfi 1975. a	Final acts of the Regional Administrative LF/MF Broadcasting
kokkulepe	Conference (Regions 1 and 3)
Genfi 1984. a	Final Acts of the Regional Administrative Conference for the
kokkulepe	planning of VHF Sound Broadcasting (Region 1 and part of
	Region 3)
Genfi 1985. a	Plans for Maritime Radionavigation Services in the European
kokkulepe	Maritime Area and for MF Maritime Mobile and Aeronautical
	Radionavigation Services
Genfi 2006. a	Regional Agreement relating to the planning of the digital
kokkulepe	terrestrial 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
Wiesbadeni 1995. a	The CEPT T-DAB planning meeting, Wiesbaden, 3rd to 21st July
kokkulepe, rev CO 07	1995; FINAL ACTS of the CEPT T-DAB Planning

## 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
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 Res. 32	ITU "Radio Regulations" Resolution 32 "Regulatory procedures for frequency
	assignments to non-geostationary-satellite networks or systems identified as
	short-duration mission not subject to the application of Section II of Article 9"
<b>RR Res. 217</b>	ITU "Radio Regulations" Resolution 217 "Implementation of wind profiler
	radars"
<b>RR Res. 220</b>	Terrestrial component of International Mobile Telecommunications (IMT)
	within the frequency band 6 425-7 125 MHz
<b>RR Res. 244</b>	International Mobile Telecommunications in the frequency band 45.5-47 GHz
<b>RR Res. 339</b>	ITU "Radio Regulations" Resolution 339 "Coordination of NAVTEX
	services"
<b>RR Res. 364</b>	Coordination of services provided by the NAVDAT system
<b>RR Res. 406</b>	Use of the frequency band 117.975-137 MHz by the aeronautical mobile-
	satellite (R) service
RR Res. 418	ITU "Radio Regulations" Resolution 418 "Use of the frequency band 5 091-5
	250 MHz by the aeronautical mobile service for telemetry applications"
RR Res. 425	ITU "Radio Regulations" Resolution 425 "Use of the frequency band 1 087.7-
	1 092.3 MHz by the aeronautical mobile-satellite (R) service (Earth-to-space)
	to facilitate global flight tracking for civil aviation"
RR Res. 517	ITU "Radio Regulations" Resolution 517, Introduction of digitally
	modulated emissions in the high-frequency bands between 3 200 kHz and 26
	100 kHz allocated to the broadcasting service"
<b>RR Res. 660</b>	ITU "Radio Regulations" Resolution 660 "Use of the frequency band 137-138
	MHz by non-geostationary satellites with short-duration missions in the space
	operation service"
<b>RR Res. 677</b>	Use of the frequency range 40-50 MHz allocated to the Earth exploration-
	satellite service (active) for spaceborne radar sounders
RR Res. 748	ITU "Radio Regulations" Resolution 748 "Compatibility between the
	aeronautical mobile (R) service and the fixed-satellite service (Earth-to-
	space) in the frequency band 5 091-5 150 MHz"
	space) in the frequency band 5 091-5 150 MHz"

## XI. ETSI standardid

EN 300 086	Liikuv maaside; Eeskätt analoogkõne jaoks mõeldud kõrgsagedusliku sise-
	või välisühendusega raadioseadmed; Harmoneeritud standard direktiivi
	2014/53/EL artikli 3.2 alusel
EN 300 113	Liikuv maaside; Antenniühendusega pidevat või vahelduvat mähisjoone
	modulatsiooni kasutavad raadioseadmed andme- ja/või kõneedastuseks;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete
	alusel
EN 300 219	Liikuv maaside; Raadioseadmed, mis signaale edastades kutsuvad
	vastuvõtjas esile kindlatüübilise reaktsiooni; Harmoneeritud standard
	direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel
EN 300 220-2	Raadiosagedusalas 25 MHz kuni 1 000 MHz töötavad lähitoimeseadmed
	(SRD); Osa 2: Mittespetsiifiliste raadioseadmete harmoneeritud standard
	direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel
EN 300 224	Liikuv maaside; Raadiosagedusalas 25 MHz – 470 MHz töötavad
	isikuotsingusüsteemi raadioseadmed; Harmoneeritud standard direktiivi
	2014/53/EL artikli 3.2 oluliste nõuete alusel

EN 300 296	Liikuv maaside; Peamiselt analoogkõneks ette nähtud liitantenniga
EN 300 290	raadioseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2
	oluliste nõuete alusel
EN 300 328	Lairiba edastussüsteemid; Lairibamodulatsiooni tehnoloogiat kasutavad
EN 300 320	2,4 GHz ISM raadiosagedusalas töötavad andmeedastusseadmed;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete
	alusel.
EN 300 330	Lähitoimeseadmed (SRD); Raadiosagedusalas 9 kHz kuni 25 MHz
E11 300 330	töötavad raadioseadmed ja sagedusalas 9 kHz kuni 30 MHz töötavad
	induktiivseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 oluliste nõuete alusel.
EN 300 341	Liikuv maaside; Liitantenni kasutavad raadioseadmed, mis signaale
	edastades kutsuvad vastuvõtjas esile kindlatüübilise reaktsiooni;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete
	alusel
EN 300 373	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)MF ja
	HF raadiosagedusalas kasutatavad liikuva mereside raadiosaatjad ja -
	vastuvõtjad
EN 300 390	Liikuv maaside; Liitantenniga raadioseadmed andme- ja kõneedastatuseks;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete
	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 300 433-1	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Üldkasutatava raadiosagedusala (CB) raadioseadmed; Osa 1. Tehnilised
TINI 200 422 2	omadused ja mõõtmismeetodid
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:
EN 300 440	Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 300 440	Lähitoimeseadmed (SRD); Raadiosagedusalas 1 GHz kuni 40 GHz kasutatavad raadioseadmed; Raadiospektrile juurdepääsu harmoneeritud
	standard
EN 300 674-2-1	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
E11 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 300 674-2-2	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 300 676-2	VHF raadiosagedusala liikuva lennuside teenistuse maapealsed
	kaasaskantavad, liikuvad ja kohtkindlalt paigaldatavad
	amplituudmodulatsiooniga raadiosaatjad, vastuvõtjad ja transiiverid. Osa
	2: Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel

EN 300 718-1	Sagedusel 457 kHz töötavad laviiniohvrite detekteerimisseadmed; Saate –
E14 500 710-1	vastuvõtu süsteemid; Osa 1: Harmoneeritud standard raadiospektrile
	juurdepääsuks
EN 300 718-2	Sagedusel 457 kHz töötavad laviiniohvrite detekteerimisseadmed; Saate –
	vastuvõtu süsteemid; Osa 2: Harmoneeritud standard hädaolukorra
	teenuste funktsioonide jaoks
EN 300 720	Ultrakõrgsagedusel (UHF) töötavad pardasidesüsteemid ja seadmed;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete
	alusel
EN 301 025	Üldside VHF raadiotelefoniseadmed ja klassi D digitaalselektiivväljakutse
	(DSC) lisaseadmed; Harmoneeritud standard juurdepääsuks raadiospektrile
EN 201 001 0	ja päästeteenistustele
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 301 166	Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel Liikuv maaside; Antenni ühendusega kitsaribalisel kanalil töötavad
E14 201 100	analoog- ja/või digitaalside (kõne ja /või andmeedastus) raadioseadmed;
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 301 178	Liikuva mereside VHF sagedusalades töötav teisaldatav ülikõrgsagedusala
	(VHF) raadiotelefon (mitte GMDSS rakenduste jaoks); Harmoneeritud
	standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel
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 301 406	Raadiotelefonisüsteem (DECT).Raadiotelefonisüsteemi (DECT)
	harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel.Üldised
EN 201 426	raadionõuded
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 põhinõuete alusel
EN 301 428	Kosmoseside maajaamad ja süsteemid (SES) Mikroantennjaamade
	(VSAT) 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 301 430	Kosmoseside maajaamad ja süsteemid (SES) Raadiosagedusalades 11-
	12/13-14 GHz töötavate ja uudiste ajutiseks edastamiseks mõeldud
	kosmosesidesüsteemi liikuvate maajaamade (SNG TES) harmoneeritud
TENI 204 444	EN R&TTE direktiivi artikli 3 lõike 2 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
	põhinõuete alusel
EN 301 442	Kosmoseside maajaamad ja süsteemid (SES) Liikuva kosmoseside (MES)
LIN OUI ITE	raadiosagedusalas 2 GHz töötavate isikliku kasutusega
	kosmosesidesüsteemi (S-PCN) liikuvate maajaamade (MES), kaasa
L	J

	arvatud käsijaamade harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2
	põhinõuete 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 301 447	Kosmoseside maajaamad ja süsteemid (SES) Paiksele kosmosesidele
	(FSS) eraldatud raadiosagedusalades 4/6 GHz töötavate veesõidukitele
	paigaldatud kosmoseside maajaamade (ESV) põhinõuded, harmoneeritud
TIN 201 450	EN R&TTE direktiivi artikli 3.2 alusel
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 301 489-1	Raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
EN 301 409-1	(EMC) standard; Osa 1: Üldised tehnilised nõuded; Harmoneeritud
	standard direktiivi 2014/53/EL artikli 3.1b ja direktiivi 2014/30/EL artikli
	6 alusel
EN 301 489-3	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse
	(EMC) standard Osa 3: Eritingimused raadiosagedusalades 9 kHz kuni 40
	GHz töötavatele lähitoimeseadmetele (SRD)
EN 301 489-12	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
	(ERM).Raadioseadmete ja raadiosideteenistuste elektromagnetilise
	ühilduvuse (EMC) standard. Osa 12:Eritingimused paikse kosmoseside
	(FSS) raadiosagedusalas 4 GHz kuni 30 GHz töötavatele VSAT-
	terminalidele ja satelliitside interaktiivsetele maajaamadele
EN 301 489-17	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadioseadmete elektromagnetilise ühilduvuse (EMC) standard Osa 17:
EN 201 400 20	Eritingimused lairiba andmeedastussüsteemidele
EN 301 489-20	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Raadioseadmete ja raadiosideteenistuste elektromagnetilise ühilduvuse (EMC) standard Osa 20: Eritingimused liikuvas kosmosesides (MSS)
	kasutatavatele liikuvatele maajaamadele (MES)
EN 301 502	Mobiiltelefonisüsteem (GSM); Baasjaamade (BS) seadmed;
EN 301 302	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 301 511	Globaalne mobiiltelefonisüsteem (GSM) Raadiosagedusalades GSM 900
E1( 301 311	ja DCS 1 800 töötavate liikuvate raadiojaamade põhinõuded,
	harmoneeritud standard R&TTE direktiivi (1999/5/EÜ) artikli 3.2 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 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 301 721	Kosmoseside maajaamad ja süsteemid (SES); Raadiosagedusel alla 1 GHz
	maalähedase orbiidi (LEO) satelliitsüsteemide madala

	andmeedastuskiirusega (LBRDC) liikuvate maajaamade (MES)
	põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel
EN 301 783-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM) Liikuv
E1( 501 705-2	maaside kaubandusest kättesaadavad amatöör-raadioseadmed Osa 2:
	Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 301 839	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
21(00100)	(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
	R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 301 841-3	VHF maa-õhk digitaallink (VDL) mood 2; Maapealsete seadmete
	tehnilised karakteristikud ja mõõtmismeetodid; Osa 3: Harmoneeritud
	standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel
EN 301 842-5	VHF maa-õhk digitaallink (VDL) mood 4 raadioseade; Maapealsete
	seadmete tehnilised karakteristikud ja mõõtmismeetodid; Osa 5:
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 301 843-1	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Mereside raadioseadmete ja raadiosideteenistuste elektromagnetilise
	ühilduvuse (EMC) standard Osa 1: Üldised tehnilised nõuded
EN 301 843-6	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Mereside raadioseadmete ja raadiosideteenistuste elektromagnetilise
	ühilduvuse (EMC) standard Osa 6: Eritingimused veesõiduki pardal
EN 201 002	olevatele saatesagedusega üle 3 GHz kosmoseside maajaamadele
EN 301 893	Lairiba raadiojuurdepääsuvõrgud (BRAN) Raadiosagedusalas 5 GHz
	töötavate suure edastuskiirusega RLAN seadmed Harmoneeritud EN
EN 301 908-1	R&TTE direktiivi artikli 3.2 põhinõuete alusel IMT kärgsidevõrgud; Harmoneeritud standard juurdepääsuks
EN 301 900-1	raadiospektrile; Osa 1: Sissejuhatus ja üldised nõuded
EN 301 908-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
E1( 501 )00-2	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 301 908-3	IMT kärgsidevõrgud; Harmoneeritud standard juurdepääsuks
	raadiospektrile; Osa 3: Otsese hajutamisega CDMA (UTRA FDD)
	baasjaamad (BS)
EN 301 908-4	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS),
	repiiterid ja kasutajaseadmed (UE) Osa 4: IMT-2000, mitme kandjaga
	CDMA (cdma2000 ja UMB) kasutajaseadmete põhinõuded, harmoneeritud
EN 204 000 C	EN R&TTE direktiivi artikli 3 lõike 2 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 301 908-9	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
1211 JUI JUO-J	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS) ja
	kasutajaseadmed (UE) Osa 9: IMT-2000, ühe kandjaga TDMA (UWC
	136) (BS) põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2
	alusel
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EN 301 908-11	IMT kärggidavõrgud: Harmanagritud standard diraktiivi 2014/52/EL artikli
EN 301 906-11	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel; Osa 11: Otsese hajutamisega CDMA (UTRA FDD) repiiterid
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 301 908-14	IMT kärgsidevõrgud; Harmoneeritud standard juurdepääsuks
	raadiospektrile; Osa 14: E-UTRA baasjaamad (BS)
EN 301 908-15	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel; Osa 15: E-UTRA FDD repiiterid
EN 301 908-16	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	Kolmanda põlvkonna mobiilsidevõrgu IMT-2000 baasjaamad (BS),
	repiiterid ja kasutajaseadmed (UE) Osa 16: IMT-2000 CDMA mitme
	kandjaga UMB kasutajaseadmete põhinõuded, harmoneeritud EN R&TTE
	direktiivi artikli 3 lõike 2 alusel
EN 301 908-18	IMT kärgsidevõrgud; Harmoneeritud standard juurdepääsuks
	raadiospektrile; Osa 18. E-UTRA, UTRA ja GSM/EDGE multistandard-
	raadio (MSR) baasjaam (BS)
EN 301 908-19	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 oluliste nõuete alusel; Osa 19: OFDMA TDD WMAN (Mobile
	WiMAX) TDD kasutajaseadmed (UE)
EN 301 908-22	IMT kärgsidevõrgud; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel; Osa 22: OFDMA TDD WMAN (Mobile WiMAX) FDD
EN 201 000 22	baasjaamad (BS)
EN 301 908-23	IMT kärgsidesidevõrgud; Raadiospektrile juurdepääsu harmoneeritud
	standard; Osa 23. Aktiivse antennisüsteemiga (AAS) tugijaamad (BS); Versioon 15
EN 301 908-24	IMT kärgsidesidevõrgud; Raadiospektrile juurdepääsu harmoneeritud
EN 301 306-24	standard; Osa 25. New Radio (NR) tugijaamad (BS)
EN 301 908-25	IMT kärgsidesidevõrgud; Raadiospektrile juurdepääsu harmoneeritud
21 301 700-23	standard; Osa 25. New Radio (NR) kasutajaseadmed (UE)
EN 302 017	Amplituudmodulatsiooniga (AM) raadioringhäälingusüsteemi
21(002017	raadiosaateseadmed; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 oluliste nõuete alusel
EN 302 018	Sagedusmoduleeritud (FM) raadioringhäälingusaatjad; Harmoneeritud
	standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel
EN 302 054	Meteoroloogia raadiosondid (Met Aids); Raadiosagedusvahemikus 400,15
	MHz kuni 406 MHz kasutamiseks mõeldud raadiosondid võimsusega kuni
	200 mW; Raadiospektrile juurdepääsu harmoneeritud standard
EN 302 064	Elektromagnetilise ühilduvuse ja raadiospektri küsimused
	(ERM)Raadiosagedusvahemikus 1,3 GHz kuni 50 GHz töötavad juhtmeta
	videolingid (WVL) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2
	alusel
EN 302 065	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)Sideks
	ultralairiba tehnoloogiat kasutavad lähitoimeseadmed,Harmoneeritud EN
777 605 6 5 5	R&TTE direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 066	Lähitoimeseadmed (SRD); Pinnase ja seina sondeerimisradarite
	rakendused; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2
	põhinõuete alusel

EN 302 077 Digitaalse raadioringhäälinguteenuse (T-DAB) raadiosaateseadr	ned;
Harmoneeritud standard juurdepääsuks raadiospektrile	
EN 302 152-1 Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM	
Raadiosagedusel 121,5 MHz või raadiosagedustel 121,5 MHz ja	1 243 MHZ
sihitamise eesmärgil töötavad avariipoid (EPIRB); Osa 1	/12/14 CH
EN 302 186 Kosmoseside maajaamad ja süsteemid (SES) Sagedusalades 11/	
töötavate liikuva kosmoseside õhusõidukite maajaamade (AES)	
põhinõuded, harmoneeritud EN R&TTE direktiivi artikli 3.2 alu	
EN 302 195 Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM	
Raadiosagedusalas 9 kHz kuni 315 kHz töötavad raadioseadmed	_
väikese võimsusega aktiivsete meditsiiniliste implantaatide (UL	
nende lisatarvikute (ULP-AMI-P) jaoks Osa 2 Harmoneeritud E	N R&IIE
direktiivi artikli 3 lõike 2 põhinõuete alusel.	***
EN 302 208 Raadiosagedusalas 865 MHz kuni 868 MHz võimsusega kuni 2	
raadiosagedusalas 915 MHz kuni 921 MHz võimsusega kuni 4 V	
raadiosageduslikud identifitseerimisseadmed; Harmoneeritud sta	andard
direktiivi 2014/53/EL artikli 3.2 põhinõuete alusel	
EN 302 217-2 Paiksed raadiosüsteemid Raadioliinide seadmete ja antennide	1 :06
karakteristikud ja nõuded; Osa 2: Raadiosagedusalades 1,3 GHz	
GHz töötavad digitaalsüsteemid; Harmoneeritud standard direkt	11V1
2014/53/EL artikli 3.2 alusel	
EN 302 248 Elektromagnetilise ühilduvuse ja raadiospektri küsimused	4
(ERM)Navigatsiooniradarid SOLAS konventsiooniga hõlmama	
laevadelHarmoneeritud EN R&TTE direktiivi artikli 3.2 pöhinõ EN 302 264 Lähitoimeseadmed; Transpordi ja liiklusetelemaatikasüsteemi sa	
EN 302 264 Lähitoimeseadmed; Transpordi ja liiklusetelemaatikasüsteemi se (TTT); Sagedusalas 77 GHz kuni 81 GHz töötav sõidukiradar;	eadmed
Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 põhinõ	Suete olucel
EN 302 288-2 Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM	
Lähitoimeseadmed Maanteesidesüsteemi seadmed (RTTT) Sage	/
GHz töötavad sõidukiradarid Osa 2: Harmoneeritud EN R&TTE	
artikli 3.2 põhinõuete alusel	2 direktiivi
EN 302 296 Maapealse digitaalse televisiooniringhäälingusüsteemi	
raadiosaateseadmed; Harmoneeritud standard direktiivi 2014/53	/FI. artikli
3.2 alusel	, 22 61 011111
EN 302 326-2 Paiksed raadiosüsteemid; Paikse raadiovõrgu seadmed ja antenn	nid; Osa 2:
Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel	,
EN 302 326-3 Paiksed raadiosidesüsteemid Mitmikside seadmed ja antennid O	)sa 3:
Mitmikpunktside raadioantennide harmoneeritud EN R&TTE di	
artikli 3.2 põhinõuete alusel	
EN 302 340 Kosmoseside maajaamad ja süsteemid (SES) Paiksele kosmoses	sidele
(FSS) eraldatud raadiosagedusalades 11/12/14 GHz töötavate	
veesõidukitele paigaldatud kosmoseside maajaamade (ESV) põl	ninõuded,
harmoneeritud EN R&TTE direktiivi artikli 3.2 alusel	
EN 302 372 Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM	<u>—</u>
Lähitoimeseadmed Tuvastamis- ja liikumisandurid Raadiosaged	
8, 10, 25, 61 ja 77 GHz töötavad mahutite taseme sondeerimisra	
(TLPR) Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3.2	
EN 302 435-2 Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM	/
Lähitoimeseadmed (SRD) Ultralairiba (UWB) tehnoloogiat kasu	
lähitoimeseadmete tehnilised näitajad Raadiosagedusvahemikus	
kuni 8,5 GHz töötavad ehitusmaterjalide analüüsi ja klassifitseer	rimise

	rakendused Osa 2: Harmoneeritud EN R&TTE direktiivi artikli 3 lõike 2
	põhinõuete alusel
EN 302 448	Kosmoseside maajaamad ja süsteemid (SES) Raadiosagedusalades 14/12
111002110	GHz töötavad rongidele jälgimiseks paigaldatud maajaamade
	harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 302 480	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
	Õhusõiduki pardal GSM mobiilside süsteemi harmoneeritud EN R&TTE
	direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 498-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	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
EN 202 500 2	alusel
EN 302 500-2	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
	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 302 502	Lairiba raadiojuurdepääsuvõrgud (BRAN) Raadiosagedusalas 5,8 GHz
	töötavad paiksed lairiba andmeedastussüsteemid harmoneeritud EN
	R&TTE direktiivi artikli 3.2 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
EN 302 536	põhinõuete alusel
EN 302 530	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM). Lähitoimeseadmed (SRD). Raadiosagedusalas 315 kHz kuni 600 kHz
	töötavad seadmed (SRD). Raadiosagedusalas 313 KHz kuli 000 KHz töötavad seadmed. Osa 2: Harmoneeritud EN RjaTTE direktiivi artikli 3.2
	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 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
TIN 000 7 (7)	alusel
EN 302 567	Lairiba raadiojuurdepääsuvõrgud (BRAN).Raadiosagedusalas 60 GHz
	töötavad WAS/RLAN süsteemid.Harmoneeritud EN R&TTE direktiivi
EN 302 571	artikli 3.2 põhinõuete alusel Intelligentsed transpordisüsteemid (ITS); Sagedusvahemikus 5855 MHz
EN 302 3/1	kuni 5925 MHz töötavad raadioseadmed; Harmoneeritud EN R&TTE
	direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 574-2	Kosmoseside maajaamad ja süsteemid (SES)Sagedusalades 1 980 MHz
DITOUE STATE	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
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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
EN 202 (00	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 302 609	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM)
EN 302 009	Lähitoimeseadmed (SRD) Raudteesidesüsteemi Euroloop raadioseadmed
	Harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 302 645	Elektromagnetilise ühilduvuse ja raadiospektri küsimused (ERM);
E11 302 043	Lähitoimeseadmed (SRD);Ülemaailmse kosmoseside
	navigatsioonisüsteemi (GNSS) repiiterid; Harmoneeritud EN R&TTE
	direktiivi artikli 3 lõike 2 põhinõuete alusel
EN 302 686	Intelligentsed transpordisüsteemid(ITS); Raadiosagedusalades 63-64 GHz
	töötavad raadioseadmed; Harmoneeritud standard R&TTE direktiivi artikli
	3 lõike 2 põhinõuete alusel
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 302 977	Kosmoseside maajaamad ja süsteemid (SES). Raadiosagedusalades 12/14
	GHz töötavad liiklusvahenditele paigaldatud maajaamade (VMES)
EN 202 020	harmoneeritud EN R&TTE direktiivi artikli 3.2 põhinõuete alusel
EN 303 039	Liikuv maaside; PMR teenuse mitmekanalilise saatja spetsifikatsioon; Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 alusel
EN 303 084	Satelliitnavigatsiooni tugisüsteem (GBAS) VHF maa-õhk andmeedastus
EN 303 004	(VDB); Maapealsete seadmete tehnilised karakteristikud ja
	mõõtmismeetodid; Harmoneeritud standard direktiivi 2014/53/EL artikli
	3.2 alusel
EN 303 203	Lähitoimeseadmed (SRD); Raadiosagedusalas 2483,5 MHz kuni 2500
	MHz töötavad patsiendi keha meditsiinilised jälgimissüsteemid (MBANS);
	Harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete
	alusel
EN 303 213-1	Lennuvälja maapealse liikluse juhtimise täiustatud süsteem (A-SMGCS);
	Osa 1: Ühenduse spetsifikatsioon A-SMGCS järelevalve funktsioonile
WW 000 000 0	sealhulgas välisliidesed
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 303 405	Liikuv maaside; Analoog ja digital PMR446 seade; Harmoneeritud
E11 303 403	standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete alusel.
EN 303 520	Lähitoimeseadmed (SRD); Raadiosagedusalas 430 MHz kuni 440 MHz
111 000 020	töötavad väga väikese võimsusega (ULP) juhtmevabad meditsiinilised
	kapselendoskoopia seadmed; Raadiospektri juurdepääsu harmoneeritud
	standard
EN 303 687	6 GHz RLAN; Raadiospektrile juurdepääsu harmoneeritud standard
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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 põhinõuete alusel
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 303 980	Kosmoseside maajaamad ja süsteemid (SES); Saatesagedusel 11 GHz - 14 GHz mittegeostatsionaarorbiidil kosmoseside süsteemidega (NEST) suhtlevate statsionaarsete ja liikuvate maajaamade harmoneeritud standard direktiivi 2014/53/EL artikli 3.2 oluliste nõuete 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.

## XII. ETSI raportid

ETSI TR 102 837	Electromagnetic compatibility and Radio spectrum Matters (ERM);
	System Reference Document; Broadband Wireless Systems in the 2 300
	MHz to 2 400 MHz Range

#### XIII. COSPAS-SARSATi spetsifikatsioonid

C/S T.001	C/S T.001 Specification for Cospas-Sarsat 406 MHz Distress Beacons
C/S T.007	C/S T.007 Cospas-Sarsat 406 MHz Distress Beacons Type-Approval Standard
C/S T.012	C/S T.012 Cospas-Sarsat 406 MHz Frequency Management Plan
C/S T.018	C/S T.018 Specification for Second-Generation Cospas-Sarsat 406-MHz
	Distress Beacons

# XIV. ITU raadioeeskirjade artikli 5 allmärkused

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,
3.33	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 frequency bands 14-19.95 kHz and
3.30	20.05-70 kHz and in Region 1 also the frequency 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,
	Kyrgyzstan, Tajikistan and Turkmenistan, the frequencies 25 kHz and 50
	kHz will be used for this purpose under the same conditions. (WRC-23)
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, Kyrgyzstan, Tajikistan and Turkmenistan, the frequency band
	67-70 kHz is also allocated to the radionavigation service on a primary
	basis. (WRC-23)
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
E ( )	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 the maritime mobile
	service.
5.67A	Stations in the amateur service using frequencies in the band
	135.7-137.8 kHz 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, the Dem. People's Rep. of Korea 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
<i>5.5</i> 0	frequencies designated for ship stations on a worldwide basis. (WRC-19)
5.79	5.79 In the maritime mobile service, the frequency bands 415-495 kHz and
	505-526.5 kHz are limited to radiotelegraphy and may also be used for the
	NAVDAT system in accordance with the most recent version of
	Recommendation ITU-R M.2010, subject to agreement between interested
	and affected administrations. NAVDAT transmitting stations are limited to
5 70 A	coast stations. (WRC-19)
5.79A	When establishing coast stations in the NAVTEX service on the frequencies
	490 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
<b>7</b> 00 A	Resolution 339 (Rev.WRC-07). (WRC-07)
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
	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)
5.82C	The frequency band 495-505 kHz is used for the international NAVDAT system as described in the most recent version of Recommendation ITU-R M.2010. NAVDAT transmitting stations are limited to coast stations. (WRC-19)
5.82D	When establishing coast stations in the NAVDAT system on the frequencies 500 kHz and 4 226 kHz, the conditions for the use of the frequencies 500 kHz and 4 226 kHz are prescribed in Articles 31 and 52.  Administrations are strongly recommended to coordinate the NAVDAT systems operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution 364 (WRC-23)). (WRC-23)
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 1 605-1 705 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 1 606.5-1 625 kHz, 1 635 1 800 kHz, 1 850-2 160 kHz, 2 194-2 300 kHz, 2 502-2 850 kHz and 3 500-3 800 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, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, Tajikistan, Chad, Turkmenistan and Ukraine, the frequency bands 1 625-1 635 kHz, 1 800-1 810 kHz and 2 160-2 170 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 1 715-1 800 kHz and 1 850-2 000 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
7.00	amateur station shall not exceed 10 W. (WRC-15)
5.98	Alternative allocation: in Armenia, Azerbaijan, Belarus, Belgium,
	Cameroon, Congo (Rep. of the), Denmark, Eritrea, Spain, Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon,
	Lithuania, the Syrian Arab Republic, Türkiye, Kyrgyzstan, Somalia,
	Tajikistan, Tunisia and Turkmenistan, the frequency band 1 810-1 830 kHz
	is allocated to the fixed and mobile, except aeronautical mobile, services on
	a primary basis. (WRC-23)
5.100	In Region 1, the authorization to use the band 1 810-1 830 kHz by the
2.100	amateur service in countries situated totally or partially north of $40^{\circ}$ 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 2 025-2 045 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
	2 173.5-2 190.5 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 and 16 804.5 kHz are international distress frequencies for
	digital selective calling. The conditions for the use of these frequencies are
5.110	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 used for the automatic connection system
	(ACS), as described in the most recent version of Recommendation
	ITU-R M.541. (WRC-23)
5.111	The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and
0.111	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 2 300-2 495 kHz (2 498 kHz in
	Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the
	broadcasting service, see Nos. 5.16 to 5.20, 5.21 and 23.3 to 23.10.
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
F 116	service engaged in coordinated search and rescue operations. (WRC-07)
5.116	Administrations are urged to authorize the use of the band 3 155-3 195 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 4 000-4 063 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 4 063-4 123 kHz and 4 130-4 438 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, 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 frequency bands 4 063-4 123 kHz, 4 130-4 133 kHz and
	4 408-4 438 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 to the
	maritime mobile service. (WRC-19)
5.130	The conditions for the use of the carrier frequencies 4 125 kHz and
- 101	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.
5 122	(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 Appendices 15 and 17). (WRC-23)
5.132A	Stations in the radiolocation service shall not cause harmful interference to,
3.132A	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).
5.133	Different category of service: in Armenia, Azerbaijan, Belarus, the Russian
3.133	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)
5.133B	Stations in the amateur service using the frequency band
0,1202	5 351.5-5 366.5 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 5 351.5-5 366.5 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 countries and territories within the Kingdom of the
	Netherlands in Region 2, stations in the amateur service using the
	<u> </u>

	frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 25 W (e.i.r.p.). (WRC-19)
5.134	The use of the frequency bands 5 900-5 950 kHz, 7 300-7 350 kHz,
3.134	9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz,
	13 570-13 600 kHz, 13 800-13 870 kHz, 15 600 - 15 800 kHz,
	17 480-17 550 kHz and 18 900-19 020 kHz by the broadcasting service is
	subject to the application of the procedure of Article 12. Administrations
	are encouraged to use these frequency bands to facilitate the introduction
	of digitally modulated emissions in accordance with the provisions of
	Resolution 517 (Rev. WRC-19). (WRC-19)
5.136	Additional allocation: Frequencies in the band 5 900-5 950 kHz may be
	used by 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
3.137	service, the bands 6 200-6 213.5 kHz and 6 220.5-6 525 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
5 127 A	attention of the Bureau will be drawn to the above conditions.
5.137A	The frequencies 6 337.5 kHz, 8 443 kHz, 12 663.5 kHz, 16 909.5 kHz and
	22 450.5 kHz are the regional frequencies for the transmission of maritime
	safety information (MSI) by means of the NAVDAT system (see Appendices
7.120	15 and 17). (WRC-23)
5.138	The following bands: 6 765-6 795 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 this provision,
	administrations shall have due regard to the latest relevant ITU-R
	Recommendations.
5.143	Additional allocation: Frequencies in the band 7 300-7 350 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)
5.143B	In Region 1, frequencies in the band 7 350-7 450 kHz may be used by
3.143D	, , , , , , , , , , , , , , , , , , ,
	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)
5.145	The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz
3.173	and 16 420 kHz are prescribed in Articles 31 and 52. (WRC-07)
5.145A	Stations in the radiolocation service shall not cause harmful interference to,
3.143A	or claim protection from, stations operating in the fixed service.
	1 0 0
	Applications of the radiolocation service are limited to oceanographic
5.146	radars operating in accordance with Resolution 612 (Rev.WRC-12).  Additional allocation: Frequencies in the bands 9 400-9 500 kHz,
3.140	11 600-11 650 kHz, 12 050 12 100 kHz, 15 600-15 800 kHz,
	17 480-17 550 kHz and 18 900-19 020 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
5 1 45	published in accordance with the Radio Regulations. (WRC-07)
5.147	On condition that harmful interference is not caused to the broadcasting
	service, frequencies in the bands 9 775-9 900 kHz, 11 650-11 700 kHz and
	11 975-12 050 kHz may be used by stations in the fixed service
	communicating only within the boundary of the country in which they are
7.1.40	located, each station using a total radiated power not exceeding 24 dBW.
5.149	In making assignments to stations of other services to which the bands:
	13 360-13 410 kHz, 25 550-25 670 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, 1 330-1 400 MHz, 1 610.6-1 613.8 MHz,
	1 660-1 670 MHz, 1 718.8-1 722.2 MHz, 2 655-2 690 MHz,
	3 260-3 267 MHz, 3 332-3 339 MHz, 3 345.8-3 352.5 MHz,
	4 825-4 835 MHz, 4 950-4 990 MHz, 4 990-5 000 MHz,
	6 650-6 675.2 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
<i>E</i> 1 <i>E</i> 0	astronomy service (see Nos. 4.5 and 4.6 and Article 29). (WRC-07)
5.150	The following bands: 13 553-13 567 kHz (centre frequency 13 560 kHz),
	26 957-27 283 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), 2 400-2 500 MHz (centre frequency 2 450 MHz),
	5 725-5 875 MHz (centre frequency 5 800 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 13 570-13 600 kHz and 13 800-13 870 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	
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 14 250-14 350 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 18 068-18 168 kHz is also allocated to the fixed service on a primary basis for use within 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, Moldova, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the frequency band 21 850-21 870 kHz is also allocated to the aeronautical mobile (R) service on a primary basis. (WRC-23)
5.155A	In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Moldova, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the use of the frequency band 21 850-21 870 kHz by the fixed service is limited to provision of services related to aircraft flight safety. (WRC-23)
5.155B	The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.
5.156A	The use of the band 23 200-23 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety
5.157	The use of the band 23 350-24 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.
5.159A	The use of the frequency band 40-50 MHz by the Earth exploration-satellite service (active) shall be in accordance with the geographical area restrictions and the operational and technical conditions defined in Resolution 677 (WRC-23). 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-23)
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, Liechtenstein, Lithuania, Luxembourg, North Macedonia, 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-19)
5.162A	1 /
5.102A	Additional allocation: in Germany, Australia, Austria, Belgium, Bosnia and
	Herzegovina, China, Vatican, Korea (Rep. of), Denmark, Spain, Estonia,
	the Russian Federation, Finland, France, Indonesia, Ireland, Iceland, Italy,
	Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia,
	Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, the
	Dem. People's Rep. of Korea, the Czech Rep., the United Kingdom, Serbia,
	Slovenia, Sweden and Switzerland, the frequency 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 (Rev. WRC-23). (WRC-23)
5.163	Additional allocation: in Armenia, Belarus, the Russian Federation,
	Georgia, Kazakhstan, Latvia, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan,
	Turkmenistan and Ukraine, the frequency 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-19)
5.164	Additional allocation: in Albania, Algeria, Germany, Austria, Belgium,
	Bosnia and Herzegovina, Botswana, Bulgaria, Côte d'Ivoire, Croatia,
	Denmark, Spain, Estonia, Eswatini, Finland, France, Gabon, Greece,
	Hungary, 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, 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 bands 48.5-56.5 MHz and 58-68 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-19)
5.166A	Different category of service: in Austria, Cyprus, the Vatican, Croatia,
	Denmark, Spain, Finland, Hungary, Latvia, the Netherlands, the Czech
	Republic, the United Kingdom, Slovakia and Slovenia, the frequency band
	50.0-50.5 MHz is allocated to the amateur service on a primary basis.
	Stations in the amateur service in these countries shall not cause harmful
	interference to, or claim protection from, stations of the broadcasting, fixed
	and mobile services operating in accordance with the Radio Regulations in
	the frequency band 50.0-50.5 MHz in the countries not listed in this
	provision. For a station of these services, the protection criteria in No.
	5.169B shall also apply. In Region 1, with the exception of those countries
	listed in No. 5.169, wind profiler radars operating in the radiolocation
	service under No. 5.162A are authorized to operate on the basis of equality
	with stations in the amateur service in the frequency band 50.0 50.5 MHz.
	(WRC-19)
5.166B	In Region 1, stations in the amateur service operating on a secondary basis
	shall not cause harmful interference to, or claim protection from, stations of
	the broadcasting service. The field strength generated by an amateur

	station in Region 1 in the frequency band 50-52 MHz shall not exceed a
	calculated value of +6 $dB(\mu V/m)$ at a height of 10 m above ground for more
	than 10% of time along the border of a country with operational analogue
	broadcasting stations in Region 1 and of neighbouring countries with
	broadcasting stations in Region 3 listed in Nos. 5.167 and 5.168. (WRC-19)
5.166C	In Region 1, stations in the amateur service in the frequency band
3.1000	50-52 MHz, with the exception of those countries listed in No. 5.169, shall
	not cause harmful interference to, or claim protection from, wind profiler
5 1 C C E	radars operating in the radiolocation service under No. 5.162A. (WRC-19)
5.166E	In the Russian Federation, only the frequency band 50.080-50.280 MHz is
	allocated to the amateur service on a secondary basis. The protection
	criteria for the other services in the countries not listed in this provision are
	specified in Nos. 5.166B and 5.169B. (WRC-19)
5.169B	Except countries listed under No. 5.169, stations in the amateur service
	used in Region 1, in all or part of the 50-54 MHz frequency band, shall not
	cause harmful interference to, or claim protection from, stations of other
	services used in accordance with the Radio Regulations in Algeria,
	Armenia, Azerbaijan, Belarus, Egypt, Russian Federation, Iran (Islamic
	Republic of), Iraq, Kazakhstan, Kyrgyzstan, Libya, Uzbekistan, Palestine*,
	the Syrian Arab Republic, Sudan, Tunisia and Ukraine. The field strength
	generated by an amateur station in the frequency band 50-54 MHz shall not
	exceed a value of +6 $dB(\mu V/m)$ at a height of 10 m above ground for more
	than 10% of time along the borders of the countries listed in this provision.
	(WRC-19)
5.175	Alternative allocation: in Armenia, Belarus, the Russian Federation,
3.173	Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan
	and Ukraine, the frequency bands 68-73 MHz and 76-87.5 MHz are
	allocated to the broadcasting service on a primary basis. In Latvia and
	Lithuania, the frequency bands 68-73 MHz and 76 87.5 MHz are allocated
	to the broadcasting and mobile, except aeronautical mobile, services on a
	primary basis. In Mongolia, the frequency band 76-87.5 MHz is allocated
	to the broadcasting service on a primary basis; the stations of the
	broadcasting service shall not cause harmful interference to, or claim
	protection from, existing or planned fixed and mobile stations in the
	neighbouring countries. The services to which these frequency 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-23)
5.177	Additional allocation: in Armenia, Belarus, the Russian Federation,
	Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and
	Ukraine, the frequency band 73-74 MHz is also allocated to the
	broadcasting service on a primary basis, subject to agreement obtained
	under No. 9.21. (WRC-23)
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	
3.100	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 MHz and 75.2 MHz.
5.197A	Additional allocation: the frequency band 108-117.975 MHz is also
-	allocated on a primary 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-23). The use of the frequency 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-23)
5.198A	The use of the frequency band 117.975-137 MHz by the aeronautical
0117011	mobile-satellite (R) service is subject to coordination under No. 9.11A.
	No. 9.16 does not apply. Such use shall be limited to non geostationary-
	satellite systems operated in accordance with international aeronautical
	standards. Resolution 406 (WRC-23) applies. (WRC-23)
5.198B	The use of the frequency band 117.975-137 MHz by the aeronautical mobile
3.170 <b>D</b>	(R) service shall have priority over use by the aeronautical mobile-satellite
	(R) service. (WRC-23)
5.200	In the frequency band 117.975-137 MHz, the frequency 121.5 MHz is the
3.200	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 and the
	aeronautical mobile-satellite service. (WRC-23)
5.201	Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain,
3.201	Egypt, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic
	Republic of), Iraq (Republic of), Japan, Kazakhstan, Mali, Mongolia,
	Mozambique, Uzbekistan, Papua New Guinea, Poland, Qatar, Kyrgyzstan,
	Romania, Senegal, Somalia, Tajikistan and Turkmenistan, 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-23)
5.202	Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, the
J•202	United Arab Emirates, the Russian Federation, Georgia, Iran (Islamic
	Republic of), Jordan, Mali, Oman, Uzbekistan, Poland, the Syrian Arab
	Republic, Kyrgyzstan, Romania, Senegal, Tajikistan and Turkmenistan, 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-23)
5.203C	The use of the space operation service (space-to-Earth) with non-
3.203C	geostationary satellite short-duration mission systems in the frequency band
	137-138 MHz is subject to Resolution 660 (WRC-19). Resolution 32
	13/-130 M1112 is subject to Resolution 000 (WRC-19). Resolution 32

	(WRC-19) applies. These systems shall not cause harmful interference to, or claim protection from, the existing services to which the frequency band is allocated on a primary basis. (WRC-19)
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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 on a primary basis (see No. 5.33).
7.200	(WRC-2000)
5.208	The use of the band 137-138 MHz by the mobile-satellite service is subject
<b>7.200</b> A	to coordination under No. 9.11A. (WRC-97)
5.208A	In making assignments to space stations in the mobile-satellite service in
	the frequency bands 137-138 MHz, 387-390 MHz and 400.15-401 MHz and
	in the maritime mobile-satellite service (space-to-Earth) in the frequency
	bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz,
	administrations shall take all practicable steps to protect the radio
	astronomy service in the frequency bands 150.05-153 MHz, 322-328.6
	MHz, 406.1-410 MHz and 608-614 MHz from harmful interference from
	unwanted emissions as shown in the most recent version of
	Recommendation ITU-R RA.769. (WRC-19)
5.208B	In the frequency bands: 137-138 MHz, 157.1875-157.3375 MHz,
	161.7875-161.9375 MHz, 387-390 MHz, 400.15-401 MHz,
	1 452-1 492 MHz, 1 525-1 610 MHz, 1 613.8-1 626.5 MHz,
	2 655-2 690 MHz, 21.4-22 GHz, Resolution 739 (Rev.WRC-19) applies.
<b>7.000</b>	(WRC-19)
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
<b>7.00</b>	service is limited to non-geostationary-satellite systems. (WRC-97)
5.209A	The use of the frequency band 137.175-137.825 MHz by non-geostationary-
	satellite systems in the space operation service identified as short-duration
	mission in accordance with Appendix 4 is not subject to No. 9.11A.
	(WRC-19)
5.211	Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain,
	Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece,
	Guinea, Ireland, Israel, Kenya, Kuwait, Lebanon, Liechtenstein,
	Luxembourg, North Macedonia, 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
7.210	mobile services on a primary basis. (WRC-19)
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
F 310 A	transmission shall not exceed $\pm 25$ kHz.
5.218A	The frequency band 148-149.9 MHz in the space operation service (Earth-
	to-space) may be used by non-geostationary-satellite systems with short-
	duration missions. Non-geostationary-satellite systems in the space
	operation service used for a short-duration mission in accordance with
	Resolution 32 (WRC-19) of the Radio Regulations are not subject to
	agreement under No. 9.21. At the stage of coordination, the provisions of

	Nos. 9.17 and 9.18 also apply. In the frequency band 148-149.9 MHz, nongeostationary-satellite systems with short-duration missions shall not cause unacceptable interference to, or claim protection from, existing primary services within this frequency band, or impose additional constraints on the space operation and mobile-satellite services. In addition, earth stations in non-geostationary-satellite systems in the space operation service with short-duration missions in the frequency band 148-149.9 MHz shall ensure that the power flux-density does not exceed –149 dB (W/(m² · 4)) for more than 1% of time at the border of the territory of the following countries: Armenia, Azerbaijan, Belarus, China, Korea (Rep. of), Cuba, Russian Federation, India, Iran (Islamic Republic of), Japan, Kazakhstan, Malaysia, Uzbekistan, Kyrgyzstan, Thailand and Viet Nam. In case this power flux-density limit is exceeded, agreement under No. 9.21 is required to be obtained from countries mentioned in this footnote. (WRC-19)
5.219	The use of the frequency 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 frequency band 148-149.9 MHz. The use of the frequency band 148-149.9 MHz by non-geostationary-satellite systems in the space operation service identified as short-duration mission is not subject to No. 9.11A. (WRC-19)
5.220	The use of the frequency bands 149.9-150.05 MHz and 399.9-400.05 MHz by the 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, Eswatini, 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, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, 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, Türkiye, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Somalia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tonga, Trinidad and Tobago, Tunisia, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-23)
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( $\mu V/m$ ) 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 ( $N = -161 \text{ dBW/4 kHz}$ )), 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,
	150.7625-150.8375 MHz, 150.5125-150.3375 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
7.006	shall not be used without the agreement of 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.
	manume moone service for communications shall not exceed 1 m.

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
5.228AA	search and rescue operations and other safety-related communications.
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)
5.228AB	The use of the frequency bands 157.1875-157.3375 MHz and
0,220,12	161.7875-161.9375 MHz by the maritime mobile-satellite service (Earth-to-
	space) is limited to non-geostationary-satellite systems operating in
	accordance with Appendix 18. (WRC-19)
5.228AC	The use of the frequency bands 157.1875-157.3375 MHz and
	161.7875-161.9375 MHz by the maritime mobile-satellite service (space-to-
	Earth) is limited to non-geostationary-satellite systems operating in
	accordance with Appendix 18. Such use is subject to agreement obtained
	under No. 9.21 with respect to the terrestrial services in Azerbaijan,
	Belarus, China, Korea (Rep. of), Cuba, the Russian Federation, the Syrian
	Arab Republic, the Dem. People's Rep. of Korea, South Africa and Viet
7.000D	Nam. (WRC-19)
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.
5.228F	The use of the frequency bands 161.9625-161.9875 MHz and
3.22 <b>0</b> F	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-
3.233	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,
	1 1050 061 1611 1 1 1 1
	the frequency band 258-261 MHz is also allocated to the space research
	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

	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
0.200	service is limited to Instrument Landing Systems (glide path).
5.259	Additional allocation: in Egypt and the Syrian Arab Republic, the band
3.237	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)
5.260A	In the frequency band 399.9-400.05 MHz, the maximum e.i.r.p. of any
	emission of earth stations in the mobile-satellite service shall not exceed
	5 dBW in any 4 kHz band and the maximum e.i.r.p. of each earth station in
	the mobile-satellite service shall not exceed 5 dBW in the whole
	399.9-400.05 MHz frequency band. Until 22 November 2022, this limit
	shall not apply to satellite systems for which complete notification
	information has been received by the Radiocommunication Bureau by
	22 November 2019 and that have been brought into use by that date. After
	22 November 2022, these limits shall apply to all systems within the mobile-
	satellite service operating in this frequency band. In the frequency band
	399.99-400.02 MHz, the e.i.r.p. limits as specified above shall apply after
	22 November 2022 to all systems within the mobile-satellite service.
	Administrations are requested that their mobile-satellite service satellite
	links in the 399.99-400.02 MHz frequency band comply with the e.i.r.p.
	limits as specified above, after 22 November 2019. (WRC-19)
5.260B	In the frequency band 400.02-400.05 MHz, the provisions of No. 5.260A are
3.200B	not applicable for telecommand uplinks within the mobile-satellite service.
	(WRC-19)
5.261	Emissions shall be confined in a band of $\pm 25$ kHz about the standard
3.201	frequency 400.1 MHz.
5.262	
5.202	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.

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.
In the frequency band 401-403 MHz, the maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW in any 4 kHz band for geostationary-satellite systems and non-geostationary-satellite systems with
an orbit of apogee equal or greater than 35 786 km. The maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW in any 4 kHz band for non-geostationary-satellite systems with an orbit of apogee lower than 35 786 km. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW for geostationary-satellite systems and nongeostationary-satellite systems with an orbit of apogee equal or greater than 35 786 km in the whole 401-403 MHz frequency band. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW for nongeostationary-satellite systems with an orbit of apogee lower than 35 786 km in the whole 401-403 MHz frequency band. Until 22 November 2029, these limits shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2029, these limits shall apply to all systems within
the meteorological-satellite service and the Earth exploration-satellite service operating in this frequency band. (WRC-19)
Non-geostationary-satellite systems in the meteorological-satellite service
and the Earth exploration-satellite service for which complete notification information has been received by the Radiocommunication Bureau no later than 28 April 2007 are exempt from provisions of No. 5.264A and may continue to operate in the frequency band 401.898-402.522 MHz on a primary basis without exceeding a maximum e.i.r.p. level of 12 dBW. (WRC-23)
In the frequency band 403-410 MHz, Resolution 205 (Rev.WRC-19) applies. (WRC-19)
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)
Any emission capable of causing harmful interference to the authorised uses of the band 406-406.1 MHz is prohibited.
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 $0^{\circ} \le \delta \le 5^{\circ}$ , $-153 + 0.077$ ( $\delta - 5$ ) dB(W/m2) for $5^{\circ} \le \delta \le 70^{\circ}$ and $-148$ dB(W/m2) for $70^{\circ} \le \delta \le 90^{\circ}$ , where $\delta$ 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)
5.275	Additional allocation: in Croatia, Estonia, Finland, Libya, North
	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-19)
5.277	Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Cameroon,
	Congo (Rep. of the), Djibouti, the Russian Federation, Georgia, Hungary,
	Israel, Kazakhstan, Mali, Uzbekistan, Poland, the Dem. Rep. of the Congo,
	Kyrgyzstan, Slovakia, Romania, Rwanda, Tajikistan, Chad, Turkmenistan
	and Ukraine, the frequency band 430-440 MHz is also allocated to the fixed
	service on a primary basis. (WRC-19)
5.279A	The use of the frequency band 432-438 MHz by sensors in the Earth
	exploration-satellite service (active) shall be in accordance with
	Recommendation ITU-R RS.1260-2. Additionally, the Earth exploration-
	satellite service (active) in the frequency 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-19)
5.282	In the bands 435-438 MHz, 1 260-1 270 MHz, 2 400-2 450 MHz,
	3 400-3 410 MHz (in Regions 2 and 3 only) and 5 650-5 670 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 1 260-1 270 MHz and
	5 650-5 670 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
<b>7.00</b> 64	agreement obtained under No. 9.21.
5.286A	The use of the bands 454-456 MHz and 459-460 MHz by the mobile-
<b>7.0</b> 0644	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-19). 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-19)
5.287	Use of the frequency bands 457.5125-457.5875 MHz and
	467.5125-467.5875 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.1174-4. The use of these frequency bands in territorial waters is
	subject to the national regulations of the administration concerned.
	(WRC-19)
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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 1 690-1 710 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, 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 (Rev. WRC-23). (WRC-23)
5.295A	Additional allocation: in Albania, Germany, Andorra, Austria, Belgium,
	Bosnia and Herzegovina, Bulgaria, Cyprus, Vatican, Croatia, Denmark,
	Estonia, Finland, France, Georgia, Greece, Hungary, Ireland, Iceland,
	Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malta,
	Moldova, Monaco, Montenegro, Norway, Uzbekistan, Kingdom of the
	Netherlands, Poland, Portugal, Türkiye, Slovakia, the Czech Republic,
	Romania, the United Kingdom, San Marino, Serbia, Slovenia, Sweden,
	Switzerland and Ukraine, the frequency band 470-694 MHz is allocated to
	the mobile, except aeronautical mobile, service on a secondary basis,
	subject to agreement obtained under No. 9.21. For the protection of the
	broadcasting service, stations in the mobile service shall not create a field
	strength for more than 1% of the time at the highest of the clutter height or
	10 m above ground level at the border of the territory of any other
	administration that exceeds the field strength value as calculated using §
	4.1.3.2 of Annex 2 to the GE06 Agreement with regard to allowance for
	multiple interference, Table A.1.10 and the methodology given in the GE06
	Agreement. These limits may be exceeded on the territory of any country
	whose administration has so agreed. This allocation shall in no way
	adversely affect the broadcast development or undermine new entries of the
	broadcasting service to the GE06 Plan. (WRC-23)
5.296	Additional allocation: in Albania, Algeria, Germany, Angola, Saudi Arabia,
3.270	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, Eswatini, Finland, France, Gabon, Gambia, Georgia,
	Ghana, Hungary, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kenya,
	Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania,
	Luxembourg, North Macedonia, Malawi, Mali, Malta, Morocco, Mauritius,
	Mauritania, Moldova, Monaco, Mozambique, Namibia, Niger, Nigeria,
	Norway, Oman, Uganda, Palestine*, the Netherlands, Poland, Portugal,
	Qatar, the Syrian Arab Republic, Türkiye, Slovakia, the Czech Republic,
	Romania, the United Kingdom, Rwanda, San Marino, Senegal, Serbia,
	Sudan, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tunisia,
	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

	agus a haymful interference to existing on planned stations energing in
	cause harmful interference to existing or planned stations operating in
	accordance with the Table in countries other than those listed in this
<b>7.20</b> 6	footnote. (WRC-23)
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 radio astronomy service on a secondary basis.
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, and in
	Bulgaria the frequency bands 726-753 MHz, 778-811 MHz and
	822-852 MHz, are also allocated to the aeronautical radionavigation
	service on a primary basis. (WRC-23)
5.312A	In Region 1, the use of the frequency band 694-790 MHz by the mobile,
	except aeronautical mobile, service is subject to the provisions of
	Resolution 760 (Rev. WRC-23). See also Resolution 224 (Rev. WRC-23).
	(WRC-23)
5.312B	The frequency band 698-960 MHz, or portions thereof, in Region 2, and the
	frequency band 694-960 MHz, or portions thereof, in Region 1, are
	identified for use by high-altitude platform stations as International Mobile
	Telecommunications (IMT) base stations (HIBS). 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. Resolution 213 (WRC-23) shall apply. HIBS shall not
	claim protection from existing primary services. No. 5.43A does not apply,
	see resolves 2 of Resolution 213 (WRC-23). Such use of HIBS in the
	frequency bands 694 728 MHz, 830 835 MHz and 805.3-806.9 MHz is
	limited to reception by HIBS. (WRC-23)
5.316B	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 mobile service is also subject to
	the successful application of the procedures of that Agreement.
	Resolutions 224 (Rev. WRC-23) and 749 (Rev. WRC-23) shall apply, as
	appropriate. (WRC-23)
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-23),
	760 (Rev. WRC-23) and 749 (Rev. WRC-23), 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-23)
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
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	and is subject to special agreements between the administrations
	concerned.
5.323	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the frequency band 862-960 MHz, in Bulgaria the frequency bands 862-880 MHz and 915-925 MHz, and in Romania the frequency 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-19)
5.327A	The use of the frequency band 960-1 164 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 960-1 215 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
	1 164-1 215 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 960-1 215 MHz. No. 5.43A does not apply. The provisions of No. 21.18 shall apply. (WRC-07)
5.328AA	The frequency band 1 087.7-1 092.3 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 (Rev. WRC-19) shall apply. (WRC-19)
5.328B	The use of the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 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 1 215-1 300 MHz and 1 559-1 610 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 gatellite service (space to space) (WRC-07)
5.329	in the radionavigation-satellite service (space-to-space). (WRC-07)  Use of the radionavigation-satellite service in the frequency band 1 215-1 300 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 frequency band
	1 215-1 300 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 (Rev. WRC-19) shall apply. (WRC-19)
5.329A	Use of systems in the radionavigation-satellite service (space-to-space) operating in the bands 1 215-1 300 MHz and 1 559-1 610 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, Djibouti, 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, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania,
	Luxembourg, North Macedonia, Madagascar, Mali, Mauritania,
	Montenegro, Nigeria, Norway, Oman, Pakistan, Palestine*, the Kingdom of
	the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic,
	Türkiye, Dem. People's Rep. of Korea, Slovakia, the United Kingdom,
	Serbia, Slovenia, Somalia, Sudan, South Sudan, Sri Lanka, South Africa,
	Sweden, Switzerland, Thailand, Togo, Venezuela and Viet Nam, the
	frequency band 1 215-1 300 MHz is also allocated to the radionavigation
	service on a primary basis. In Canada and the United States, the frequency
	band 1 240-1 300 MHz is also allocated to the radionavigation service, and
	use of the radionavigation service shall be limited to the aeronautical
	radionavigation service. (WRC-23)
5.332	In the band 1 215-1 260 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)
5.332A	Administrations authorizing operation of the amateur and amateur-satellite
	services in the frequency band 1 240-1 300 MHz, or portions thereof, shall
	ensure that the amateur and amateur-satellite services do not cause harmful
	interference to radionavigation-satellite service (space-to-Earth) receivers
	in accordance with No. 5.29 (see the most recent version of
	Recommendation ITU-R M.2164). The authorizing administration, upon
	receipt of a report of harmful interference caused by a station of the
	amateur or amateur-satellite services, shall take all necessary steps to
	rapidly eliminate such interference. (WRC-23)
5.335A	In the band 1 260-1 300 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 1 300-1 350 MHz, 2 700-2 900 MHz and

	9 000-9 200 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 1 300-1 350 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 1 350-1 400 MHz, 1 427-1 452 MHz,
	22.55-23.55 GHz, 24.25-27.5 GHz, 30-31.3 GHz, 49.7-50.2 GHz,
	50.4-50.9 GHz, 51.4-52.4 GHz, 52.4-52.6 GHz, 81-86 GHz and 92-94 GHz,
	Resolution 750 (Rev.WRC-19) applies. (WRC-19)
5.339	The bands 1 370-1 400 MHz, 2 640-2 655 MHz, 4 950-4 990 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: 1 400-1 427 MHz,
	2 690-2 700 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 1 400-1 727 MHz, 101-120 GHz and 197-220 GHz, passive
	research is being conducted by some countries in a programme for the
7.241.4	search for intentional emissions of extraterrestrial origin
5.341A	In Region 1, the frequency bands 1 427-1 452 MHz and 1 492-1 518 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)
5.342	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian
3.542	Federation, Uzbekistan, Kyrgyzstan and Ukraine, the frequency band
	1 429-1 535 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
	1 452-1 492 MHz is subject to agreement between the administrations
	concerned. (WRC-15)
5.345	Use of the frequency band 1 452-1 492 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
	(Rev.WRC-19). (WRC-19)
5.348	The use of the band 1 518-1 525 MHz by the mobile-satellite service is
	subject to coordination under No. 9.11A. In the band 1 518-1 525 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)

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5.351	The bands 1 525-1 544 MHz, 1 545-1 559 MHz, 1 626.5-1 645.5 MHz and 1
	646.5-1 660.5 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 frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz,
	1 610-1 645.5 MHz, 1 646.5-1 660.5 MHz, 1 668-1 675 MHz,
	1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 520 MHz and
	2 670-2 690 MHz by the mobile-satellite service, see Resolutions 212
	(Rev. WRC-23) and 225 (Rev. WRC-23). (WRC-23)
5.353A	In applying the procedures of Section II of Article 9 to the mobile-satellite
0.00011	service in the frequency bands 1 530-1 544 MHz and 1 626.5-1 645.5 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 (Rev. WRC-23) shall apply. (WRC-23)
5.354	The use of the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz by the
	mobile-satellite services is subject to coordination under 9.11A.
5.356	The use of the band 1 544-1 545 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 1 545-1 555 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
0.00711	service in the frequency bands 1 545-1 555 MHz and 1 646.5-1 656.5 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-23) shall apply. (WRC-23)
5.359	Additional allocation: in Germany, Saudi Arabia, Armenia, Azerbaijan,
	Belarus, Cameroon, the Russian Federation, 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 and
	Turkmenistan, the frequency bands 1 550-1 559 MHz, 1 610-1 645.5 MHz
	and 1 646.5-1 660 MHz are also allocated to the fixed service on a primary
	and 1 0 10.3 1 000 11112 are also anocaled to the fixed service off 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-23)
5.364	The use of the band 1 610-1 626.5 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 1 613.8-1 626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under 9.11A.
5.366	The band 1 610-1 626.5 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 agreement obtained under No. 9.21.
5.367	Additional allocation: the bands 1 610-1 626.5 MHz is also allocated to the aeronautical mobile-satellite (R) service on a primary basis, subject to agreement obtained under No. 9.2
5.368	The provisions of No. 4.10 do not apply with respect to the radiodetermination-satellite and mobile-satellite services in the frequency band 1 610-1 626.5 MHz. However, No. 4.10 applies in the frequency band 1 610-1 626.5 MHz with respect to the aeronautical radionavigation-satellite service when operating in accordance with No. 5.366, the aeronautical mobile-satellite (R) service when operating in accordance with No. 5.367, and in the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see resolves 5 of Resolution 365 (WRC-23)) and 1 621.35-1 626.5 MHz with respect to the maritime mobile-satellite service when used for the global maritime distress and safety system (GMDSS). In applying the procedure of Section II of Article 9, the provisions of No. 4.10 do not apply for the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see resolves 5 of Resolution 365 (WRC-23)) and 2 483.59-2 499.91 MHz (space-to-Earth) for the maritime mobile-satellite service when used for the GMDSS with satellite networks or systems for which complete coordination information has been received by the Radiocommunication Bureau before 20 November 2023. Resolution 365 (WRC-23) applies. (WRC-23)
5.371	Additional allocation: in Region 1, the bands 1 610-1 626.5 MHz (Earth-to-space) is also allocated to the radiodetermination-satellite service on a secondary basis, 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 frequency band 1 610.6-1 613.8 MHz by stations of the

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	radiodetermination-satellite and mobile-satellite services (No. 29.13
	applies). The equivalent power flux-density (epfd) produced in the
	frequency band 1 610.6-1 613.8 MHz by all space stations of a non-
	geostationary-satellite system in the mobile-satellite service (space-to-
	Earth) operating in frequency band 1 613.8-1 626.5 MHz shall be in
	compliance with the protection criteria provided in Recommendations
	ITU-R RA.769-2 and ITU-R RA.1513-2, using the methodology given in
	Recommendation ITU-R M.1583-1, and the radio astronomy antenna
	pattern described in Recommendation ITU-R RA.1631-0. (WRC-19)
5.372A	The maritime mobile-satellite service in the frequency bands
	1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see
	resolves 5 of Resolution 365 (WRC-23)) and 2 483.59-2 499.91 MHz
	(space-to-Earth) when they are used for the global maritime distress and
	safety system (GMDSS) is limited to the geostationary-satellite networks
	identified in Resolution 365 (WRC-23) and their associated earth stations
	located within a service area from 75°E to 135°E longitude and from 10°N
<b>7.25</b> 2	to 55°N latitude. Resolution 365 (WRC-23) applies. (WRC-23)
5.373	Maritime mobile earth stations receiving in the frequency band
	1 621.35-1 626.5 MHz shall not impose additional constraints on earth
	stations operating in the maritime mobile-satellite service or maritime earth
	stations of the radiodetermination-satellite service operating in accordance
	with the Radio Regulations in the frequency band 1 610-1 621.35 MHz or
	on earth stations operating in the maritime mobile-satellite service
	operating in accordance with the Radio Regulations in the frequency band
	1 626.5-1 660.5 MHz, unless otherwise agreed between the notifying administrations. (WRC-19)
5.373A	Maritime mobile earth stations receiving in the frequency band
3.373A	1 621.35-1 626.5 MHz shall not impose constraints on the assignments of
	earth stations of the mobile-satellite service (Earth-to-space) and the
	radiodetermination-satellite service (Earth-to-space) in the frequency band
	1 621.35-1 626.5 MHz in networks for which complete coordination
	information has been received by the Radiocommunication Bureau before
	28 October 2019. (WRC-19)
5.374	Mobile earth stations in the mobile-satellite service operating in the bands
	1 631.5-1 634.5 MHz and 1 656.5-1 660 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 frequency band 1 645.5-1 646.5 MHz by the mobile-satellite
	service (Earth-to-space) and for inter-satellite links is limited to distress,
	urgency and safety communications (see Article 31). (WRC-23)
5.376	Transmissions in the band 1 646.5-1 656.5 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.
5.376A	Mobile earth stations operating in the band 1 660-1 660.5 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

	1 660.5-1 668.4 MHz for future research in radio astronomy, particularly
	by eliminating air-to-ground transmissions in the meteorological aids
	service in the band 1 664.4-1 668.4 MHz as soon as practicable.
5.379B	The use of the frequency band 1 668-1 675 MHz by the mobile-satellite
0.0.72	service is subject to coordination under No. 9.11A. (WRC-23)
5.379C	In order to protect the radio astronomy service in the band
3.3790	1 668-1 670 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 $-181 \text{ dB}(W/m^2)$ in $10 \text{ MHz}$ and $194 \text{dB}(W/m^2)$
	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 frequency band 1 668.4-1 675 MHz between the mobile-
	satellite service and the fixed and mobile services, Resolution 744
	(Rev.WRC-23) shall apply. (WRC-23)
5.379E	In the band 1 668.4-1 675 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 1
	668.4-1 675 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)
5 200 A	In the band 1 670-1 675 MHz, stations in the mobile-satellite service shall
5.380A	
	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, Lebanon, North Macedonia, Mauritania, Moldova,
	Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic,
	Kyrgyzstan, Somalia, Tajikistan, Turkmenistan, Ukraine and Yemen, the
	allocation of the frequency band 1 690-1 700 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 1 690-1 700 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-19)
5.384A	The frequency bands 1 710-1 885 MHz, 2 300-2 400 MHz and
3.30471	2 500-2 690 MHz, or portions thereof, are identified for use by
	administrations wishing to implement International Mobile
	Telecommunications (IMT) in accordance with Resolution 223 (Pay WPC 15) This identification does not proclude the use of these
	(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 1 718.8-1 722.2 MHz is also allocated to
	the radio astronomy service on a secondary basis for spectral line
	observations. (WRC-2000)

5.388	The frequency bands 1 885-2 025 MHz and 2 110-2 200 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-23) (see also Resolution 223
	(Rev.WRC-23)). (WRC-23)
5.388A	The frequency bands 1 710-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170
	MHz in Regions 1 and 3 and the frequency bands 1 710-1 980 MHz and
	2 110-2 160 MHz in Region 2 are identified for the use by high altitude
	platform stations as International Mobile Telecommunications (IMT) base
	stations (HIBS). 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.
	Resolution 221 (Rev. WRC-23) shall apply. HIBS shall not claim protection
	from existing primary services. No. 5.43A does not apply. Such use of HIBS
	in the frequency bands 1 710-1 785 MHz in Regions 1 and 2, and
	1710-1815 MHz in Region 3 is limited to reception by HIBS, and in the
	frequency band 2 110-2 170 MHz is limited to transmission from HIBS.
	(WRC-23)
5.389A	The use of the frequency bands 1 980-2 010 MHz and 2 170-2 200 MHz by
	the mobile-satellite service is subject to coordination under No. 9.11A and
	to the provisions of Resolution 716 (Rev. WRC-23). (WRC-23)
5.391	In making assignments to the mobile service in the frequency bands
	2 025-2 110 MHz and 2 200-2 290 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 2 025-2 110 MHz and 2 200-2 290 MHz, shall
	not impose any constraints on Earth-to-space, space-to-Earth and other
	space-to-space transmissions of those services and in those bands between
	geostationary and non-geostationary satellites.
5.398	In respect of the radiodetermination-satellite service in the band
	2 483.5-2 500 MHz, the provisions of No. 4.10 do not apply.
5.398A	Different category of service: In Armenia, Azerbaijan, Belarus, the Russian
5.570A	Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine,
	the band 2 483.5-2 500 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 2 483.5-2 500 MHz. (WRC-12)
5.399	Except for cases referred to in No. 5.401, stations of the
3.377	
	radiodetermination-satellite service operating in the frequency band
	2 483.5-2 500 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 2 483.5-2 500 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 2 483.5-2 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 990-5 000 MHz band allocated to the radio astronomy service worldwide.
5.409A	The frequency band 2 500-2 690 MHz in Regions 1 and 2, and the frequency band 2 500-2 655 MHz in Region 3 are identified for use by high-altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). 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. Resolution 218 (WRC-23) shall apply. HIBS shall not claim protection from existing primary services. No. 5.43A does not apply. Such use of HIBS in the frequency bands 2 500-2 510 MHz in Regions 1 and 2, and 2 500-2 535 MHz in Region 3 is limited to reception by HIBS. (WRC-23)
5.410	The band 2 500-2 690 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)
5.413	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 2 690-2 700 MHz.
5.416	The use of the band 2 520-2 670 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)
5.418B	Use of the band 2 630-2 655 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 2 630-2 655 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-satellite service (sound), pursuant to No. 5.418 and No. 22.2 does not apply. (WRC-03)
5.420	The band 2 655-2 670 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)

5.423	In the band 2 700-2 900 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 2 900-3 100 MHz, stations in the radiolocation service shall not
	cause harmful interference to, nor claim protection from, radar systems in
	the radionavigation service. (WRC-03)
5.425	In the band 2 900-3 100 MHz, the use of the shipborne interrogator-
	transponder system (SIT) shall be confined to the sub-band
	2 930-2 950 MHz.
5.426	The use of the band 2 900-3 100 MHz by the aeronautical radionavigation
	service is limited to ground-based radars.
5.427	In the bands 2 900-3 100 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 3 400-3 600 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
	$(W/(m^2 \cdot 4 \text{ kHz}))$ 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 and 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
	3 400-3 600 MHz shall not claim more protection from space stations than
	that provided in Table 21 4 of the Radio Regulations (Edition of 2004).
5 12 1 A	(WRC-15)
5.434A	The use of the frequency band 3 600-3 800 MHz by the mobile, except
	aeronautical mobile, service on a primary basis in Region 1 is subject to
	agreement obtained under No. 9.21 if the power flux-density (pfd) limit
	below is exceeded. The provisions of Nos. 9.17 and 9.18 shall also apply in
	the coordination phase. Before an administration in Region 1 brings into
	use a station in the mobile service in the frequency band 3 600-3 800 MHz,
	for the protection of stations in the fixed and fixed-satellite services, it shall
	ensure that the pfd produced at 3 m above ground does not exceed
	$-154.5 dB(W/(m^2 \cdot 4 \text{ kHz}))$ for more than 20% of the time at the border of
	the territory of any other administration. Stations in the mobile service
	operating in the frequency band 3 600-3 800 MHz shall not claim more

	protection from space stations than that provided in Table 21 4 of the Radio Regulations. (WRC-23)
5.436	Use of the frequency band 4 200-4 400 MHz by stations in the aeronautical mobile (R) service is reserved exclusively for wireless avionics intracommunication systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 424 (Rev. WRC-23). (WRC-23)
5.437	Passive sensing in the Earth exploration-satellite and space research services may be authorized in the frequency band 4 200-4 400 MHz on a secondary basis. (WRC-15)
5.438	Use of the frequency band 4 200-4 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. (WRC-15)
5.440	The standard frequency and time signal-satellite service may be authorised to use the frequency 4 202 MHz for space-to-Earth transmissions and the frequency 6 427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of $\pm 2$ MHz of these frequencies, subject to agreement obtained under No. 9.21
5.441	The use of the bands 4 500-4 800 MHz (space-to-Earth), 6 725-7 025 MHz (Earth-to-space) 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 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 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 system in the fixed-satellite service. Non-geostationary-satellite system 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 system 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)
5.441B	In Angola, Argentina, Armenia, Azerbaijan, Benin, Botswana, Brazil, Burkina Faso, Burundi, Cabo Verde, Cambodia, Cameroon, Chile, China, Colombia, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Eswatini, Russian Federation, Gabon, Ghana, Guinea, Iran (Islamic Republic of), Iraq, Kazakhstan, Lao P.D.R., Lesotho, Liberia, Madagascar, Malawi, Mali, Mongolia, Namibia, Niger, Uganda, Uzbekistan, the Dem. Rep. of the Congo, Kyrgyzstan, the Dem. People's Rep. of Korea, South Sudan, South Africa, Chad, Togo, Viet Nam, Zambia and Zimbabwe, the frequency band 4 800-4 990 MHz, or portions thereof, is identified for use by administrations wishing to implement 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 use of IMT stations is subject to agreement obtained under No. 9.21 with concerned administrations, and IMT stations shall not claim protection from stations of other applications of the mobile service. In addition, before an administration brings into use an IMT station in the mobile service, it shall ensure that the power flux-density (pfd) produced by this station does not exceed –155 dB(W/(m² · 1 MHz)) produced up to 19 km above sea level at 20 km from the coast, defined as the low-water mark, as officially recognized by the coastal State. Resolution 223 (Rev.WRC-23) applies. (WRC-23)
5.442	<i>In the frequency bands 4 825-4 835 MHz and 4 950-4 990 MHz, the</i>
	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 4 825-4 835 MHz is also allocated to the aeronautical mobile service, limited to aeronautical mobile telemetry for flight testing by aircraft stations. Such use shall be in accordance with Resolution 416
	(WRC-07) and shall not cause harmful interference to the fixed service. (WRC-15)
5.443AA	In the frequency bands 5 000-5 030 MHz and 5 091-5 150 MHz, the aeronautical mobile-satellite (R) service is subject to agreement obtained under No. 9.21. The use of these bands by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems.
5.443B	In order not to cause harmful interference to the microwave landing system operating above 5 030 MHz, the aggregate power flux-density produced at the Earth's surface in the frequency band 5 030-5 150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the frequency band 5 010-5 030 MHz shall not exceed –124.5 dB(W/m²) in a 150 kHz band. In order not to cause harmful interference to the radio astronomy service in the frequency band 4 990-5 000 MHz, radionavigation-satellite service systems operating in the frequency band 5 010-5 030 MHz shall comply with the limits in the frequency band 4 990-5 000 MHz defined in Resolution 741 (Rev.WRC-15). (WRC-15)
5.443C	The use of the frequency band 5 030-5 091 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 5 030-5 091 MHz shall be limited to protect RNSS system downlinks in the adjacent 5 010-5 030 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 5 010-5 030 MHz for any AM(R)S station unwanted emission should be used. (WRC-12)
5.443D	In the frequency band 5 030-5 091 MHz, the aeronautical mobile-satellite (R) 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 5 030-5 150 MHz is to be used for the operation of the international standard system (microwave landing system) for precision

	approach and landing. In the frequency band 5 030-5 091 MHz, the requirements of this system shall have priority over other uses of this frequency band. For the use of the frequency band 5 091-5 150 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 5 091 5 150 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 5 091-5 150 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 5 091-5 150 MHz by the aeronautical mobile service 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-19);
	– aeronautical telemetry transmissions from aircraft stations (see No. 1.83) in accordance with Resolution 418 (Rev.WRC-19). (WRC-19)
5.446	Additional allocation: in the countries listed in No. 5.369, the frequency band 5 150-5 216 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 1 610-1 626.5 MHz and/or 2 483.5-2 500 MHz. The total power flux-density at the Earth's surface shall in no case exceed -159 dB(W/m²) in any 4 kHz band for all angles of arrival. (WRC-15)
5.446A	The use of the frequency bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution 229 (Rev. WRC-23). (WRC-23)
5.446B	In the band 5 150-5 250 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. (WRC-03)
5.446C	Additional allocation: in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Iraq, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Syrian Arab Republic, Sudan, South Sudan and Tunisia), the frequency band 5 150-5 250 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 (Rev.WRC-19). These stations shall not claim

	protection from other stations operating in accordance with Article 5. No.
	5.43A does not apply. (WRC-19)
5.447A	The allocation to the fixed-satellite service (Earth-to-space) is limited to
	feeder 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 5 150-5 216 MHz is also allocated to the
	fixed-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
	5 150-5 216 MHz shall in no case exceed $-164 dB(W/m^2)$ in any 4 kHz
5 447D	band for all angles of arrival.  The allegation of the band 5 250 5 255 MHz to the angle against against
5.447D	The allocation of the band 5 250-5 255 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 5 250-5 350 MHz, stations in the mobile service shall
J.TT / 1'	not claim protection from the radiolocation service, the Earth exploration-
	satellite service (active) and the space research service (active). The
	radiolocation service, the Earth exploration-satellite service (active) and
	the space research service (active) shall not impose more stringent
	conditions upon the mobile service than those stipulated in Resolution 229
	(Rev. WRC-23). (WRC-23)
5.448A	The Earth exploration-satellite (active) and space research (active) services
	in the frequency band 5 250-5 350 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
	5 350-5 570 MHz and space research service (active) operating in the band
	5 460-5 570 MHz shall not cause harmful interference to the aeronautical
	radionavigation service in the band 5 350-5 460 MHz, the radionavigation service in the band 5 460-5 470 MHz and the maritime radionavigation
	service in the band 5 470-5 570 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	<i>In the frequency band 5 350-5 470 MHz, stations in the radiolocation</i>
	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. (WRC-03)
5.449	The use of the band 5 350-5 470 MHz by the aeronautical radionavigation
	service is limited to airborne radars and associated airborne beacons.
5.450A	In the frequency band 5 470-5 725 MHz, stations in the mobile service shall
	not claim protection from radiodetermination services. The
	radiodetermination services shall not impose more stringent conditions
	upon the mobile service than those stipulated in Resolution 229 (Rev. WRC-23) (WRC-23)
5.450B	(Rev. WRC-23). (WRC-23)  In the frequency band 5 470-5 650 MHz, stations in the radiolocation
J.43UD	service, except ground-based radars used for meteorological purposes in
	the band 5 600-5 650 MHz, shall not cause harmful interference to, nor
	claim protection from, radar systems in the maritime radionavigation
	service. (WRC-03)
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5.452	Between 5 600 MHz and 5 650 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, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the
	band 5 670-5 725 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
3.433	Federation, Georgia, Hungary, Kazakhstan, Moldova, Uzbekistan,
	Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the frequency
	band 5 670-5 850 MHz is also allocated to the fixed service on a primary
	basis. (WRC-19)
5.457A	In the frequency bands 5 925-6 425 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
	(Rev. WRC-23). In the frequency band 5 925-6 425 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
	Resolution 902 (Rev. WRC-23) shall apply. (WRC-23)
5.457E	The frequency bands 6 425-7 125 MHz in Region 1 and 7 025-7 125 MHz in
0.10.72	Region 3 are identified for use by administrations wishing to implement the
	terrestrial component of International Mobile Telecommunications (IMT).
	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. Resolution 220 (WRC-23)
	applies. The frequency bands are also used for the implementation of
	wireless access systems (WAS), including radio local area networks
7.450	(RLANs). (WRC-23)
5.458	In the band 6 425-7 075 MHz, passive microwave sensor measurements are
	carried out over the oceans. In the band 7 075-7 250 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
	6 425-7 025 MHz and 7 075-7 250 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 6 650-6 675.2 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 6 700-7 075 MHz (space-to-Earth) by feeder
	links for non-geostationary satellite systems in the mobile-satellite service
	is not subject to No. 22.2.
5.459	
3.437	Additional allocation: in the Russian Federation, the frequency bands
	7 100-7 155 MHz and 7 190-7 235 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 7 190-7 235 MHz, with
	respect to the Earth exploration-satellite service (Earth-to-space), No. 9.21
	does not apply. (WRC-15)
5.460	No emissions from space research service (Earth-to-space) systems
	intended for deep space shall be effected in the frequency band
	7 190-7 235 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
7.460.4	and No. 5.43A does not apply. (WRC-15)
5.460A	The use of the frequency band 7 190-7 250 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 7 190-7 250 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
	7 190-7 235 MHz shall not claim protection from existing and future
	stations of the space research service, and No. 5.43A does not apply.
	(WRC-15)
5.461	Additional allocation: the frequency bands 7 250-7 375 MHz (space-to-
	Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the
	mobile-satellite service on a primary basis, subject to agreement obtained
	under No. 9.21, with the exception that No. 9.21 shall not apply to the
	geostationary-satellite networks in the mobile-satellite service for which
	complete coordination information is received by the Bureau as of
	1 January 2025 with respect to non-geostationary-satellite systems for
	which complete coordination or notification information, according to the
	case, is received by the Bureau as of 1 January 2025. Non-geostationary-satellite systems for which complete coordination or notification
	information, according to the case, is received by the Bureau as of
	I January 2025 shall not cause unacceptable interference to and shall not
	claim protection from geostationary-satellite networks in the mobile-
	satellite service operating in accordance with these Regulations. No. 5.43A
	does not apply. (WRC-23)
5.461A	The use of the band 7 450-7 550 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)
5.461AA	The use of the frequency band 7 375-7 750 MHz by the maritime mobile-
	satellite service is limited to geostationary-satellite networks. (WRC-15)
5.461AB	In the frequency band 7 375-7 750 MHz, earth stations in the maritime
	mobile-satellite service shall not claim protection from, nor constrain the
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	use and development of, stations in the fixed and mobile, except
	aeronautical mobile, services. No. 5.43A does not apply. (WRC-15)
5.461AC	In the frequency band 7 375-7 750 MHz, non-geostationary-satellite
	systems operating in the fixed-satellite service for which complete
	coordination or notification information, according to the case, is received
	by the Bureau as of 1 January 2025 shall not cause unacceptable
	interference to and shall not claim protection from geostationary-satellite
	networks in the maritime mobile-satellite service operating in accordance
	with these Regulations. No. 5.43A does not apply. (WRC-23)
5.461B	The use of the band 7 750-7 900 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 8 025-8 400 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 $(\theta)$ , without the consent of
	the affected administration:
	$-135 \ dB(W/m^2)$ in a 1 MHz band for $0 \le \theta < 5^{\circ}$
	$-135 + 0.5 (\theta - 5) dB(W/m^2)$ in a 1 MHz band for $5 \le \theta < 25^{\circ}$
	$-125 \ dB(W/m^2)$ in a 1 MHz band for $25 \le \theta \le 90^{\circ}$ (WRC-12)
5.463	Aircraft stations are not permitted to transmit in the band
	8 025-8 400 MHz. (WRC-97)
5.465	5.465 In the space research service, the use of the band 8 400-8 450 MHz is
	limited to deep space.
5.469	Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian
	Federation, Georgia, Hungary, Lithuania, Uzbekistan, Poland, Kyrgyzstan,
	the Czech Rep., Romania, Tajikistan, Turkmenistan and Ukraine, the
	frequency band 8 500-8 750 MHz is also allocated to the land mobile and
	radionavigation services on a primary basis. (WRC-23)
5.469A	In the band 8 550-8 650 MHz, stations in the Earth exploration-satellite
	service (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 8 750-8 850 MHz by the aeronautical radionavigation
	service is limited to airborne Doppler navigation aids on a centre frequency
	of 8 800 MHz.
5.472	In the bands 8 850-9 000 MHz and 9 200-9 225 MHz, the maritime
	radionavigation service is limited to shore-based radars.
5.473	Additional allocation: in Armenia, Austria, Azerbaijan, Belarus, Cuba, the
	Russian Federation, Georgia, Hungary, Uzbekistan, Poland, Kyrgyzstan,
	Romania, Tajikistan, Turkmenistan and Ukraine, the frequency bands
	8 850-9 000 MHz and 9 200-9 300 MHz are also allocated to the
	radionavigation service on a primary basis. (WRC-19)
5.473A	In the band 9 000-9 200 MHz, stations operating in the radiolocation
	service shall 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 9 200-9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article 31).  The use of the frequency bands 9 200-9 300 MHz and 9 900-10 400 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 9 300-9 900 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 with Recommendation ITU-R RS.2066-0. (WRC-15)  5.474C Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2065-0. (WRC-15)  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 9 900-10 000 MHz and the radiolocation service in the frequency band 9 900-10 000 MHz and the radiolocation service in the frequency band 10.0-10.4 GHz. (WRC-15)  The use of the band 9 300-9 500 MHz by the aeronautical radionavigation service are permitted in the band 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service are permitted in the band 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service (active) and the space research service (active) is limited to systems requiring necessary ba
The use of the frequency bands 9 200-9 300 MHz and 9 900-10 400 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 9 300-9 900 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 with Recommendation ITU-R RS.2066-0. (WRC-15)  5.474C Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2065-0. (WRC-15)  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 9 200-9 300 MHz, the radionavigation and radiolocation services in the frequency band 9 900-10 000 MHz and the radiolocation service in the frequency band 10.0-10.4 GHz. (WRC-15)  5.475 The use of the band 9 300-9 500 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 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 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service (active) and the space research service (active) is limited to systems requirin
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requiring necessary bandwidth greater than 300 MHz that cannot be fully
accommodated within the 9 500-9 800 MHz band. (WRC-07)
<b>5.475B</b> In the band 9 300-9 500 MHz, stations operating in the radiolocation
service shall 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)
<b>5.476A</b> In the band 9 300-9 800 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 9 800-9 900 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 allocated on a secondary basis.
<b>5.478B</b> The use of the band 9 800-9 900 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 9 300-9 800 MHz band.

5.479	The band 9 975-10 025 MHz is also allocated to the meteorological-
	satellite service 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, except aeronautical
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5 492 A	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
- 4C :	mobile, services, 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
	(Earth-to-space) is limited to feeder links for the oadcasting-satellite
	service.
5.484A	The use of the frequency bands 10.95-11.2 GHz (space-to-Earth),
	11.45-11.7 GHz (space-to-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 (Earth-to-space),
	17.3-17.7 GHz (space-to-Earth) in Region 2, 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
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	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. In
	Region 2, No. 22.2 shall continue to apply in the frequency band 17.3-17.7
	GHz. (WRC-23)
5.484B	Resolution 155 (WRC-15) shall apply. (WRC-15)
5.487	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,
	and carea to the farea satellite service (space to Dutth) on a primary ousts,

	limited to non-geostationary 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
5 40CA	with the Plan or the List, as appropriate. (WRC-2000)
5.496A	The frequency band 12.75-13.25 GHz (Earth-to-space) may be used by earth stations in motion, limited to earth stations on aircraft and vessels,
	communicating with geostationary space stations in the fixed-satellite
	service. Resolution 121 (WRC-23) shall apply. (WRC-23)
5.497	The use of the band 13.25-13.4 GHz by the aeronautical radionavigation
7. 400 A	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)
5.499A	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 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)
5.499C	The allocation of the frequency band 13.4-13.65 GHz to the space research
	service 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,

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<ul> <li>active spaceborne sensors,</li> <li>satellite systems operating in the space research service (space-to-Earth)</li> </ul>
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)
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)
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 use and development of, the radiolocation service. (WRC-97)
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) $\frac{115}{4}$ $\frac{dP(W/(w^2 + 10 MH^2))}{dP(W/(w^2 + 10 MH^2))}$ for more than 10% of the time model and
1) $-115 dB(W/(m^2 \cdot 10 MHz))$ 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) $-115 dB(W/(m^2 \cdot 10 MHz))$ 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
emission should be at least 68 dBW and should not exceed 85 dBW.
(WRC-03)
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 $1.2 \text{ m}$ and less than $4.5 \text{ m}$ ;
	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 $4.5 \text{ m}$ and less than $31.9 \text{ m}$ ;
	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 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 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)
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 links is reserved for countries outside Europe.
5.506A	In the frequency band 14-14.5 GHz, ship earth stations with an equivalent isotropically radiated power (e.i.r.p.) greater than 21 dBW shall operate under the same conditions as earth stations located on board vessels, as provided in Resolution 902 (Rev. WRC-23). 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-23)
5.509B	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 is limited to geostationary-satellites. (WRC-15)

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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 $-44.5 \text{ dBW/Hz}$ 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 $-151.5  dB(W/(m^2 \cdot 4  kHz))$
	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)
5.510	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)
5.510A	The allocation of the frequency band 14.8-15.35 GHz to the space research
J.J1UA	service on a primary basis is limited to satellite systems operating in the
	service on a primary vasis is unitied to saterifie systems operating in the

	space-to-space, space-to-Earth and Earth-to-space directions at distances from the Earth of less than $2 \times 10^6$ km in accordance with Resolution 678 (WRC-23). Other uses of the frequency band by the space research service
	are on a secondary basis. The use of the frequency band 14.8-15.35 GHz by
	the space research service (space-to-Earth) (Earth-to-space) is on a
	secondary basis with respect to the terrestrial services in Algeria, Saudi
	Arabia, Bahrain, Korea (Rep. of), Egypt, the United Arab Emirates, the United States, India, Iraq, Japan, Kuwait, Libya, Morocco, Mauritania,
<b>- - - - - - - - - -</b>	Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen. (WRC-23)
5.511A	Use of the frequency band 15.43-15.63 GHz by the fixed-satellite service (Earth-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 Recommendation ITU-R S.1340-0. (WRC-15)
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
	$-156  dB(W/(m^2))$ in a 50 MHz bandwidth in the frequency band
	15.35-15.4 GHz, at any radio astronomy observatory site for more than 2
	per cent of the time. (WRC-12)
5.511G	Stations in the aeronautical mobile (OR) service operating in the frequency
	band 15.41-15.7 GHz shall not cause harmful interference to the radio
	astronomy service operating in the frequency band 15.35-15.4 GHz. The
	aggregate power flux-density (pfd) received from stations in the
	aeronautical mobile (OR) service operating in the frequency band
	15.41-15.7 GHz at any radio astronomy station operating in the frequency
	band 15.35-15.4 GHz shall be in compliance with the protection criteria
	provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2,
	unless specifically agreed by the affected administration(s). (WRC-23)
5.512	Additional allocation: in Algeria, Saudi Arabia, Austria, Bahrain,
	Bangladesh, 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 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
3.310	fixed-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. (WRC-03)
5.516B	The following bands are identified for use by high-density applications in
	the fixed-satellite service:
	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 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 frequency bands by
	other fixed-satellite service applications or by other services to which these
	frequency bands are allocated on a co-primary basis and does not establish
	priority in these Radio Regulations among users of the frequency bands.

	Administrations should take this into account when considering regulatory provisions in relation to these frequency bands. See Resolution 143 (Rev.WRC-19).
5.517A	The operation of earth stations in motion communicating with
3.317A	geostationary fixed-satellite service space stations within the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) shall be subject to the application of Resolution 169 (Rev.WRC-23). (WRC-23)
5.517B	The operation of aeronautical and maritime earth stations in motion
	communicating with non-geostationary space stations in the fixed-satellite service in the frequency bands 17.7-18.6 GHz, 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) shall be subject to the application of Resolution 123 (WRC-23).
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-07)
5.520	The use of the band 18.1-18.4 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcasting-satellite service. (WRC-2000)
5.521A	For use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz and
	27.5-30 GHz, or parts thereof, by space stations in the inter-satellite service, Resolution 679 (WRC-23) shall apply. Such use is limited to space research, space operation and/or Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space. When using these frequencies, administrations shall ensure that this inter-satellite service is used only for the aforementioned purposes and is not subject to coordination under No. 9.11A. For use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz, 27.5-29.1 GHz and 29.5-30 GHz by space stations, the allocation is limited to inter-satellite links between non-geostationary satellites or between non-geostationary satellites and geostationary satellites. For use of the frequency band 29.1-29.5 GHz by space stations, the allocation is limited to inter-satellite links between non-geostationary satellites and geostationary satellites. No. 4.10 does not apply. (WRC-23)
5.522A	The emissions of the fixed service and the fixed-satellite service in the band 18.6-18.8 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
5 522D	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 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. (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)
5.523DA	In order to protect feeder links of non-geostationary networks in the
	mobile-satellite service in the frequency band 19.3-19.7 GHz, the power flux-density values produced at the surface of the Earth for all angles of arrival by a space station in the inter-satellite service operating in this band in accordance with Resolution 679 (WRC-23) shall not exceed –140 dB(W/m2) in any 1 MHz within 150 km of any of the above feeder-link
	earth stations recorded in the Master International Frequency Register. (WRC-23)
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 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
	20.1-20.2 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
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	not apply with respect to the mobile-satellite service.

5.527A	The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (Rev. WRC-23). (WRC-23)
5.528	The allocation to the mobile-satellite service is intended for use by networks
3.320	which use narrow spot-beam antennas and other advanced technology at
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	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.
5.529A	In the frequency bands 20.2-21.2 GHz and 30-31 GHz, non-geostationary-
	satellite systems for which complete coordination or notification
	information, according to the case, is received by the Bureau as of
	1 January 2025 shall not cause unacceptable interference to and shall not
	claim protection from geostationary-satellite networks in the mobile-
	satellite service operating in accordance with these Regulations. No. 5.43A
	does not apply. (WRC-23)
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 $-120.4  dB(W/(m^2 \cdot MHz))$ 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
3.300B	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)
5.531A	The use of the aeronautical mobile (OR) service in the frequency band
3.33111	22-22.2 GHz is limited to non-safety applications. (WRC-23)
5.531B	Aircraft stations in the aeronautical mobile (OR) service operating in the
3.331D	frequency band 22-22.2 GHz are subject to agreement obtained under No.
	9.21 with respect to the fixed service and shall not cause harmful
	interference to, nor claim protection from, the fixed service. The following
	power flux-density values shall be used as a threshold for coordination
	under No. 9.21:
	$-110 \ dB(W/(m^2 \cdot MHz)) \ for \ 0^\circ \le \theta \le 12.6^\circ$
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$0.87 \theta - 116 dB(W/(m^2 \cdot MHz))$ for $15^{\circ} < \theta \le 30^{\circ}$
	$0.067 \theta - 92 dB(W/(m^2 \cdot MHz)) \text{ for } 30^\circ < \theta \le 90^\circ$
	where $\theta$ is the angle of arrival of the incident wave above the horizontal
	plane, in degrees.  This pritorious should be applied at the houder of the touritory of greather.
	This criterion should be applied at the border of the territory of another
	administration for any aircraft station located at an altitude of up to 15 km
	above the ground. In conducting the calculations, the most recent version of
	Recommendation ITU-R P.525 should be used. (WRC-23)
5.531C	Stations in the aeronautical mobile (OR) service operating in the frequency
	band 22-22.2 GHz shall not cause harmful interference to the radio
	astronomy service operating in the frequency band 22.21-22.5 GHz. The
	aggregate power flux-density (pfd) received from these stations at any radio

	astronomy station operating in the frequency band 22.21-22.5 GHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the
	affected administration(s). (WRC-23)
5.531D	The use of the aeronautical mobile (OR) service in the frequency band
	22-22.2 GHz outside national boundaries shall not cause harmful
	interference to, or claim protection from, services in other countries
	operating in accordance with the Table of Frequency Allocations.
	(WRC-23)
5.531F	In order to protect stations of the Earth exploration-satellite service
	(passive) operating in the frequency band 22.21-22.5 GHz, the unwanted
	equivalent isotropically radiated power (e.i.r.p.) of stations operating in the
	aeronautical mobile (OR) service shall not exceed -23 dBW in any
	100 MHz band in the frequency band 22.21-22.5 GHz. (WRC-23)
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.
5.532AB	The frequency band 24.25-27.5 GHz is identified for use by administrations
	wishing to implement the terrestrial component of 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.
	Resolution 242 (Rev.WRC-23) applies. (WRC-23)
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 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 the most
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	recent version of Recommendation ITU-R SA.1862. Resolution 242
	(Rev.WRC-23) applies. (WRC-23)
5.536B	In Algeria, Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland,
	Hungary, India, Iran (Islamic Republic of), Iraq, Ireland, Israel, Italy,
	Jordan, Kenya, Kuwait, Lebanon, Libya, Lithuania, Moldova, Norway,
	Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, Qatar, the
	Syrian Arab Republic, Türkiye, Dem. People's Rep. of Korea, Slovakia, the
	Czech Rep., Romania, the United Kingdom, Singapore, Slovenia, Somalia,
	Sudan, Sweden, Tanzania, 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. Resolution 242
	(Rev.WRC-23) applies. (WRC-23)
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)
5.537A	In Bhutan, Cameroon, China, 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 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
<i>5.520</i>	Resolution 145 (Rev.WRC-19). (WRC-19)  Additional allocation: the bands 27.500-27.501 GHz and
5.538	
	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)
5.539	The band 27.5-30 GHz may be used by the fixed-satellite service (Earth-to-
3.337	space) for the provision of feeder links for the broadcasting-satellite
	service.
5.540	Additional allocation: the band 27.501-29.999 GHz is also allocated to the
3.340	fixed-satellite service (space-to-Earth) on a secondary basis for beacon
	transmissions intended for up-link power control.
5.541	In the band 28.5-30 GHz, the earth exploration-satellite service is limited to
0.011	the transfer of data between stations and not to the primary collection of
	information by means of active or passive sensors.
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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.
5.543B	The allocation to the fixed service in the frequency band 31-31.3 GHz is identified for worldwide use by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution 167 (Rev.WRC-23). (WRC-23)
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, Bahrain, Belarus, Djibouti, 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, Türkiye, Kyrgyzstan, Romania, the United Kingdom, Somalia, South Africa, Tajikistan and Turkmenistan, the allocation of the frequency 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-23)
5.547	The frequency 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. 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 frequency 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-23)
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 frequency band 32.3-33 GHz, for the radionavigation service in the frequency band

	32-33 GHz, and for the space research service (deep space) in the
	frequency 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 (Rev. WRC-23)). (WRC-23)
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 $-73.3 \text{ dB}(W/m^2)$ 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
	(passive) service and the fixed and mobile services, Resolution 752
	(WRC-07) shall apply. (WRC-07)
5.550B	The frequency band 37-43.5 GHz, or portions thereof, is identified for use
	by administrations wishing to implement the terrestrial component of
	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. Because of the potential deployment of FSS earth stations
	within the frequency range 37.5-42.5 GHz and high-density applications in
	the fixed-satellite service in the frequency bands 39.5-40 GHz in Region 1,
	40-40.5 GHz in all Regions and 40.5-42 GHz in Region 2 (see No. 5.516B),
	administrations should further take into account potential constraints to
	IMT in these frequency bands, as appropriate. Resolution 243
	(Rev.WRC-23) applies. (WRC-23)
5.550C	The use of the frequency bands 37.5-39.5 GHz (space-to-Earth),
	39.5-42.5 GHz (space to Earth), 47.2-50.2 GHz (Earth-to-space) and
	50.4-51.4 GHz (Earth-to-space) by a non-geostationary satellite system in
	the fixed-satellite service is subject to the application of the provisions of
	No. 9.12 for coordination with other non-geostationary-satellite systems in
	the fixed-satellite service but not with non-geostationary-satellite systems in
	other services. Resolution 770 (WRC-19) shall also apply, and No. 22.2
	shall continue to apply. (WRC-19)
5.550CA	Non-geostationary-satellite systems in the fixed-satellite service operating
	with an apogee altitude above 407 km and below 2 000 km in the frequency
	band 37.5-38 GHz shall not exceed an unwanted emission e.i.r.p. density of
	-21 dB(W/100 MHz) per space station for angles greater than 65.0° from
	nadir relative to the space station in the fixed-satellite service in the
	frequency band 36-37 GHz in order to protect the Earth exploration-
<i>E 55</i> 0D	satellite service (passive) operating in the latter frequency band. (WRC-23)
5.550D	The allocation to the fixed service in the frequency band 38-39.5 GHz is
	identified for worldwide use by administrations wishing to implement high-
	altitude platform stations (HAPS). In the HAPS-to-ground direction, the
	HAPS ground station shall not claim protection from stations in the fixed,
	mobile and fixed-satellite services; and No. 5.43A does not apply. This
	identification does not preclude the use of this frequency band by other
	fixed-service applications or by other services to which this frequency band

	is allocated on a co-primary basis and does not establish priority in the
	Radio Regulations. Furthermore, the development of the fixed-satellite,
	fixed and mobile services shall not be unduly constrained by HAPS. Such
	use of the fixed-service allocation by HAPS shall be in accordance with the
	provisions of Resolution 168 (Rev. WRC-23). (WRC-23)
5.550E	The use of the frequency bands 39.5-40 GHz and 40-40.5 GHz by non-
	geostationary-satellite systems in the mobile-satellite service (space-to-
	Earth) and by non geostationary-satellite systems in the fixed-satellite
	service (space-to-Earth) is subject to the application of the provisions of
	No. 9.12 for coordination with other non-geostationary-satellite systems in
	the fixed-satellite and mobile-satellite services but not with non-
	geostationary-satellite systems in other services. No. 22.2 shall continue to
	apply for non geostationary-satellite-systems. (WRC-19)
5.551H	The equivalent power flux-density (epfd) produced in the frequency band
	42.5-43.5 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:
	$-230 dB(W/m^2)$ in 1 GHz and $-246 dB(W/m^2)$ 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
	$-209 dB(W/m^2)$ 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 $\theta_{min}$ 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.
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	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
5.551I	whose administration so agreed. (WRC-15)  The power flux-density in the band 42.5-43.5 GHz produced by any
3.3311	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:
	$-137 dB(W/m^2)$ in 1 GHz and $-153 dB(W/m^2)$ 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
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	$-116 dB(W/m^2)$ 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.
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	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
3.332	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 frequency bands 47.2-47.5 GHz
0.00211	and 47.9-48.2 GHz is identified for use by high-altitude platform stations
	(HAPS). This identification does not preclude the use of this frequency band
	by any application of the services to which it is allocated on a co-primary
	basis, and does not establish priority in the Radio Regulations. Such use of
	the fixed-service allocation in the frequency bands 47.2-47.5 GHz and
	47.9-48.2 GHz by HAPS shall be in accordance with the provisions of
	Resolution 122 (Rev. WRC-19). (WRC-19)
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)
5.553A	In Algeria, Angola, Bahrain, Belarus, Benin, Botswana, Brazil, Burkina
	Faso, Cabo Verde, Korea (Rep. of), Côte d'Ivoire, Croatia, Djibouti, Egypt,
	United Arab Emirates, Estonia, Eswatini, Gabon, Gambia, Ghana, Greece,
	Guinea, Guinea-Bissau, Hungary, Iran (Islamic Republic of), Iraq, Jordan,
	Kuwait, Lesotho, Latvia, Liberia, Lithuania, Madagascar, Malawi, Mali,
	Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria,
	Oman, Qatar, Senegal, Seychelles, Sierra Leone, Slovenia, Somalia, Sudan,
	South Africa, Sweden, Tanzania, Togo, Tunisia, Zambia and Zimbabwe, the
	frequency band 45.5-47 GHz is identified for use by administrations
	wishing to implement the terrestrial component of International Mobile
	Telecommunications (IMT), taking into account No. 5.553. With respect to
	the aeronautical mobile service and radionavigation service, the use of this
	frequency band for the implementation of IMT is subject to agreement
	obtained under No. 9.21 with concerned administrations and shall not
	cause harmful interference to, or claim protection from these services. 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. Resolution 244 (Rev.WRC-23) applies. (WRC-23)
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
5.555C	astronomy station. (WRC-03)  The use of the frequency band 51.4-52.4 GHz by the fixed-satellite service
3.333C	(Earth-to-space) is limited to geostationary-satellite networks. The earth
	stations shall be limited to gateway earth stations with a minimum antenna
	diameter of 2.4 metres. (WRC-19)
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 $-147 dB(W/m^2 \cdot 100 MHz)$ 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-satellite service (passive), the maximum power density
	delivered by a transmitter to the antenna of a fixed service station is limited
7.750	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
3.330A	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/m <sup>2</sup> • 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
	operated subject to not causing harmful interference to the inter-satellite
	service (see No. 5.43). (WRC-2000)
5.559AA	The frequency band 66-71 GHz is identified for use by administrations
	wishing to implement the terrestrial component of International Mobile
	Telecommunications (IMT). This identification does not preclude the use of

	this frequency band by any application of the services to which this
	frequency band is allocated and does not establish priority in the Radio
	Regulations. Resolution 241 (Rev.WRC-23) applies. (WRC-23)
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)
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
0.001	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 broadcasting-satellite service. (WRC-2000)
5.561A	The 81-81.5 GHz band is also allocated to the amateur and amateur-
3.301A	satellite services on a secondary basis. (WRC-2000)
5.562	The use of the band 94-94.1 GHz by the Earth exploration-satellite (active)
3.304	and 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
5.502A	stations of the Earth exploration-satellite service (active) that are directed
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	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
<i>7.7.</i> (2D	extent possible. (WRC-2000)
5.562B	In the frequency bands 105-109.5 GHz, 111.8-114.25 GHz and
	217-226 GHz, the use of this allocation is limited to space-based radio
	astronomy only. (WRC-19)
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/m <sup>2</sup> • 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)
5.562H	Use of the bands 174.8-182 GHz and 185-190 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 $-144  dB(W/(m^2 \cdot MHz))$ 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,
	ground-based passive atmospheric sensing is carried out to monitor
	atmospheric constituents. (WRC-2000)

5.563AA	In the frequency band 235-238 GHz, stations in the Earth exploration- satellite service (passive) shall not claim protection from stations in the fixed and mobile services. (WRC-23)
5.563B	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)
5.564A	For the operation of fixed and land mobile service applications in frequency bands in the range 275-450 GHz: The frequency bands 275-296 GHz, 306-313 GHz, 318-333 GHz and 356-450 GHz are identified for use by administrations for the implementation of land mobile and fixed service applications where no specific conditions are necessary to protect Earth exploration-satellite service (passive) applications. The frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz may only be used by fixed and land mobile service applications when specific conditions to ensure the protection of Earth exploration-satellite service (passive) applications are determined in accordance with Resolution 731 (Rev.WRC-23). In those portions of the frequency range 275-450 GHz where radio astronomy applications are used, specific conditions (e.g. minimum separation distances and/or avoidance angles) may be necessary to ensure protection of radio astronomy sites from land mobile and/or fixed service applications, on a case-by-case basis, in accordance with Resolution 731 (Rev.WRC-23). The use of the above-mentioned frequency bands by land mobile and fixed service applications does not preclude use by, and does not establish priority over, any other applications of radio services in the range of 275-450 GHz. (WRC-23)
5.565	The following frequency bands in the range 275-1 000 GHz are identified for use 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 275-1 000 GHz by the passive services does not preclude use of this range by active services. Administrations wishing to make frequencies in the 275-1 000 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 275-1 000 GHz frequency range. All frequencies in the range 1 000-3 000 GHz may be used by both active and passive services. (WRC-12)