

Estonia

Approved by Decree of the
Minister of Transport and
Communications
on 31 March 2000/No.19
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2000/No.62)

ESTONIAN RADIO FREQUENCY ALLOCATION PLAN

Explanatory notes to the use of Radio Frequency Allocation Plan

1. For the purposes of this Plan, the method of use of radio frequency band defines the general conditions for frequency use (duplex-/simplex operation, channel arrangements, general restrictions e.g. maximum output power).
2. For the purposes of this Plan, the purpose of use of radio frequency band defines the frequency sharing between the different radio communication services (see clause 9).
3. For the purposes of this Plan, the regime of use of radio frequency band defines the categories for frequency use (primary or secondary).
4. The service of primary category, which can claim a protection from harmful interference from stations of other service, is printed in "capitals".
5. The service of secondary category, which shall not cause harmful interference to stations of primary service and cannot claim a protection from harmful interference from stations of another services, is printed in "normal characters".
6. Governmental use type 1 indicates the exclusive use of frequency band by the Defence Forces in peaceful time for state defence in accordance with technical requirements established by Minister of Defence.
7. Governmental use type 2 indicates the radio frequency bands for general use by the Defence Forces in peaceful time for state defence.
8. The Radio Frequency Allocation Plan does not exclude in special case the use of radio frequency channel by the Defence Forces outside of frequency bands determined in the clauses 6 and 7 under the specified procedure for these radio frequency bands.
9. Conformities of Estonian and English terms related to use of radio frequency bands used in Radio Frequency Allocation Plan:

KOSMOSE RAADIOMETEOROLOOGIA	METEOROLOGICAL-SATELLITE
KOSMOSE-RAADIONAVIGATSIION	RADIONAVIGATION SATELLITE
KOSMOSE-UURINGUD	SPACE RESEARCH
LENNUSIDE	AERONAUTICAL
LIIKUV KOSMOSESIDE	MOBILE SATELLITE
LIIKUV KOSMOSESIDE (ES)	MOBILE SATELLITE (ES)

LIIKUV KOSMOSESIDE (SE)	MOBILE SATELLITE (SE)
LIIKUV LENNU-KOSMOSESIDE	AERONAUTICAL MOBILE-SATELLITE
LIIKUV LENNUSIDE (OR)	AERONAUTICAL MOBILE (OR)
LIIKUV LENNUSIDE (R)	AERONAUTICAL MOBILE (R)
LIIKUV MAASIDE	LAND MOBILE
LIIKUV MERESIDE	MARITIME MOBILE
LIIKUV SIDE	MOBILE
LENNU-RAADIONAVIGATSIOON	AERONAUTICAL RADIONAVIGATION
MAA-UURINGUTE KOSMOSESIDE	EARTH EXPLORATION-SATELLITE
MERE-RAADIONAVIGATSIOON	MARITIME RADIONAVIGATION
PAIKNE KOSMOSESIDE	FIXED SATELLITE
PAIKNE SIDE	FIXED
RAADIOASTRONOMIA	RADIO ASTRONOMY
RAADIOLOKATSIOON	RADIOLOCATION
RAADIOMETEOROLOOGIA	METEOROLOGICAL AIDS
RAADIONAVIGATSIOON	RADIONAVIGATION
RINGHÄÄLING	BROADCASTING
RINGHÄÄLING (SATELLIIT)	BROADCASTING-SATELLITE
STANDARDSAGEDUSE JA AJA SIGNAAL	STANDARD FREQUENCY AND TIME SIGNAL
STANDARDSAGEDUSE JA AJA SIGNAAL SATELLIIDILT	STANDARD FREQUENCY AND TIME SIGNAL- SATELLITE
AMATÖÖR-RAADIOSIDE	AMATEUR
AMATÖÖR-KOSMOSESIDE	AMATEUR-SATELLITE

10. Explanation of symbols and abbreviations used in Radio Frequency Allocation Plan:

Symbols and abbreviations	Significance
A1A	Telegraphy, amplitude-modulated
A2C	Digital facsimile, amplitude-modulated
A3C	Analogue facsimile, amplitude-modulated
AM	Amplitude modulation
App.	Appendix of Radio Regulations
Art.	Article of Radio Regulations
BSS	Broadcasting-Satellite Service
CEPT	European Conference of Postal and Telecommunications Administrations
CEPT PR27	Citizen's band radio equipment in the 27 MHz band
CEPT/ERC T/R	CEPT/ERC Technical Recommendation
CEPT/ERC/DEC	CEPT/ERC Decision
CEPT/ERC/REC	CEPT/ERC Recommendation
CT1	Cordless Telephone of first generation
CT2	Cordless Telephone of second generation
DAB	Digital Audio Broadcasting
DCS-1800	Digital Cellular System
DEC	Decision
DECT	Digital Enhanced Cordless Telecommunications
Du	Duplex radio channel
DVB	Digital Video Broadcasting
e.i.r.p.	Effective isotropic radiated power
EPIRB	Emergency Position-Indicating Radiobeacon
ERC	European Radiocommunications Committee

ERMES	European Radio Message System
ES	Earth-to-Space
F1B	Telegraphy for automatic reception, frequency-modulated
F1C	Digital facsimile, frequency-modulated
F3C	Analogue facsimile, frequency-modulated
FM	Frequency modulation
FWA	Fixed Wireless Access
FSS	Fixed-Satellite Service
GPS	Global Positioning System
GSM	Global System for Mobile Communication
HDFS	High-Density Fixed Service
HIPERLAN	High Performance Local Area Network
IARU	International Amateur Radio Union
IMT-2000	International Mobile Telecommunications 2000 (ITU definition for UMTS)
IMO	International Maritime Organization
ISM	Industrial, Scientific and Medical applications
ITU	International Telecommunication Union
J2B	Telegraphy, single-sideband (single channel)
J7B	Telegraphy, single-sideband (two or more channels)
MLS	Microwave Landing System
MOBITEX	Data Transmission System
MSI	Maritime Safety Information
MWS	Multimedia Wireless Systems
NAVTEX	Maritime Emergency System (Narrow-Band Direct-Printing telegraphy)
NBDP	Narrow-Band Direct-Printing
NMT	Nordic Mobile Telephone

No.(Nos.)	Number(s)
OIRT	International TV- and Radio Organisation
OR	Outside national and international civil air routes (Aeronautical service)
pdf	Power flux density
PMR446	Professional Mobile Radio 446
R	Along national or international civil air routes (Aeronautical service)
R	OIRT TV channel (Broadcasting service)
RAS	Radio Access System
Rec.	Recommendation
Res.	Resolution
RTTT	Road Transport and Traffic Telematics
Rx	Base station receiving frequency
SART	Search and Rescue Transponders
SE	Space-to-Earth
Si	Simplex radio channel
SNG	Satellite News Gathering
SS	Satellite-to-Satellite
SSB	Single Side Band
S-PCS	Satellite Personal Communications Service
T-DAB	Terrestrial Digital Audio Broadcasting
T/R	Recommendation
TETRA	Terrestrial Trunked Radio
TFTS	Terrestrial Flight Telecommunications System
TKS	Telecommunications Act (RT* I 2000, 18, 116)
TTM	Industrial, Scientific and Medical applications (estonian abbreviation)
TV	Television

Tx	Base station transmission frequency
UMTS	Universal Mobile Telecommunications System (ERC definition for IMT-2000)
WRC (WARC)	World (Administrative) Radio Conference
VSAT	Very Small Aperture Terminal

* RT-Riigi Teataja-State Gazette

PART I. RADIO FREQUENCY RANGE 9 kHz to 29,7 MHz

Regime and purpose of use of radio frequency band determined by the Radio Regulations annexed to the Convention and Constitution of the International Telecommunication Union	Regime and purpose of use of radio frequency band in Estonia	Method of use of radio frequency band in Estonia
9-14 kHz RADIONAVIGATION	RADIONAVIGATION	9,000-59,750 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption
14-19.95 kHz FIXED MARITIME MOBILE S5.57 Maritime mobile service for coast radiotelegraph stations A1A and F1B only S5.55 Additional allocation: in Russia the band 14-17 kHz is also allocated to radionavigation service on a primary basis	FIXED	9,000-59,750 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption
19.95-20.05 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	STANDARD FREQUENCY AND TIME SIGNAL	9,000-59,750 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption

<p>20.05-70 kHz FIXED MARITIME MOBILE S5.57 Maritime mobile service for coast radiotelegraph stations A1A and F1B only S5.56 In Russia standard frequency and time signal (25 kHz, 50 kHz) S5.58 Additional allocation: in Russia 67-70 kHz on a primary basis radionavigation service</p>	FIXED	<p>9,000-59,750 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption 59,750-60,250 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption 60,250-70,000 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>70-72 kHz RADIONAVIGATION S5.60 Pulsed radionavigation systems</p>	RADIONAVIGATION	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>72-84 kHz FIXED MARITIME MOBILE S5.57 Maritime mobile service for coast radiotelegraph stations A1A and F1B only RADIONAVIGATION S5.60 Pulsed radionavigation systems S5.56 Stations may transmit standard frequency and time signals</p>	FIXED RADIONAVIGATION	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>84-86 kHz RADIONAVIGATION S5.60 Pulsed radionavigation systems</p>	RADIONAVIGATION	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>86-90 kHz FIXED MARITIME MOBILE S5.57 Maritime mobile service for coast radiotelegraph stations A1A and F1B only RADIONAVIGATION S5.56 Stations may transmit standard frequency and time signals</p>	FIXED	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>

<p>90-110 kHz RADIONAVIGATION S5.62 Stations in the radionavigation must be coordinated to avoid harmful interference Fixed S5.64 Only A1A or F1B, A2C, A3C, F1C or F3C emissions for fixed and maritime services; J2B or J7B for maritime mobile service</p>	<p>RADIONAVIGATION</p>	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>110-112 kHz FIXED MARITIME MOBILE S5.64 Only A1A or F1B, A2C, A3C, F1C or F3C emissions for fixed and maritime services; J2B or J7B for maritime mobile service RADIONAVIGATION</p>	<p>FIXED RADIONAVIGATION</p>	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>112-115 kHz RADIONAVIGATION S5.60 Pulsed radionavigation systems</p>	<p>RADIONAVIGATION</p>	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>115-117.6 kHz RADIONAVIGATION S5.60 Pulsed radionavigation systems Fixed Maritime mobile S5.64 Only A1A or F1B, A2C, A3C, F1C or F3C emissions for fixed and maritime services; J2B or J7B for maritime mobile service</p>	<p>RADIONAVIGATION</p>	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>117.6-126 kHz FIXED MARITIME MOBILE S5.64 Only A1A or F1B, A2C, A3C, F1C or F3C emissions for fixed and maritime services; J2B or J7B for maritime mobile service RADIONAVIGATION S5.60 Pulsed radionavigation systems</p>	<p>FIXED RADIONAVIGATION</p>	<p>70-119 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption 119-135 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>

<p>126-129 kHz RADIONAVIGATION S5.60 Pulsed radionavigation systems</p>	<p>RADIONAVIGATION</p>	<p>119-135 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>129-130 kHz FIXED MARITIME MOBILE S5.64 Only A1A or F1B, A2C, A3C, F1C or F3C emissions for fixed and maritime services; J2B or J7B for maritime mobile service RADIONAVIGATION S5.60 Pulsed radionavigation systems</p>	<p>FIXED RADIONAVIGATION</p>	<p>119-135 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>130-148.5 kHz MARITIME MOBILE FIXED S5.64 Only A1A or F1B, A2C, A3C, F1C or F3C emissions for fixed and maritime services; J2B or J7B for maritime mobile service</p>	<p>MARITIME MOBILE FIXED Amateur</p>	<p>119-135 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption 135,7-137,8 kHz Amateur on secondary basis (e.r.p. = 1W), CEPT/ERC REC 62-01</p>
<p>148.5-255 kHz BROADCASTING</p>	<p>BROADCASTING</p>	<p>LW radio</p>
<p>255-283.5 kHz BROADCASTING AERONAUTICAL RADIONAVIGATION</p>	<p>BROADCASTING</p>	<p>LW radio</p>
<p>283.5-315 kHz AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) S5.73 Transmitting of navigational information S5.74 Additional allocation: 285.3- 285.7 kHz maritime radionavigation on a primary basis (other than radiobeacons)</p>	<p>MARITIME RADIONAVIGATION</p>	<p>Radiobeacons</p>

<p>315-325 kHz AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (radiobeacons) S5.73 Transmitting of navigational information S5.75 Different category of service: in Russia maritime radionavigation on a primary basis (in the Baltic Sea area new stations shall be subject to prior consultation between the administrations concerned)</p>	AERONAUTICAL RADIONAVIGATION	Radiobeacons
<p>325-405 kHz AERONAUTICAL RADIONAVIGATION</p>	AERONAUTICAL RADIONAVIGATION	Radiobeacons
<p>405-415 kHz RADIONAVIGATION S5.76 410 kHz is designated for radio direction-finding in the maritime radionavigation service</p>	RADIONAVIGATION	
<p>415-435 kHz AERONAUTICAL RADIONAVIGATION MARITIME MOBILE S5.79 Maritime mobile service is limited to radiotelegraphy</p>	AERONAUTICAL RADIONAVIGATION	

<p>435-495 kHz</p> <p>MARITIME MOBILE S5.79 Maritime mobile service is limited to radiotelegraphy S5.79A NAVTEX service coast stations on frequency 490 kHz must be coordinated in accordance with IMO procedures</p> <p>Aeronautical Radionavigation S5.81 The band 490-495 kHz is subject to App. S13 S5.82 490 kHz transmission by coast stations NBDP telegraphy, in using the band 415-495 kHz for aeronautical radionavigation, no harmful interference should be caused to the frequency 490 kHz</p>	<p>MARITIME MOBILE Aeronautical radionavigation</p>	<p>Radiotelegraphy (coast stations to ships) Aeronautical radiobeacons</p>
<p>495-505 kHz</p> <p>MOBILE (distress and calling) S5.83 500 kHz international distress and calling frequency for Morse radiotelegraphy</p>	<p>MOBILE (distress and calling)</p>	<p>500 kHz International distress and calling frequency for Morse radiotelegraphy 495-505 kHz Guard band</p>
<p>505-526.5 kHz</p> <p>MARITIME MOBILE S5.79 Maritime mobile service is limited to radiotelegraphy S5.79A NAVTEX service coast stations on frequency 518 kHz must be coordinated in accordance with IMO procedures S5.84 Conditions for the use of the frequency 518 kHz by maritime mobile service are prescribed in Art. S31 and S52 and in App. S13</p> <p>AERONAUTICAL RADIONAVIGATION S5.81 The band 505-510 kHz is subject to App. S13</p>	<p>MARITIME MOBILE</p>	<p>Radiotelegraphy (coast stations to ships) 518 kHz NAVTEX</p>
<p>526.5-1606.5 kHz BROADCASTING</p>	<p>BROADCASTING</p>	<p>MW AM-radio</p>

<p>1606.5-1625 kHz</p> <p>MARITIME MOBILE S5.90 The service area of maritime mobile stations are limited to that provided by ground-wave propagation</p> <p>FIXED</p> <p>LAND MOBILE</p> <p>S5.92 Radiodetermination systems mean power <50 W</p>	MARITIME MOBILE	Coast stations, telegraphy, digital selective calling
<p>1625-1635 kHz</p> <p>RADIOLOCATION</p> <p>S5.93 Additional allocation: in Russia and Latvia also allocated to the fixed and land mobile services on a primary basis</p>	RADIOLOCATION	
<p>1635-1800 kHz</p> <p>MARITIME MOBILE S5.90 The service area of maritime mobile stations are limited to that provided by ground-wave propagation</p> <p>FIXED</p> <p>LAND MOBILE</p> <p>S5.92 Radiodetermination systems mean power <50 W</p> <p>S5.96 Up to 200 kHz may be allocated for amateur stations mean power <10 W</p>	MARITIME MOBILE	Coast stations, radiotelephony 1650-1800 kHz Governmental use type 2
<p>1800-1810 kHz</p> <p>RADIOLOCATION</p> <p>S5.93 Additional allocation: in Russia and Latvia also allocated to the fixed and land mobile services on a primary basis</p>	RADIOLOCATION	

<p>1810-1850 kHz AMATEUR S5.98 Alternative allocation: in Russia the band 1810- 1830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis S5.100 To prevent harmful interference between amateur stations and stations of other services</p>	<p>AMATEUR</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>
<p>1850-2000 kHz FIXED MOBILE except aeronautical mobile S5.92 Radiodetermination systems mean power <50 W S5.96 Up to 200 kHz may be allocated to amateur stations with mean power <10W S5.103 Special requirements of the maritime mobile service</p>	<p>MARITIME MOBILE LAND MOBILE 1850-1955 kHz Amateur</p>	<p>1850-1950 kHz Coast stations, radiotelephony 1950-2000 kHz Ship stations, radiotelephony Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>
<p>2000-2025 kHz FIXED MOBILE except aeronautical mobile(R) S5.92 Radiodetermination systems mean power <50 W S5.103 Special requirements of the maritime mobile service</p>	<p>MARITIME MOBILE LAND MOBILE</p>	<p>2000-2025 kHz Ship stations, radiotelephony</p>
<p>2025-2045 kHz FIXED MOBILE except aeronautical mobile(R) Meteorological Aids S5.104 Oceanographic buoy stations S5.92 Radiodetermination systems mean power <50 W S5.103 Special requirements of the maritime mobile service</p>	<p>MARITIME MOBILE LAND MOBILE</p>	<p>2025-2045 kHz Ship stations, radiotelephony</p>

<p>2045-2160 kHz MARITIME MOBILE FIXED LAND MOBILE S5.92 Radiodetermination systems mean power <50 W</p>	<p>MARITIME MOBILE LAND MOBILE (until 1 January 2005)</p>	<p>2045-2141,5 kHz Ship stations, radiotelephony 2141,5-2160 kHz Ship stations, telegraphy, digital selective calling 2045-2100 kHz Land mobile; Governmental use type 2</p>
<p>2160-2170 kHz RADIOLOCATION S5.93 Additional allocation: in Russia and Latvia also allocated to the fixed and land mobile services on a primary basis</p>	<p>RADIOLOCATION</p>	
<p>2170 -2173.5 kHz MARITIME MOBILE</p>	<p>MARITIME MOBILE</p>	<p>Radiotelephony, telegraphy (coast stations to ships)</p>
<p>2173.5-2190.5 kHz MOBILE (distress and calling) S5.108 2182 kHz is an international distress and calling frequency for radiotelephony S5.109 2187.5 kHz is an international distress frequency for digital selective calling S5.110 2174.5 kHz is an international distress frequency for NBDP telegraphy S5.111 2182 kHz may also be used for search and rescue operations concerning manned space vehicles</p>	<p>MOBILE (distress and calling)</p>	<p>2182 kHz International distress and calling frequency for radiotelephony</p>
<p>2190.5-2194 kHz MARITIME MOBILE</p>	<p>MARITIME MOBILE</p>	

<p>2194-2300 kHz FIXED MOBILE except aeronautical mobile (R) S5.92 Radiodetermination systems mean power <50 W S5.103 Special requirements of the maritime mobile service</p>	<p>MARITIME MOBILE LAND MOBILE (until 1 January 2001) FIXED</p>	<p>2194-2262,5 kHz Ship stations, radiotelephony 2262,5-2300 kHz Intership, radiotelephony 2200-2300 kHz Land mobile; Governmental use type 2</p>
<p>2300-2498 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 conditions of the use 2300-2498 kHz by broadcasting service can be found in Nos. S5.16 to S5.20, S5.21 and S23.3 to S23.10 S5.103 Special requirements of the maritime mobile service</p>	<p>FIXED MOBILE except aeronautical mobile (R)</p>	<p>2300-2498 kHz Intership, radiotelephony Governmental use type 2</p>
<p>2498-2501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)</p>	<p>STANDARD FREQUENCY AND TIME SIGNAL</p>	
<p>2501-2502 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research</p>	<p>STANDARD FREQUENCY AND TIME SIGNAL</p>	
<p>2502-2625 kHz FIXED MOBILE except aeronautical mobile (R) S5.92 Radiodetermination systems mean power <50 W S5.103 Special requirements of the maritime mobile service</p>	<p>MOBILE except aeronautical mobile (R) FIXED</p>	<p>2502-2578 kHz Ship stations, telegraphy 2578-2625 kHz Coast stations, radiotelephony, telegraphy</p>
<p>2625-2650 kHz MARITIME MOBILE MARITIME RADIONAVIGATION S5.92 Radiodetermination systems mean power <50 W</p>	<p>MARITIME MOBILE MARITIME RADIONAVIGATION</p>	<p>2625-2650 kHz Coast stations, radiotelephony, telegraphy</p>

<p>2650-2850 kHz FIXED MOBILE except aeronautical mobile (R) S5.92 Radiodetermination systems mean power <50 W S5.103 Special requirements of the maritime mobile service</p>	<p>FIXED MOBILE except aeronautical mobile (R)</p>	<p>2650-2850 kHz Coast stations, radiotelephony, telegraphy 2650-2750 kHz Land mobile/fixed; Governmental use type 2</p>
<p>2850-3025 kHz AERONAUTICAL MOBILE (R) S5.111 3023 kHz may also be used for search and rescue operations concerning manned space vehicles S5.115 3023 kHz may also be used by stations of the maritime mobile service engaged in coordinated search and rescue operations</p>	<p>AERONAUTICAL MOBILE (R)</p>	
<p>3025-3155 kHz AERONAUTICAL MOBILE (OR)</p>	<p>AERONAUTICAL MOBILE (OR)</p>	
<p>3155-3200 kHz FIXED MOBILE except aeronautical mobile (R) S5.116 3155-3195 kHz a common worldwide channel for low power wireless hearing aids</p>	<p>MARITIME MOBILE FIXED</p>	<p>Ship stations, telegraphy</p>
<p>3200-3230 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 Conditions of the use by broadcasting service can be found in Nos. S5.16 to S5.20, S5.21 and S23.3 to S23.10 S5.116 For hearing aid devices</p>	<p>MARITIME MOBILE</p>	<p>3200-3230 kHz Ship stations, radiotelephony</p>

<p>3230-3400 kHz FIXED MOBILE except aeronautical mobile BROADCASTING S5.113 Conditions of the use by broadcasting service can be found in Nos. S5.16 to S5.20, S5.21 and S23.3 to S23.10 S5.116 For hearing aid devices</p>	<p>MARITIME MOBILE</p>	<p>3230-3340 kHz Ship stations, radiotelephony 3340-3400 kHz Intership, radiotelephony</p>
<p>3400-3500 kHz AERONAUTICAL MOBILE (R)</p>	<p>AERONAUTICAL MOBILE (R)</p>	
<p>3500-3800 kHz AMATEUR S5.120 Use of 3.5 MHz in the event of natural disasters, Res. 640 FIXED MOBILE except aeronautical mobile S5.92 Radiodetermination systems mean power <50 W</p>	<p>FIXED AMATEUR MARITIME MOBILE</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 3500-3600 kHz Intership, radiotelephony 3600-3800 kHz Coast stations, radiotelephony</p>
<p>3800-3900 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE</p>	<p>FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE</p>	<p>3800-3900 kHz Mobile/fixed; Governmental use type 2</p>
<p>3900-3950 kHz AERONAUTICAL MOBILE (OR)</p>	<p>AERONAUTICAL MOBILE (OR)</p>	
<p>3950-4000 kHz FIXED BROADCASTING</p>	<p>BROADCASTING</p>	<p>SW (75m)-AM-Radio</p>
<p>4000-4063 kHz FIXED MARITIME MOBILE S5.127 Ship stations using radiotelephony <1.5 kW</p>	<p>FIXED MARITIME MOBILE</p>	<p>Ship stations</p>

<p>4063-4438 kHz MARITIME MOBILE S5.79A NAVTEX service coast stations on frequency 4209.5 kHz must be coordinated in accordance with IMO procedures S5.109 4207.5 kHz is an international distress frequency for digital selective calling S5.110 4177.5 kHz is an international distress frequency for narrow-band direct-printing telegraphy - S5.130 4125 kHz usage conditions in Art. S31 and S52 and in App. S13 S5.131 4209.5 kHz for meteorological and navigational warnings and urgent information to ships by NBDP S5.132 4210 kHz is an international frequency for the transmission of MSI S5.128 In Russia in the bands 4063-4123 kHz, 4130-4133 kHz and 4408-4438 kHz stations of limited power in the fixed service which are situated >600 km from coast may operate on condition that harmful interference is not caused to the maritime mobile service S5.129 On condition that harmful interference is not caused to the maritime mobile service, the frequencies in the bands 4063- 4123 kHz and 4130-4438 kHz may be used exceptionally by stations in the fixed service communicating within the boundary of the country in which they are located with mean power <50 W</p>	<p>MARITIME MOBILE</p>	<p>4063-4065 kHz Ship stations, oceanographic data transmission 4065-4146 kHz Ship stations, telephony, duplex operation 4146-4152 kHz Telephony, simplex operation 4152-4172 kHz Ship stations, telegraphy 4172-4181,75 kHz Ship stations, telegraphy and data 4181,75-4186,75 kHz Ship stations, Morse telegraphy, calling 4186,75-4202,25 kHz Ship stations, Morse telegraphy 4202,25-4207,25 kHz Ship stations, telegraphy and data, Morse teregraphy 4207,25-4209,25 kHz Ship stations, digital selective calling 4209,25-4219,25 kHz Coast stations, telegraphy and data 4219,25-4221 kHz Coast stations, digital selective calling 4221-4351 kHz Coast stations, telegraphy and data, Morse telegraphy 4351-4438 kHz Coast stations, telephony, duplex operation</p>
<p>4438-4650 kHz FIXED MOBILE except aeronautical mobile (R)</p>	<p>LAND MOBILE (until 31 December 2000) FIXED MARITIME MOBILE</p>	<p>Coast stations</p>
<p>4650-4700 kHz AERONAUTICAL MOBILE (R)</p>	<p>AERONAUTICAL MOBILE (R)</p>	

4700-4750 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	
4750-4850 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING S5.113 Conditions of the use by broadcasting service can be found in Nos. S5.16 to S5.20, S5.21 and S23.3 to S23.10	FIXED AERONAUTICAL MOBILE (OR)	
4850-4995 kHz FIXED LAND MOBILE BROADCASTING S5.113 Conditions of the use by broadcasting service can be found in Nos. S5.16 to S5.20, S5.21 and S23.3 to S23.10	FIXED LAND MOBILE	Fixed Land mobile Governmental use type 2
4995-5003 kHz STANDARD FREQUENCY AND TIME SIGNAL(5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL	
5003-5005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL	
5005-5060 kHz FIXED BROADCASTING S5.113 Conditions of the use by broadcasting service can be found in Nos. S5.16 to S5.20, S5.21 and S23.3 to S23.10	FIXED	Fixed Governmental use type 2
5060-5250 kHz FIXED Mobile except aeronautical mobile S5.133 Different category of service: in Latvia and Russia 5130-5250 kHz mobile, except aeronautical mobile, service on a primary basis	FIXED	

5250-5450 kHz FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile.	Mobile/fixed Governmental use type 2
5450-5480 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	Fixed Aeronautical mobile (OR) Land mobile Governmental use type 2
5480-5680 kHz AERONAUTICAL MOBILE (R) S5.111 5680 kHz may also be used for search and rescue operations concerning manned space vehicles S5.115 5680 kHz may also be used by stations of the maritime mobile service engaged in coordinated search and rescue operations	AERONAUTICAL MOBILE (R)	
5680-5730 kHz AERONAUTICAL MOBILE (OR) S5.111 5680 kHz may also be used for search and rescue operations concerning manned space vehicles S5.115 5680 kHz may also be used by stations of the maritime mobile service engaged in coordinated search and rescue operations	AERONAUTICAL MOBILE (OR)	
5730-5900 kHz FIXED LAND MOBILE	FIXED LAND MOBILE	5750-5850 kHz Land fixed/mobile Governmental use type 2
5900-5950 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.136 Land mobile service on a primary basis (until 01.04.2007)	BROADCASTING	SW (59 m)-AM-radio

5950-6200 kHz BROADCASTING	BROADCASTING	SW (59 m)-AM-radio
6200-6525 kHz MARITIME MOBILE S5.109 6312 kHz is an international distress frequency for digital selective calling S5.110 6268 kHz is an international distress frequency for NBDP telegraphy S5.130 6215 kHz conditions in Art. S31 and S52 and in App. S13 S5.132 6314 kHz is an international frequency for the transmission of MSI S5.137 6200-6213.5 kHz and 6220.5-6525 kHz may be used in the fixed service, <50W	MARITIME MOBILE	6200-6224 kHz Ship stations, telephony, duplex operation 6224-6233 kHz Telephony, simplex operation 6233-6261 kHz Ship stations, telegraphy 6261-6262,75 kHz Ship stations, oceanographic data transmission 6262,75-6275,75 kHz Ship stations, telegraphy and data 6275,75-6280,75 kHz Ship stations, Morse telegraphy, calling frequencies 6280,75-6284,75 kHz Ship stations, telegraphy and data 6284,75-6300,25 kHz Ship stations, Morse telegraphy 6300,25-6311,75 kHz Ship stations, telegraphy and data, Morse telegraphy 6311,75-6313,75 kHz Ship stations, digital selective calling 6313,75-6330,75 kHz Coast stations, telegraphy and data 6330,75-6332,5 kHz Coast stations, digital selective calling 6332,5-6501kHz Coast stations, telegraphy and data, Morse telegraphy 6501-6525 kHz Coast stations, telephony, duplex operation
6525-6685 kHz AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	

6685-6765 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	
6765-7000 kHz FIXED Land Mobile S5.139 Different category of service: in Russia and Latvia land mobile service on a primary basis S5.138 6765-6795 kHz (centre frequency 6780 kHz) for ISM applications	FIXED ISM applications	6765-6795 kHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)– licence exemption 6765-6795 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption
7000-7100 kHz AMATEUR S5.120 Use of 7 MHz in the event of natural disasters, Res. 640 AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Types of emissions in accordance with IARU1 Frequency Plan
7100-7300 kHz BROADCASTING	BROADCASTING	SW (41 m)-AM-radio
7300-7350 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.143 Fixed service on a primary basis and land mobile service on a secondary basis until 01.04.2007	BROADCASTING	SW (41 m)-SSB-radio
7350-8100 kHz FIXED Land Mobile	FIXED Land mobile	7350-7450 kHz Fixed and mobile Governmental use type 2 7400-8800 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption
8100-8195 kHz FIXED MARITIME MOBILE	FIXED MARITIME MOBILE	Ship stations 7400-8800 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption

<p>8195-8815 kHz MARITIME MOBILE S5.109 8414.5 kHz is an international distress frequency for digital selective calling S5.110 8376.5 kHz is an international distress frequency for NBDP telegraphy S5.132 8416.5 kHz is an international frequency for the transmission of MSI S5.145 Conditions for the use of 8291 kHz in Art. S31, S52 and in App. S13 S5.111 8364 kHz may also be used for search and rescue operations concerning manned space vehicles</p>	<p>MARITIME MOBILE</p>	<p>7400-8800 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption 8195-8294 kHz Ship stations, telephony, duplex operation 8294-8300 kHz Telephony, simplex operation 8300-8340 kHz Ship stations, telegraphy 8340-8341,75 kHz Ship stations, oceanographic data transmission. 8341,75-8365,75 kHz Ship stations, Morse telegraphy 8365,75-8370,75 kHz Ship stations, Morse telegraphy, calling 8370,75-8376,25 kHz Ship stations, Morse telegraphy 8376,25-8396,25 kHz Ship stations, telegraphy and data 8396,25-8414,25 kHz Ship stations, telegraphy and data, Morse teregraphy 8414,25-8416,25 kHz Ship stations, digital selective calling 8416,25-8436,25 kHz Coast stations, telegraphy and data 8436,25-8438 kHz Coast stations, digital selective calling 8438-8707 kHz Coast stations, telegraphy and data, Morse telegraphy 8707-8815 kHz Coast stations, telephony, duplex operation</p>
<p>8815-8965 kHz AERONAUTICAL MOBILE (R)</p>	<p>AERONAUTICAL MOBILE (R)</p>	

8965-9040 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	
9040-9400 kHz FIXED	FIXED	
9400-9500 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.146 Fixed service on a primary basis until 01.04.2007	BROADCASTING	SW (31 m)-SSB-radio
9500-9900 kHz BROADCASTING S5.147 9775-9900 kHz may be used by stations in the fixed service <24dBW on condition that harmful interference is not caused to the broadcasting service S5.148 9775-9900 kHz allocated to the fixed service on a primary basis (Res. 8)	BROADCASTING	SW (31 m)-AM-radio
9900-9995 kHz FIXED	FIXED	
9995-10003 kHz STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz) S5.111 10003 kHz(± 3 kHz) may also be used for search and rescue operations concerning manned space vehicles	STANDARD FREQUENCY AND TIME SIGNAL	

<p>10003-10005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 10003 kHz(± 3 kHz) may also be used for search and rescue operations concerning manned space vehicles</p>	STANDARD FREQUENCY AND TIME SIGNAL	
<p>10005-10100 kHz AERONAUTICAL MOBILE (R) S5.111 10003 kHz(± 3 kHz) may also be used for search and rescue operations concerning manned space vehicles</p>	AERONAUTICAL MOBILE (R)	
<p>10100-10150 kHz FIXED Amateur S5.120 Use of 10.1 MHz in the event of natural disasters, Res. 640</p>	FIXED Amateur	Amateur, types of emissions in accordance with IARU1 Frequency Plan
<p>10150-11175 kHz FIXED Mobile except aeronautical mobile (R)</p>	FIXED	10150-10250 kHz Governmental use type 2
<p>11175-11275 kHz AERONAUTICAL MOBILE (OR)</p>	AERONAUTICAL MOBILE (OR)	
<p>11275-11400 kHz AERONAUTICAL MOBILE (R)</p>	AERONAUTICAL MOBILE (R)	
<p>11400-11600 kHz FIXED</p>	FIXED	

<p>11600-11650 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.146 Fixed service on a primary basis until 01.04.2007</p>	BROADCASTING	SW (25 m)-SSB-radio
<p>11650-12050 kHz BROADCASTING S5.147 11650-11700 kHz and 11975- 12050 kHz may be used by stations in the fixed service <24dBW on condition that harmful interference is not caused to the broadcasting service S5.148 11650-11700 kHz and 11975-12050 kHz allocated to the fixed service on a primary basis (Res 8)</p>	BROADCASTING	SW (25 m)-AM-radio
<p>12050-12100 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.146 Fixed service on a primary basis until 01.04.2007</p>	BROADCASTING	SW (25 m)-SSB-radio
<p>12100-12230 kHz FIXED</p>	FIXED	

<p>12230-13200 kHz MARITIME MOBILE S5.109 12577 kHz is an international distress frequency for digital selective calling S5.110 12520 kHz is an international distress frequency for narrow-band direct-printing S5.132 12579 kHz is an international frequency for the transmission of MSI S5.145 Conditions for the use of 12290 kHz</p>	<p>MARITIME MOBILE</p>	<p>12230-12353 kHz Ship stations, telephony, duplex operation 12353-12368 kHz Telephony, simplex operation 12368-12420 kHz Ship stations, telegraphy 12420-12421,75 kHz Ship stations, oceanographic data transmission 12421,75-12476,75 kHz Ship stations, Morse telegraphy 12476,75-12549,75 kHz Ship stations, telegraphy and data 12549,75-12554,75 kHz Ship stations, Morse telegraphy, calling 12554,75-12559,75 kHz Ship stations, telegraphy and data. 12559,75-12576,75 kHz Ship stations, telegraphy and data, Morse teregraphy 12576,75-12578,75 kHz Ship stations, digital selective calling 12578,75-12656,75 kHz Coast stations, telegraphy and data 12656,75-12658,5 kHz Coast stations, digital selective calling 12658,5-13077 kHz Coast stations, telegraphy and data, Morse telegraphy 13077-13200 kHz Coast stations, telephony, duplex operation</p>
<p>13200-13260 kHz AERONAUTICAL MOBILE (OR)</p>	<p>AERONAUTICAL MOBILE (OR)</p>	<p>Governmental use type 2</p>
<p>13260-13360 kHz AERONAUTICAL MOBILE (R)</p>	<p>AERONAUTICAL MOBILE (R)</p>	

<p>13360-13410 kHz FIXED RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>FIXED RADIO ASTRONOMY</p>	
<p>13410-13570 kHz FIXED Mobile except aeronautical mobile (R) S5.150 13553-13567 kHz (centre frequency 13560 kHz) for ISM applications</p>	<p>FIXED ISM applications</p>	<p>13553-13567 kHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption 13553-13567 kHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption</p>
<p>13570-13600 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.151 Allocated to the fixed service on a primary basis and to the mobile except aeronautical mobile ® service on a secondary basis until 01.04.2007 (Res. 21)</p>	<p>BROADCASTING</p>	<p>SW (22 m)-SSB-radio</p>
<p>13600-13800 kHz BROADCASTING S5.148 Allocated to the fixed service on a primary basis (Res. 8)</p>	<p>BROADCASTING</p>	<p>SW (22 m)-AM-radio</p>

<p>13800-13870 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.151 Allocated to the fixed service on a primary basis and to the mobile except aeronautical mobile (R) service on a secondary basis until 01.04.2007 (Res. 21)</p>	<p>BROADCASTING</p>	<p>SW (22 m)-SSB-radio</p>
<p>13870-14000 kHz FIXED Mobile except aeronautical mobile (R)</p>	<p>FIXED</p>	
<p>14000-14250 kHz AMATEUR S5.120 Use of 14 MHz in the event of natural disasters, Res. 640 AMATEUR-SATELLITE</p>	<p>AMATEUR AMATEUR-SATELLITE</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>
<p>14250-14350 kHz AMATEUR S5.120 Use of 14 MHz in the event of natural disasters, Res. 640 S5.152 Additional allocation: in Russia also allocated to the fixed service on a primary basis <24 dBW</p>	<p>AMATEUR</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>
<p>14350-14990 kHz FIXED Mobile except aeronautical mobile (R)</p>	<p>FIXED</p>	
<p>14990-15005 kHz STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) S5.111 14993 kHz(± 3 kHz) may also be used for search and rescue operations concerning manned space vehicles</p>	<p>STANDARD FREQUENCY AND TIME SIGNAL</p>	

15005-15010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL	
15010-15100 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	
15100-15600 kHz BROADCASTING S5.148 15450-15600 kHz is allocated to the fixed service on a primary basis (Res. 8)	BROADCASTING	SW (19 m)-AM-radio
15600-15800 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.146 Fixed service on a primary basis until 01.04.2007	BROADCASTING	SW (19 m)-SSB-radio
15800-16360 kHz FIXED	FIXED	

<p>16360-17410 kHz MARITIME MOBILE S5.109 16804.5 kHz is an international distress frequency for digital selective calling S5.110 16695 kHz is an international distress frequency for narrow-band direct-printing telegraphy S5.132 16806.5 kHz is an international frequency for the transmission of MSI S5.145 Conditions for the use of 16420 kHz in Art. S31 and S52 and in App. S13</p>	<p>MARITIME MOBILE</p>	<p>16360-16528 kHz Ship stations, telephony, duplex operation 16528-16549 kHz Telephony, simplex operation 16549-16617 kHz Ship stations, telegraphy 16617-16618,75 kHz Ship stations, oceanographic data transmission 16618,75-16683,25 kHz Ship stations, Morse telegraphy 16683,25-16733,75 kHz Ship stations, telegraphy and data 16733,75-16738,75 kHz Ship stations, Morse telegraphy, calling 16738,75-16784,75 kHz Ship stations, telegraphy and data 16784,75-16804,25 kHz Ship stations, telegraphy and data, Morse telegraphy 16804,25-16806,25 kHz Ship stations, digital selective calling 16806,25-16902,75 kHz Coast stations, telegraphy and data 16902,75-16904,5 kHz Coast stations, digital selective calling 16904,5-17242 kHz Coast stations, telegraphy and data, Morse telegraphy 17242-17410 kHz Coast stations, telephony, duplex operation</p>
<p>17410-17480 kHz FIXED</p>	<p>FIXED</p>	

17480-17550 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.146 Fixed service on a primary basis until 01 04 2007	BROADCASTING	SW (15 m)-SSB-radio
17550-17900 kHz BROADCASTING S5.148 17550-17700 kHz is allocated to the fixed service on a primary basis (Res. 8)	BROADCASTING	SW (15 m)-AM-radio
17900-17970 kHz AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	
17970-18030 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	
18030-18052 kHz FIXED	FIXED	
18052-18068 kHz FIXED Space Research	FIXED	
18068-18168 kHz AMATEUR S5.120 Use of 18.068 MHz in the event of natural disasters, Res. 640 AMATEUR-SATELLITE S5.154 Additional allocation: in Russia also allocated to the fixed service <1kW	AMATEUR AMATEUR-SATELLITE	Types of emissions in accordance with IARU1 Frequency Plan
18168-18780 kHz FIXED Mobile except aeronautical mobile	FIXED	

<p>18780-18900 kHz MARITIME MOBILE</p>	<p>MARITIME MOBILE</p>	<p>18780-18825 kHz Ship stations, telephony, duplex operation 18825-18846 kHz Telephony, simplex operation 18846-18870 kHz Ship stations, telegraphy 18870-18892,75 kHz Ship stations, telegraphy and data 18892,75-18898,25 kHz Ship stations, telegraphy and data, Morse telegraphy 18898,25-18899,75 kHz Ship stations, digital selective calling</p>
<p>18900-19020 kHz BROADCASTING S5.134 SSB (App.S11) or any other spectrum-efficient modulation techniques recommended by ITU-R (Access to this band shall be subject to the decision of a competent conference) S5.146 Fixed service on a primary basis until 01.04.2007</p>	<p>BROADCASTING</p>	<p>SW (14 m)-SSB-radio</p>
<p>19020-19680 kHz FIXED</p>	<p>FIXED</p>	
<p>19680-19800 kHz MARITIME MOBILE S5.132 19680.5 kHz is an international frequency for the transmission of MSI</p>	<p>MARITIME MOBILE</p>	<p>19680,25-19703,25 kHz Coast stations, telegraphy and data 19703,25-19705 kHz Coast stations, digital selective calling 19705-19755 kHz Coast stations, telegraphy and data, Morse telegraphy 19755-19800 kHz Coast stations, telephony, duplex operation</p>
<p>19800-19990 kHz FIXED</p>	<p>FIXED</p>	

<p>19990-19995 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 19993 kHz (± 3 kHz) may also be used for search and rescue operations concerning manned space vehicles</p>	STANDARD FREQUENCY AND TIME SIGNAL	
<p>19995-20010 kHz STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz) S5.111 19993 kHz (± 3 kHz) may also be used for search and rescue operations concerning manned space vehicles</p>	STANDARD FREQUENCY AND TIME SIGNAL	
<p>20010-21000 kHz FIXED Mobile</p>	FIXED	
<p>21000-21450 kHz AMATEUR S5.120 Use of 21 MHz in the event of natural disasters, Res. 640 AMATEUR-SATELLITE</p>	AMATEUR AMATEUR-SATELLITE	Types of emissions in accordance with IARU1 Frequency Plan
<p>21450-21850 kHz BROADCASTING S5.148 21750-21850 kHz is allocated to the fixed service on a primary basis (Res. 8)</p>	BROADCASTING	SW (13 m)-AM-radio
<p>21850-21870 kHz FIXED S5.155A In Russia the use by fixed service is limited to provision of services related to aircraft flight safety S5.155 Additional allocation: in Russia allocated to the aeronautical fixed and the aeronautical mobile (R) services on a primary basis</p>	FIXED	

<p>21870-21924 kHz FIXED S5.115B Used by the fixed service for provision of services related to aircraft flight safety</p>	<p>FIXED</p>	
<p>21924-22000 kHz AERONAUTICAL MOBILE (R)</p>	<p>AERONAUTICAL MOBILE (R)</p>	
<p>22000-22855 kHz MARITIME MOBILE S5.132 22736 kHz is an international frequency for the transmission of MSI</p>	<p>MARITIME MOBILE</p>	<p>22000-22159 kHz Ship stations, telephony, duplex operation 22159-22180 kHz Telephony, simplex operation 22180-22240 kHz Ship stations, telegraphy 22240-22241,75 kHz Ship stations, oceanographic data transmission 22241,75-22279,25 kHz Ship stations, Morse telegraphy 22279,25-22284,25 kHz Ship stations, Morse telegraphy calling 22284,25-22351,75 kHz Ship stations, telegraphy and data 22351,75-22374,25 kHz Ship stations, telegraphy and data, Morse telegraphy 22374,25-22375,75 kHz Ship stations, digital selective calling 22375,75-22443,75 kHz Coast stations, telegraphy and data 22443,75-22445,5 kHz Coast stations, digital selective calling 22445,5-22696 kHz Coast stations, telegraphy and data, Morse telegraphy 22696-22855 kHz Coast stations, telephony, duplex operation</p>

22855-23000 kHz FIXED	FIXED	
23000-23200 kHz FIXED Mobile except aeronautical mobile (R)	FIXED	
23200-23350 kHz FIXED S5.156A Use by fixed services is limited to provision of services related to aircraft flight safety AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	
23350-24000 kHz FIXED MOBILE except aeronautical mobile S5.157 Maritime mobile service is limited to inter-ship radiotelegraphy	FIXED	
24000-24890 kHz FIXED LAND MOBILE	FIXED	
24890-24990 kHz AMATEUR S5.120 Use of 24.89 MHz in the event of natural disasters, Res. 640 AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Types of emissions in accordance with IARU1 Frequency Plan
24990-25005 kHz STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL	
25005-25010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL	
25010-25070 kHz FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile	

<p>25070-25210 kHz MARITIME MOBILE</p>	<p>MARITIME MOBILE</p>	<p>25070-25100 kHz Ship stations, telephony, duplex operation 25100-25121 kHz Telephony, simplex operation 25121-25161,25 kHz Ship stations, telegraphy 25161,25-25171,25 kHz Ship stations, Morse telegraphy 25171,25-25172,75 kHz Ship stations, Morse telegraphy, calling 25172,75-25192,75 kHz Ship stations, telegraphy and data 25192,75-25208,25 kHz Ship stations, telegraphy and data, Morse teregraphy 25208,25-25210 kHz Ship stations, digital selective calling</p>
<p>25210-25550 kHz FIXED MOBILE except aeronautical mobile</p>	<p>FIXED MOBILE except aeronautical mobile</p>	
<p>25.550-25.670 MHz RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>RADIO ASTRONOMY</p>	
<p>25.670-26.100 MHz BROADCASTING</p>	<p>BROADCASTING</p>	<p>SW (11 m)-AM-radio</p>

<p>26.100-26.1750 MHz MARITIME MOBILE S5.132 26100.5 kHz is an international frequency for the transmission of MSI</p>	MARITIME MOBILE	26,10025-26,12075 MHz Coast stations, telegraphy and data 26,12075-26,1225 MHz Coast stations, digital selective calling 26,1225-26,145 MHz Coast stations, telegraphy and data, Morse telegraphy 26,145-26,175 MHz Coast stations, telephony, duplex operation
<p>26.175-27.500 MHz FIXED MOBILE except aeronautical mobile S5.150 26957-27283 kHz (centre frequency 27120 kHz) for ISM applications</p>	FIXED MOBILE except aeronautical mobile ISM applications	Coast stations (App.S17) Land mobile 26,960-27,410 MHz (except for 26,995; 27,045; 27,095; 27,145; 27,195 MHz) CEPT PR 27 CEPT/ERC/DEC(98)11-licence exemption 26,995; 27,045; 27,095; 27,145; 27,195 MHz Model control CEPT/ERC/REC 70-03 (Annex 8)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 26,957-27,283 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 26,957-27,283 MHz Inductive applications CEPT/ERC/REC 70-03 (Annex 9)-licence exemption CEPT/ERC/DEC(98)05-technical requirements
<p>27.500-28.000 MHz METEOROLOGICAL AIDS FIXED MOBILE</p>	METEOROLOGICAL AIDS FIXED	

28.000-29.700 MHz AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Types of emissions in accordance with IARU1 Frequency Plan
PART II. RADIO FREQUENCY RANGE 29,7 MHz to 3600 MHz		
Regime and purpose of use of radio frequency band determined by the Radio Regulations annexed to the Convention and Constitution of the International Telecommunication Union	Regime and purpose of use of radio frequency band in Estonia	Method of use of radio frequency band in Estonia
29.700-30.005 MHz FIXED MOBILE	FIXED MOBILE	Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements
30.005-30.010 MHz SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH	FIXED MOBILE	Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements
30.010-37.500 MHz FIXED MOBILE	FIXED MOBILE	Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 30,3-30,5 MHz Governmental use type 1 32,150-32,450 MHz Governmental use type 1 33,300-33,800 MHz Governmental use type 2 34,995-35,225 MHz Flying models control CEPT/ERC/REC 70-03 (Annex 8)-licence exemption CEPT/ERC/DEC(98)05-technical requirements

<p>37.500-38.250 MHz FIXED MOBILE Radio Astronomy S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>FIXED MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements</p>
<p>38.250-39.986 MHz FIXED MOBILE</p>	<p>FIXED MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 39,000-39,500 MHz Governmental use type 2 39,000-39,050 MHz Meteor-scatter applications</p>
<p>39.986-40.020 MHz FIXED MOBILE Space Research</p>	<p>FIXED MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements</p>
<p>40.020-40.980 MHz FIXED MOBILE S5.150 40.66-40.70 MHz (centre frequency 40.68 MHz) for ISM applications</p>	<p>FIXED MOBILE ISM applications</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 40,665; 40,675; 40,685; 40,695 MHz Model control CEPT/ERC/REC 70-03 (Annex 8)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 40,660-40,700 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(98)05-technical requirements</p>

<p>40.980-41.015 MHz FIXED MOBILE Space Research</p>	<p>FIXED MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements</p>
<p>41.0150-47.000 MHz FIXED MOBILE S5.162A Additional allocation: 46-68 MHz is allocated on secondary basis to wind profiler radars</p>	<p>FIXED MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 41,700-42,200 MHz Governmental use type 2 45,000-45,700 MHz Governmental use type 2 46,100-46,600 MHz Governmental use type 2 (45,000-47,000 MHz Governmental use type 1 after 31 December 2000)</p>
<p>47.000-68.000 MHz BROADCASTING S5.162A Additional allocation: 46-68 MHz is allocated on secondary basis to wind profiler radars S5.163 Additional allocation: 47-48.5 MHz and 56.5-58 MHz also allocated to the fixed and land mobile services on a secondary basis S5.164 Additional allocation: in Finland and Sweden also allocated to the land mobile service on a primary basis</p>	<p>BROADCASTING 47-48,5 MHz Land mobile 50,0-52,0 MHz Amateur 56,5-58 MHz Land mobile</p>	<p>TV-channels R1...R2 47,000-47,800 MHz Governmental use type 2 47,800-48,500 MHz Land mobile, Si 50,000-52,000 MHz Amateur (with restrictions), types of emissions in accordance with IARU1 Frequency Plan 57,000-57,150-MHz Governmental use type 2 57,0125-57,5125 MHz Land mobile (Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2001) After 1 January 2001: 57,150-57,500 MHz Land mobile, Du (+7 MHz) 64,150-64,500 MHz Land mobile, Du (-7MHz)</p>

<p>68.000-74.800 MHz FIXED MOBILE except aeronautical mobile S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference in the frequency band 73-74.6 MHz S5.175 Alternative allocation: 68-73 MHz broadcasting on a primary basis S5.177 Additional allocation: 73-74 MHz broadcasting on a primary basis S5.179 Additional allocation: in Russia and Latvia 74.6-74.8 MHz also allocated to the aeronautical radio-navigation service, on a primary basis, for ground-based transmitters only</p>	<p>MOBILE 68,000-74,000 MHz Broadcasting (until 1 January 2005)</p>	<p>Mobile 68,000-74,000 MHz FM sound broadcasting (on the valid conditions at the moment of entry into force of TKS until 1 January 2005) 74,200-74,500 MHz Governmental use type 2</p>
<p>74.800-75.200 MHz AERONAUTICAL RADIONAVIGATION S5.180 75 MHz aeronautical marker beacons S5.181 Additional allocation: in Sweden also allocated to the mobile service on a secondary basis</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	<p>75,000 MHz Aeronautical marker beacons 74,800-75,200 MHz Guard band</p>
<p>75.200-87.500 MHz FIXED MOBILE except aeronautical mobile S5.175 Alternative allocation: 76-87.5 MHz broadcasting on a primary basis S5.179 Additional allocation: in Russia and Latvia 75.2-75.4 MHz also allocated to the aeronautical radio-navigation service on a primary basis, for ground-based transmitters only</p>	<p>MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 75,2-77,7 MHz Du Rx (+9,8 MHz); 77,7-77,8 MHz Si; 84,6-85,0 MHz Si; 85,0-87,5 MHz Du Tx (-9,8 MHz) 83,600-83,800 MHz Governmental use type 2</p>
<p>87.500-108.000 MHz BROADCASTING</p>	<p>SOUND BROADCASTING</p>	<p>87,500-108,000 MHz FM sound broadcasting CEPT/ERC/DEC(96)13- technical requirements</p>

<p>108.000-117.975 MHz AERONAUTICAL RADIONAVIGATION S5.197 Additional allocation: in Sweden the band 108-111.975 MHz is also allocated to the mobile service on a secondary basis</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	
<p>117.975-136.000 MHz AERONAUTICAL MOBILE (R) S5.111 121.5 MHz may also be used for search and rescue operations concerning manned space vehicles S5.198 Additional allocation: also allocated to the aeronautical mobile-satellite(R) service on a secondary basis S5.199 121.45-121.55 MHz also allocated to the mobile-satellite service S5.200 121.5 MHz is the aeronautical emergency frequency and 123.1 MHz is auxiliary. Maritime mobile under conditions of Art. S38 and App. S13 S5.201 Additional allocation: 132-136 MHz also allocated to the aeronautical mobile (OR) service on a permitted basis</p>	<p>AERONAUTICAL MOBILE (R) Aeronautical mobile-satellite (R)</p>	<p>CEPT/ERC/DEC(98)28 – technical requirements 121,500 MHz EPIRB 123,100 MHz Aeronautical emergency communications</p>
<p>136.000-137.000 MHz AERONAUTICAL MOBILE (R) S5.202 Additional allocation: in Latvia and Russia also allocated to the aeronautical mobile (OR) service on a permitted basis S5.203 Additional allocation: space operation service (SE), meteorological-satellite service (SE) and the space research service (SE) on a secondary basis (until 01.01.2002)</p>	<p>AERONAUTICAL MOBILE (R)</p>	<p>CEPT/ERC/DEC(98)28 – technical requirements</p>

<p>137.000-137.025 MHz SPACE OPERATION (SE) METEOROLOGICAL-SATELLITE (SE) SPACE RESEARCH (SE) MOBILE-SATELLITE (SE) S5.208A To protect radioastronomy from harmful interference (Table 1 of Recommendation ITU-R RA.769-1) S5.209 Limited to non-geostationary satellite systems Fixed Mobile except aeronautical mobile (R) S5.206 Different category of service: in Finland and Russia the aeronautical mobile (OR) service on a primary basis S5.208 Mobile-satellite service under Res. 46</p>	<p>MOBILE SATELLITE (SE) Mobile except aeronautical mobile (R)</p>	<p>S-PCS CEPT/ERC/DEC(99)06– licence exemption for terminal equipment</p>
<p>137.025-137.175 MHz SPACE OPERATION (SE) METEOROLOGICAL-SATELLITE (SE) SPACE RESEARCH (SE) Mobile-Satellite (SE) S5.208A To protect radioastronomy from harmful interference (Table 1 of Recommendation ITU-R RA.769-1) S5.209 Limited to non-geostationary satellite systems Fixed Mobile except aeronautical mobile (R) S5.206 Different category of service: in Finland and Russia the aeronautical mobile (OR) service on a primary basis S5.208 Mobile-satellite service under Res. 46</p>	<p>MOBILE SATELLITE (SE) Mobile except aeronautical mobile (R)</p>	<p>S-PCS CEPT/ERC/DEC(99)06– licence exemption for terminal equipment</p>

<p>137.175-137.825 MHz SPACE OPERATION (SE) METEOROLOGICAL-SATELLITE (SE) SPACE RESEARCH (SE) MOBILE-SATELLITE (SE) S5.208A To protect radioastronomy from harmful interference (Table 1 of Recommendation ITU-R RA.769-1) S5.209 Limited to non-geostationary satellite systems Fixed Mobile except aeronautical mobile (R) S5.206 Different category of service: in Finland and Russia the aeronautical mobile (OR) service on a primary basis S5.208 Mobile-satellite service under Res. 46</p>	<p>MOBILE SATELLITE (SE) Mobile except aeronautical mobile (R)</p>	<p>S-PCS CEPT/ERC/DEC(99)06– licence exemption for terminal equipment</p>
<p>137.825-138.000 MHz SPACE OPERATION (SE) METEOROLOGICAL-SATELLITE (SE) SPACE RESEARCH (SE) Mobile-satellite (SE) S5.208A To protect radioastronomy from harmful interference (Table 1 of Recommendation ITU-R RA.769-1) S5.209 Limited to non-geostationary satellite systems Fixed Mobile except aeronautical mobile (R) S5.206 Different category of service: in Finland and Russia the aeronautical mobile (OR) service on a primary basis S5.208 Mobile-satellite service under Res. 46</p>	<p>MOBILE SATELLITE (SE) Mobile except aeronautical mobile</p>	<p>S-PCS CEPT/ERC/DEC(99)06– licence exemption for terminal equipment</p>

<p>138.000-143.600 MHz AERONAUTICAL MOBILE (OR) S5.211 Additional allocation: in Finland and Sweden also allocated to the maritime mobile and land mobile services on primary basis</p>	<p>AERONAUTICAL MOBILE (OR) LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 142,000-143,600 MHz Governmental use type 2</p>
<p>143.600-143.650 MHz AERONAUTICAL MOBILE (OR) SPACE RESEARCH (SE) S5.211 Additional allocation: in Finland and Sweden also allocated to the maritime mobile and land mobile services on primary basis</p>	<p>AERONAUTICAL MOBILE (OR) LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements Governmental use type 2</p>
<p>143.650-144.000 MHz AERONAUTICAL MOBILE (OR) S5.211 Additional allocation: in Finland and Sweden also allocated to the maritime mobile and land mobile services on primary basis</p>	<p>AERONAUTICAL MOBILE (OR) LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements Governmental use type 2</p>
<p>144.000-146.000 MHz AMATEUR S5.120 Use of 144 MHz in the event of natural disasters, Res. 640 AMATEUR-SATELLITE</p>	<p>AMATEUR AMATEUR-SATELLITE</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>
<p>146.000-148.000 MHz FIXED MOBILE except aeronautical mobile (R)</p>	<p>LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 146,0-146,8 MHz Si; 146,8-148,0 MHz Du (+4,6 MHz); 146,8-148,0 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>

<p>148.000-149.900 MHz FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (ES) S5.209 Limited to non-geostationary satellite systems S5.218 Additional allocation: Space operation (ES) (bandwidth for any individual transmission ± 25 kHz) S5.219 Mobile-satellite service under Res. 46 S5.221 Stations in the mobile satellite service shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services</p>	<p>LAND MOBILE MOBILE SATELLITE (ES)</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 148,0-149,9 MHz Du (+4,6 MHz); 148,000-148,400 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005 S-PCS CEPT/ERC/DEC(99)06– licence exemption for terminal equipment</p>
<p>149.900-150.050 MHz RADIONAVIGATION-SATELLITE S5.224B Radionavigation-satellite service until 01.01.2015 MOBILE-SATELLITE (ES) S5.209 Limited to non-geostationary satellite systems S5.224A Limited to the land-mobile satellite service (ES) until 1 January 2015 S5.220 Land mobile-satellite service shall be coordinated under Res. 46 S5.222 Emmission of the radionavigation-satellite service may also be used by receiving earth stations of the space research service S5.223 Administrations are urged not to authorize the use by the fixed and mobile services</p>	<p>LAND MOBILE MOBILE SATELLITE (ES)</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 149,900-150,050 MHz Si S-PCS CEPT/ERC/DEC(99)06– licence exemption for terminal equipment</p>

<p>150.050-153.000 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 150,05-151,4 MHz Du (+4,6 MHz); 151,4-153,0 MHz Du (-4,6 MHz); 151,400-153,000 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>
<p>153.000-154.000 MHz FIXED MOBILE except aeronautical mobile (R) Meteorological Aids</p>	<p>LAND MOBILE</p>	<p>153,0-154,0 MHz Du (-4,6 MHz); 153,0-154,0 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>

<p>154.000-156.7625 MHz FIXED MOBILE except aeronautical mobile (R) S5.226 156.8 is international distress, safety and calling frequency for maritime mobile VHF radiotelephone service, 156-156.7625 MHz priority to the maritime mobile service S5.227 In the maritime mobile VHF service the frequency 156.525 MHz is to be used exclusively for digital selective calling for distress, safety and calling</p>	<p>154,0-156,0 MHz LAND MOBILE (except for 155,500 MHz; 155,525 MHz) 155,500 MHz; 155,525 MHz; 156-156,7625 MHz MARITIME MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 154,0-154,5 MHz Du (-4,6 MHz); 154,0-154,5 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005; 154,5-154,65 MHz Si; 154,65-156,0 MHz Du (-4,6 MHz); 154,65-156,0 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005 Maritime mobile CEPT/ERC/DEC(96)20- technical requirements 155,500 MHz; 155,525 MHz specified channels for yachts; 156,000-156,350 MHz ship stations Du (+4,6 MHz); 156,375-156,5125 MHz ship stations Si; 156,525 MHz digital selective call for distress, safety and calling; 156,5375-156,7625 MHz ship stations Si</p>
<p>156.7625-156.8375 MHz MARITIME MOBILE (distress and calling) S5.111 156.8 MHz may also be used for search and rescue operations concerning manned space vehicles S5.226 156.8 MHz international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service</p>	<p>MARITIME MOBILE (distress and calling)</p>	<p>CEPT/ERC/DEC(96)20- technical requirements 156,7625-156,7875 MHz Guard band 156,800 MHz 16. channel (international distress, safety and calling frequency) 156,8125-156,8375 MHz Guard band</p>

<p>156.8375-174.000 MHz FIXED MOBILE except aeronautical mobile S5.226 156.8375-157.45; 160.6-160.975; 161.475-162.05 MHz priority to the maritime mobile service</p>	<p>156,8375-157,450 MHz MARITIME MOBILE 157,450-157,800 MHz MARITIME MOBILE (until 1 January 2005) 157,800-160,600 MHz LAND MOBILE 160,600-160,975 MHz MARITIME MOBILE 160,975-161,475 MHz LAND MOBILE 161,475-162,050 MHz MARITIME MOBILE 162,400-174,000 MHz LAND MOBILE</p>	<p>Maritime mobile CEPT/ERC/DEC(96)20-technical requirements 156,850-157,450 MHz Du channels 17.-28.and 77.-88. Rx; 157,450-157,800 MHz Si channels 29.-35.and 89.-94.; 160,625-160,950 MHz Du channels 1.-7.and 60.-66. Tx; 161,500-162,025 MHz Du channels 18.-28.and 78.-88. Tx; 161,975 MHz, 162,025 MHz Universal Shipborne Automatic Identification System (AIS) CEPT/ERC/DEC(99)17 Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14-technical requirements 157,800-160,600 MHz Du (+4,6 MHz); 157,800-160,600 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005; 160,975-161,475 MHz Si; 162,400-165,200 MHz Du (-4,6 MHz); 162,050-165,200 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005; 165,200-165,225 MHz Si; 165,200-165,225 MHz Du (+4,6 MHz) networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005; 165,225-169,400 MHz Du (+4,6 MHz); 165,225-169,400 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005 169,4125-169,8125 MHz ERMES–licence exemption for terminal equipment CEPT/ERC/DEC(94)02 90/544/EEC CEPT/ERC/DEC(96)19-technical requirements 169,825-174,000 MHz Du (-4,6 MHz); 169,825-174,000 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005 173,200-173,350 MHz animal identification CEPT/ERC/DEC(98)05-technical requirements 173,965-174,015 MHz aids of the handicapped CEPT/ERC/REC 70-03 (Annex 10)-licence exemption CEPT/ERC/DEC(98)05-technical requirements</p>
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<p>174.000-223.000 MHz BROADCASTING S5.235 Additional allocation: in Finland and Sweden is also allocated to the land mobile service on a primary basis</p>	<p>BROADCASTING</p>	<p>TV channels R6..R12 T-DAB Wiesbaden Special Arrangement 1995</p>
<p>223.000-230.000 MHz BROADCASTING Fixed Mobile</p>	<p>BROADCASTING</p>	<p>222-230 MHz TV channel R12 T-DAB Wiesbaden Special Arrangement 1995</p>
<p>230.000-235.000 MHz FIXED MOBILE</p>	<p>FIXED MOBILE Broadcasting</p>	<p>230,000-231,000 MHz Telemetry, Data T-DAB Wiesbaden Special Arrangement 1995</p>
<p>235.000-267.000 MHz FIXED MOBILE S5.111 243 MHz may also be used for search and rescue operations concerning manned space vehicles S5.199 242,95-243,05 MHz also allocated to the mobile-satellite service S5.254 May be used by the mobile-satellite service on conditions that stations do not cause harmful interference S5.256 243 MHz for use by survival craft stations</p>	<p>FIXED MOBILE Broadcasting MOBILE SATELLITE (ES) /S5.111, S5.199, S5.254, S5.256/</p>	<p>235-240 MHz T-DAB Wiesbaden Special Arrangement 1995 242,950-243,050 MHz EPIRB 250,000-267,000 MHz Governmental use type 2</p>
<p>267.000-272.000 MHz FIXED MOBILE Space operation (SE) S5.254 May be used by the mobile-satellite service on conditions that stations do not cause harmful interference S5.257 May be used for space telemetry on a primary basis</p>	<p>FIXED MOBILE</p>	<p>267,000-272,000 MHz Governmental use type 2</p>

<p>272.000-273.000 MHz SPACE OPERATION (SE) FIXED MOBILE S5.254 May be used by the mobile-satellite service on conditions that stations do not cause harmful interference</p>	<p>FIXED MOBILE</p>	<p>272,000-273,000 MHz Governmental use type 2</p>
<p>273.000-312.000 MHz FIXED MOBILE S5.254 May be used by the mobile-satellite service on condition that stations do not cause harmful interference</p>	<p>FIXED MOBILE</p>	<p>273,000-300,000 MHz Governmental use type 2 306,000-306,325 MHz Data, Du Rx (+37 MHz) 307,000-307,500 MHz Data, Si 307,5125-307,9875 MHz Point-to-point telephone systems, Du Rx (+36 MHz) (until 1 January 2005) 308,000-312,000 MHz Programs distribution systems</p>
<p>312.000-315.000 MHz FIXED MOBILE Mobile-satellite (ES) S5.254 May be used by the mobile-satellite service on condition that stations do not cause harmful interference S5.255 May be used by non-geostationary-satellite systems</p>	<p>FIXED MOBILE</p>	<p>Programs distribution systems</p>
<p>315.000-322.000 MHz FIXED MOBILE S5.254 May be used by the mobile-satellite service on condition that stations do not cause harmful interference</p>	<p>FIXED MOBILE</p>	<p>Programs distribution systems</p>

<p>322.000-328.600 MHz FIXED MOBILE RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service(spectral line observation) from harmful interference</p>	<p>FIXED MOBILE</p>	
<p>328.600-335.400 MHz AERONAUTICAL RADIONAVIGATION S5.258 Limited to Instrument Landing Systems (glide path) S5.259 In Sweden also allocated to the mobile service on a secondary basis</p>	<p>AERONAUTICAL RADIONAVIGATION /S5.258/</p>	<p>Aeronautical radiobeacons</p>
<p>335.400-387.000 MHz FIXED MOBILE S5.254 May be used by the mobile-satellite service on condition that stations do not cause harmful interference</p>	<p>FIXED MOBILE</p>	<p>343-343,35 MHz Data, Du Tx (-37 MHz) 343,5125-343,9875 MHz Point-to-point telephone systems, Du Tx (-36 MHz) (until 1 January 2005) 344,000-358,500 MHz Fixed, Du (+20,5 MHz), Governmental use type 2 358,500-364,500 MHz Governmental use type 2 364,500-379,000 MHz Fixed , Du (-20,5 MHz), Governmental use type 2 380,000-385,000 MHz Reserved for TETRA emergency Du Rx (+10 MHz) CEPT/ERC/DEC(96)01 CEPT/ERC/DEC(99)04-technical requirements 385,000-387,000 MHz Reserved for TETRA civil Du Rx (+10 MHz) CEPT/ERC/DEC(96)04</p>

<p>387.000-390.000 MHz FIXED MOBILE Mobile-satellite (SE) S5.208A To protect radioastronomy from harmful interference (Table 1 of Recommendation ITU-R RA.769-1) S5.254 May be used by the mobile-satellite service on conditions that stations do not cause harmful interference S5.255 May be used by non-geostationary-satellite systems</p>	<p>MOBILE</p>	<p>387,000-389,900 MHz Reserved for TETRA civil Du Rx (+10 MHz) CEPT/ERC/DEC(96)04 389,9-390,0 MHz Land mobile, Si CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements</p>
<p>390.000-399.900 MHz FIXED MOBILE S5.254 May be used by the mobile-satellite service on condition that stations do not cause harmful interference</p>	<p>MOBILE</p>	<p>390,000-395,000 MHz Reserved for TETRA emergency Du Tx (-10 MHz) CEPT/ERC/DEC(96)01 CEPT/ERC/DEC(99)04- technical requirements 395,000-399,900 MHz Reserved for TETRA civil Du Tx (-10 MHz) CEPT/ERC/DEC(96)04</p>
<p>399.900-400.050 MHz MOBILE-SATELLITE S5.209 Limited to non-geostationary satellite systems S5.224A Mobile-satellite service is limited to land mobile-satellite service (until 01.01.2015) RADIONAVIGATION-SATELLITE S5.222 May also be used by receiving earth stations of the space research service S5.224B Radionavigation satellite service shall be effective until 01.01.2015 S5.260 Administrations are urged not to authorize the use by the fixed and mobile services S5.220 Mobile-satellite service shall be coordinated under Res. 46</p>	<p>RADIONAVIGATION-SATELLITE MOBILE SATELLITE (ES)</p>	

<p>400.050-400.150 MHz STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) S5.261 Emissions confined in a band 400.1 MHz \pm25 kHz S5.262 Additional allocation: the band is also allocated to the fixed and mobile services on a primary basis</p>	<p>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE</p>	
<p>400.150-401.000 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (SE) SPACE RESEARCH (SE) S5.263 Also allocated to the space research service in the space-to-space direction MOBILE-SATELLITE (SE) S5.208A To protect radioastronomy from harmful interference (Table 1 of Recommendation ITU-R RA.769-1) S5.209 Limited to non-geostationary satellite systems Space Operation (SE) S5.262 Additional allocation: the band is also allocated to the fixed and mobile services on a primary basis S5.264 Mobile-satellite service shall be coordinated under Res. 46</p>	<p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE MOBILE SATELLITE (SE) /S5.264/</p>	
<p>401.000-402.000 MHz METEOROLOGICAL AIDS SPACE OPERATION (SE) EARTH EXPLORATION-SATELLITE (ES) METEOROLOGICAL-SATELLITE (ES) Fixed Mobile except aeronautical mobile</p>	<p>METEOROLOGICAL AIDS</p>	<p>Meteorological radio sondes-licence exemption</p>

<p>402.000-403.000 MHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (ES) METEOROLOGICAL-SATELLITE (ES) Fixed Mobile except aeronautical mobile</p>	<p>METEOROLOGICAL AIDS</p>	<p>Meteorological radio sondes-licence exemption 402-405 MHz Active Medical Implants CEPT/ERC/REC 70-03 (Annex 12)-licence exemption CEPT/ERC/DEC(98)05-technical requirements</p>
<p>403.000-406.000 MHz METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile</p>	<p>METEOROLOGICAL AIDS</p>	<p>Meteorological radio sondes-licence exemption 402-405 MHz Active Medical Implants CEPT/ERC/REC 70-03 (Annex 12)-licence exemption CEPT/ERC/DEC(98)05-technical requirements</p>
<p>406.000-406.100 MHz MOBILE-SATELLITE (ES) S5.266 Use by mobile-satellite service is limited to low power satellite EPIRBs S5.267 Any emission causing harmful interference is prohibited</p>	<p>MOBILE SATELLITE (ES)/S5.267/</p>	<p>EPIRB</p>
<p>406.100-410.000 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>FIXED until 1 January 2005 LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 406,1-410,0 MHz Si Fixed Du operation on the valid conditions at the moment of entry into force of TKS until 1 January 2005: 407,000-410,000 MHz Du (+40 MHz); 408,000-408,600 MHz Du (+30 MHz)</p>

<p>410.000-420.000 MHz FIXED MOBILE except aeronautical mobile SPACE-RESEARCH (SS) S5.268 Communications within 5 km of an orbiting, manned space vehicle</p>	<p>LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements Du Rx (+10MHz): 410,000-412,500 MHz Radio network for emergency services; 412,500-415,000 MHz Reserved for TETRA civil CEPT/ERC/DEC(96)04; 415,000-420 MHz (24 frequency groups) RAS1000; 5 channels reserved for MOBITEX 414,925; 414,950 MHz Si</p>
<p>420.000-430.000 MHz FIXED MOBILE except aeronautical mobile Radiolocation S5.271 Additional allocation: also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis</p>	<p>LAND MOBILE</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements Du Tx (-10MHz): 420,000-422,500 MHz Radio network for emergency services; 422,500-425,000 MHz Reserved for TETRA civil CEPT/ERC/DEC(96)04; 425,000-430 MHz (24 frequency groups) RAS1000; 5 channels reserved for MOBITEX 424,925; 424,950 MHz Si</p>

<p>430.000-440.000 MHz AMATEUR RADIOLOCATION S5.138 433.05-434.79 MHz (centre frequency 433.92 MHz) for ISM applications S5.271 Additional allocation: also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis S5.274 Alternative allocation: in Sweden the bands 430-432 MHz and 438-440 MHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis S5.275 Additional allocation: the bands 430-432 MHz and 438-440 MHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis S5.277 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis S5.282 In the band 435-438 MHz amateur-satellite service not causing harmful interference to other services</p>	<p>FIXED (S5.275) 432,000-438,000 MHz AMATEUR 435,000-438,000 MHz Amateur-satellite ISM applications</p>	<p>Fixed 430,000-432,000 MHz Si; 438,000-440,000 MHz Du (-30 MHz) until 1 January 2005 432,000-438,000 MHz Amateur, types of emissions in accordance with IARU1 Frequency Plan 433,050-434,790 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(98)05-technical requirements</p>
<p>440.000-450.000 MHz FIXED MOBILE except aeronautical mobile Radiolocation S5.271 Additional allocation: also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis S5.286 449.75-450.025 MHz may be used for the space operation service (ES) and the space research service (ES)</p>	<p>FIXED MOBILE except aeronautical mobile</p>	<p>Land mobile CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 440-442,5 MHz Si; 443-450 MHz Si (according to existing frequency assignments to fixed service); 443-450 MHz Du networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005; 446,0-446,1 MHz PMR446 CEPT/ERC/DEC(98)25-licence exemption for terminal equipment Fixed 442,5-443 MHz Si, radiomodems; 447-450 MHz Du (-40 MHz) until 1 January 2005</p>

<p>450.000-460.000 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>S5.209 Use by mobile-satellite service is limited to non-geostationary satellite systems</p> <p>S5.271 Additional allocation: also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis</p> <p>S5.286 449.75-450.25 MHz may be used for the space operation service (ES) and the space research service (ES)</p> <p>S5.286A The use of the bands 454-456 MHz and 459-460 MHz by mobile-satellite service shall be coordinated under Res. 46</p> <p>S5.287 In the maritime mobile service the frequencies 457.525, 457.550 and 457.575 MHz may be used by on-board communication stations</p>	<p>MOBILE</p> <p>Fixed</p>	<p>Land mobile</p> <p>CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements</p> <p>450,000-453,000 MHz Du (+10 MHz);</p> <p>450,000-453,000 MHz</p> <p>Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005;</p> <p>453,000-457,475 MHz</p> <p>NMT-450, Du Rx (+10MHz) channels 1...180-licence exemption for terminal equipment;</p> <p>457,575-460,000 MHz Du (+10) MHz;</p> <p>457,575-460,000 MHz</p> <p>Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p> <p>Fixed</p> <p>453,000-457,475 MHz</p> <p>RAS1000, Du Rx (+10 MHz) on secondary basis</p> <p>Maritime mobile</p> <p>457,525-457,575 MHz</p> <p>On-board communication</p> <p>S5.287 and CEPT/ERC T/R 32-02</p>
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<p>460.000-470.000 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>Meteorological-Satellite (SE)</p> <p>S5.287 In the maritime mobile service, the frequencies 467.525, 467.550 and 467.575 may be used by on-board communication stations</p> <p>S5.289 Earth exploration-satellite service application may also be used not causing harmful interference</p> <p>S5.290 In Russian Federation the band is allocated to the meteorological-satellite service (SE) on a primary basis, subject to agreement obtained under No. S9.21</p>	<p>MOBILE</p> <p>Fixed</p>	<p>Land mobile</p> <p>CEPT/ERC/DEC(95)02, (96)07, (96)10, (96)11, (96)12, (96)14- technical requirements 460,000-463,0 MHz Du (-10 MHz); 460,000-463,0 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005;</p> <p>463,000-467,475 MHz NMT-450 , Du Tx (-10MHz) channels 1...180-licence exemption for terminal equipment;</p> <p>467,575-470,000 MHz Du (-10) MHz;</p> <p>467,575-470,000 MHz Si networks on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p> <p>Fixed</p> <p>463,000-467,475 MHz RAS1000, Du Tx (-10 MHz) on secondary basis</p> <p>Maritime mobile</p> <p>467,525-467,575 MHz</p> <p>On-board communication</p> <p>S5 287 and CEPT T/R 32-02</p>
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<p>470.000-790.000 MHz BROADCASTING S5.149 In the band 608-614 MHz assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.291A Additional allocation: the band 470-494 MHz is also allocated to the radiolocation service on a secondary basis S5.296 Additional allocation: in Finland and Sweden also allocated on a secondary basis to the land mobile service, intended for application ancillary to broadcasting S5.306 The band 608-614 MHz is also allocated to the radio astronomy service on a secondary basis S5.311 Within the frequency band 620-790 MHz, assignments may be made to television stations using FM in the broadcasting-satellite service S5.312 Additional allocation: in Latvia and Russia the band 645- 862 MHz is also allocated to the aeronautical radio-navigation service on a primary basis</p>	<p>BROADCASTING</p>	<p>470,000-790,000 MHz TV channels 21...60 470-790 MHz Professional radio microphones CEPT/ERC/REC70-03 (Annex 10) CEPT/ERC/DEC(96)15-technical requirements DVB (planned)</p>
<p>790.000-862.000 MHz FIXED BROADCASTING S5.312 Additional allocation: in Latvia and Russia the band 645- 862 MHz is also allocated to the aeronautical radio-navigation service on a primary basis S5.316 Additional allocation: in Finland and Sweden also allocated to the mobile, except aeronautical mobile, service on a primary basis S5.319 Additional allocation: in Russia the bands 806-840 MHz(ES) and 856-890 MHz(SE) are also allocated to the mobile-satellite, except aeronautical mobile-satellite(R), service</p>	<p>BROADCASTING</p>	<p>790,000-862,000 MHz TV channels 61...68 790-862 MHz Professional radio microphones CEPT/ERC/REC70-03 (Annex 10) CEPT/ERC/DEC(96)15-technical requirements 790-862 MHz DVB (planned)</p>

<p>862.000-960.000 MHz FIXED MOBILE except aeronautical mobile S5.319 Additional allocation: in Russia the bands 806-840 MHz(ES) and 856-890 MHz(SE) are also allocated to the mobile-satellite, except aeronautical mobile-satellite(R), service S5.323 Additional allocation: in Latvia and Russia also allocated to the aeronautical radionavigation service limited to ground-based radiobeacons on a primary basis until the end of their lifetime</p>	<p>MOBILE Fixed</p>	<p>862,000-960,000 MHz Channel arrangements in accordance with CEPT/ERC T/R 20-08, 75-02 863,0-865,0 MHz Consumer radio microphones CEPT/ERC/REC70-03 (Annex 10)-licence exemption CEPT/ERC/DEC(96)15-technical requirements 863,0-865,0 MHz Wireless Audio Applications CEPT/ERC/REC70-03 (Annex 13)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 864,1-868,1 MHz CT2 CEPT/ERC/DEC(96)18-licence exemption 868,600-868,700 MHz Alarm systems CEPT/ERC/REC70-03 (Annex 7)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 868,700-869,200 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 869,20-869,25 MHz Social Alarm Systems CEPT/ERC/DEC(97)06 CEPT/ERC/DEC(98)05-technical requirements 869,250-869,300 MHz Alarm systems CEPT/ERC/REC70-03 (Annex 7)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 869,400-869,650 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 869,650-869,700 MHz Alarm systems CEPT/ERC/REC70-03 (Annex 7)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 869,700-870,000 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(98)05-technical requirements 870,000-876,000 MHz Du Rx (+45 MHz) Reserved for TETRA civil CEPT/ERC/DEC(96)04</p>
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<p>960-1215 MHz AERONAUTICAL RADIONAVIGATION S5.328 Reserved on a worldwide basis for the use and development of airborne electronic aids to air navigation and any directly associated ground-based facilities</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	<p>Aeronautical radionavigation</p>
<p>1215-1240 MHz EARTH EXPLORATION- SATELLITE(active) RADIOLOCATION RADIONAVIGATION-SATELLITE (SE) SPACE-RESEARCH S5.329 Radionavigation-satellite service shall not cause harmful interference to the radionavigation service S5.331 In Sweden also allocated to the radionavigation service on a primary basis S5.332 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 other services allocated on a primary basis</p>	<p>RADIOLOCATION</p>	

<p>1240-1260 MHz EARTH EXPLORATION-SATELLITE(active) RADIOLOCATION RADIONAVIGATION-SATELLITE (SE) SPACE-REASEARCH(active) Amateur S5.329 Radionavigation-satellite service shall not cause harmful interference to the radionavigation service S5.331 In Sweden also allocated to the radionavigation service on a primary basis S5.332 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 other services allocated on a primary basis</p>	<p>RADIOLOCATION Amateur</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>
<p>1260-1300 MHz EARTH EXPLORATION-SATELLITE(active) RADIOLOCATION SPACE-REASEARCH(active) Amateur S5.282 In the band 1260-1270 MHz amateur-satellite service shall not cause harmful interference to other services S5.331 In Sweden also allocated to the radionavigation service on a primary basis S5.332 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 other services allocated on a primary basis</p>	<p>RADIOLOCATION Amateur Amateur-satellite 1260-1270 MHz</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>

<p>1300-1350 MHz AERONAUTICAL RADIO NAVIGATION S5.337 Aeronautical radionavigation is restricted to ground-based radars and associated airborne transponders Radiolocation S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service(spectral line observation) from harmful interference</p>	<p>AERONAUTICAL RADIO NAVIGATION Radiolocation</p>	<p>Governmental use type 2</p>
<p>1350-1400 MHz FIXED MOBILE RADIOLOCATION S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service(spectral line observation) from harmful interference S5.339 The band 1370-1400 MHz is also allocated to the space research (passive), earth exploration-satellite (passive) services on a secondary basis</p>	<p>FIXED</p>	<p>Fixed CEPT/ERC T/R 13-1 (Annex A and B)-channel arrangements Governmental use type 2</p>
<p>1400-1427 MHz EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>1427-1429 MHz SPACE OPERATION (ES) FIXED MOBILE except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED</p>	<p>Fixed CEPT/ERC T/R 13-1 (Annex B)-channel arrangements CEPT/ERC/DEC(99)10, (99)11 -technical requirements Governmental use type 2</p>

<p>1429-1452 MHz FIXED MOBILE except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions S5.342 Additional allocation: in Russia is also allocated to the aeronautical mobile (aeronautical telemetry) on a primary basis</p>	<p>FIXED</p>	<p>Fixed CEPT/ERC T/R 13-1 (Annex B)-channel arrangements CEPT/ERC/DEC(99)10, (99)11 -technical requirements Governmental use type 2</p>
<p>1452-1492 MHz FIXED MOBILE except aeronautical mobile BROADCASTING-SATELLITE S5.345 Use by the broadcasting-satellite service is limited to DAB BROADCASTING S5.345 Use by the broadcasting service is limited to DAB S5.341 By some countries used for search of extraterrestrial emissions S5.342 Additional allocation: in Russia is also allocated to the aeronautical mobile (aeronautical telemetry) on a primary basis</p>	<p>FIXED BROADCASTING</p>	<p>T-DAB Wiesbaden Special Arrangement 1995</p>
<p>1492-1525 MHz FIXED MOBILE except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions S5.342 Additional allocation: in Russia is also allocated to the aeronautical mobile (aeronautical telemetry) on a primary basis</p>	<p>FIXED</p>	<p>Fixed CEPT/ERC T/R 13-1 (Annex A)-channel arrangements CEPT/ERC/DEC(99)10, (99)11 -technical requirements Governmental use type 2</p>

<p>1525-1530 MHz SPACE OPERATION (SE) FIXED MOBILE-SATELLITE (SE) Earth Exploration-Satellite (SE) Mobile except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions S5.342 Additional allocation: in Russia is also allocated to the aeronautical mobile (aeronautical telemetry) on a primary basis S5.351 Shall not be used for feeder links of any service S5.354 Mobile-satellite service shall be coordinated under Res. 46</p>	<p>FIXED MOBILE SATELLITE(SE)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>
<p>1530-1533 MHz SPACE OPERATION (SE) MOBILE-SATELLITE (SE) S5.353A In mobile-satellite service priority shall be given for distress, urgency and safety communications of the GMDSS Earth Exploration-Satellite Fixed Mobile except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions S5.342 Additional allocation: in Russia is also allocated to the aeronautical mobile (aeronautical telemetry) on a primary basis S5.351 Shall not be used for feeder links of any service S5.354 Mobile-satellite service shall be coordinated under Res. 46</p>	<p>MOBILE SATELLITE (SE)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>

<p>1533-1535 MHz SPACE OPERATION (SE) MOBILE-SATELLITE (SE) S5.353A In mobile-satellite service priority shall be given for distress, urgency and safety communications of the GMDSS Earth Exploration-Satellite Fixed Mobile except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions S5.342 Additional allocation: in Russia is also allocated to the aeronautical mobile (aeronautical telemetry) on a primary basis S5.351 Shall not be used for feeder links of any service S5.354 Mobile-satellite service shall be coordinated under Res. 46</p>	<p>MOBILE SATELLITE (SE)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>
<p>1535-1544 MHz MOBILE-SATELLITE (SE) S5.341 By some countries used for search of extraterrestrial emissions S5.351 Shall not be used for feeder links of any service S5.353A In mobile-satellite service priority shall be given for distress, urgency and safety communications of the GMDSS S5.354 Mobile-satellite service shall be coordinated under Res. 46</p>	<p>MOBILE SATELLITE (SE)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>
<p>1544-1545 MHz MOBILE-SATELLITE (SE) S5.341 By some countries used for search of extraterrestrial emissions S5.354 Mobile-satellite service shall be coordinated under Res. 46 S5.356 Use is limited to distress and safety communications</p>	<p>MOBILE SATELLITE (SE)</p>	<p>1544,5 MHz Cospas-Sarsat (communication with local monitoring station)</p>

<p>1545-1555 MHz MOBILE-SATELLITE (SE) S5.341 By some countries used for search of extraterrestrial emissions S5.351 Shall not be used for feeder links of any service S5.354 Mobile-satellite service shall be coordinated under Res. 46 S5.357 From terrestrial aeronautical stations to aircraft stations, or between aircraft stations in the aeronautical mobile (R) service are transmissions also authorised for extension S5.357A In mobile-satellite service priority shall be given to the aeronautical mobile-satellite(R) service providing transmission of messages with priority 1 to 6 in Article S44 S5.359 Additional allocation: in Latvia and Russia the band 1550-1645.5 MHz also allocated to the fixed service on a primary basis (avoid any new implementation)</p>	<p>MOBILE SATELLITE (SE)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>
<p>1555-1559 MHz MOBILE-SATELLITE (SE) S5.341 By some countries used for search of extraterrestrial emissions S5.351 Shall not be used for feeder links of any service S5.354 Mobile-satellite service shall be coordinated under Res. 46 S5.359 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis (avoid any new implementation)</p>	<p>MOBILE SATELLITE (SE)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>

<p>1559-1610 MHz AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (SE) S5.341 By some countries used for search of extraterrestrial emissions S5.359 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis (avoid any new implementation) S5.363 Alternative allocation: in Sweden the band 1590-1626.5 MHz also allocated to the aeronautical radionavigation service on a primary basis</p>	<p>RADIONAVIGATION-SATELLITE</p>	<p>Governmental use type 2 GPS</p>
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<p>1610-1610.6 MHz AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (ES) S5.341 By some countries used for search of extraterrestrial emissions S5.359 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis (avoid any new implementation) S5.363 Alternative allocation: in Sweden also allocated to the aeronautical radionavigation service on a primary basis S5.364 Mobile-satellite (ES) and radiodetermination-satellite (ES) service shall be coordinated under Res. 46 S5.366 On a worldwide basis reserved for airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities S5.367 Additional allocation: also allocated to the aeronautical mobile-satellite(R) service on a primary basis S5.368 Radiodetermination-satellite and mobile-satellite services (except for the aeronautical radionavigation-satellite service) do not require any special measures for protection S5.371 Additional allocation: also allocated to the radiodetermination-satellite service on a secondary basis S5.372 Harmful interference shall not be caused to stations of the radio astronomy service by stations of the radiodetermination-satellite and mobile satellite services</p>	<p>MOBILE SATELLITE</p>	<p>S-PCS CEPT/ERC/DEC(97)03- licence exemption for terminal equipment</p>
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<p>1610.6-1613.8 MHz AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (ES) RADIO ASTRONOMY</p> <p>S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service(spectral line observation) from harmful interference</p> <p>S5.341 By some countries used for search of extraterrestrial emissions</p> <p>S5.359 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis (avoid any new implementation)</p> <p>S5.363 Alternative allocation: in Sweden also allocated to the aeronautical radionavigation service on a primary basis</p> <p>S5.364 Mobile-satellite (ES) and radiodetermination-satellite (ES) service shall be coordinated under Res. 46</p> <p>S5.366 On a worldwide basis reserved for airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities</p> <p>S5.367 Additional allocation: also allocated to the aeronautical mobile-satellite(R) service on a primary basis</p> <p>S5.368 Radiodetermination-satellite and mobile-satellite services (except for the aeronautical radionavigation-satellite service) do not require any special measures for protection</p> <p>S5.371 Additional allocation: also allocated to the radiodetermination-satellite service on a secondary basis</p> <p>S5.372 Harmful interference shall not be caused to stations of the radio astronomy service by stations of the radiodetermination-satellite and mobile satellite services</p>	<p>MOBILE SATELLITE (ES)</p>	<p>S-PCS CEPT/ERC/DEC(97)03- licence exemption for terminal equipment</p>
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<p>1613.8-1626.5 MHz AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (ES) Mobile Satellite (SE)</p> <p>S5.341 By some countries used for search of extraterrestrial emissions</p> <p>S5.359 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis (avoid any new implementation)</p> <p>S5.363 Alternative allocation: in Sweden also allocated to the aeronautical radionavigation service on a primary basis</p> <p>S5.364 Mobile-satellite (ES) and radiodetermination-satellite (ES) service shall be coordinated under Res. 46</p> <p>S5.365 Mobile-satellite service(SE) shall be coordinated under Res. 46</p> <p>S5.366 On a worldwide basis reserved for airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities</p> <p>S5.367 Additional allocation: also allocated to the aeronautical mobile-satellite(R) service on a primary basis</p> <p>S5.368 Radiodetermination-satellite and mobile-satellite services (except for the aeronautical radionavigation-satellite service) do not require any special measures for protection</p> <p>S5.371 Additional allocation: also allocated to the radiodetermination-satellite service on a secondary basis</p> <p>S5.372 Harmful interference shall not be caused to stations of the radio astronomy service by stations of the radiodetermination-satellite and mobile-satellite services</p>	<p>MOBILE SATELLITE (ES)</p>	<p>S-PCS CEPT/ERC/DEC(97)03- licence exemption for terminal equipment</p>
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<p>1626.5-1660 MHz</p> <p>MOBILE-SATELLITE (ES)</p> <p>S5.341 By some countries used for search of extraterrestrial emissions</p> <p>S5.351 Shall not be used for feeder links of any service</p> <p>S5.353A In mobile-satellite service priority shall be given for distress, urgency and safety communications of the GMDSS</p> <p>S5.354 Mobile-satellite service shall be coordinated under Res. 46</p> <p>S5.357A In the band 1646.5-1656.5 MHz in mobile-satellite service priority shall be given to the aeronautical mobile-satellite(R) service providing transmission of messages with priority 1 to 6 in Article S44</p> <p>S5.359 Additional allocation: in Latvia and Russia also allocated to the fixed service on a primary basis (avoid any new implementation)</p> <p>S5.374 In the bands 1631.5-1634.5 MHz 1656.5-1660 MHz mobile earth stations operating in mobile-satellite service shall not cause harmful interference to the stations in the fixed service in Latvia and Russia</p> <p>S5.375 In the band 1645.5-1646.5 MHz use by mobile-satellite(ES) service and inter-satellite links are limited to distress and safety communications</p> <p>S5.376 In the band 1646.5-1656.5 MHz also allowed transmissions to terrestrial aeronautical stations from aircraft stations, or between aircraft stations in the aeronautical mobile (R) service</p>	<p>MOBILE SATELLITE (ES)</p>	<p>Inmarsat -B, -C, -D, -M, -M4, mini-M (phone) and EMS-PRODAT, EMS-MSSAT terminals equipment for land mobile applications-licence exemption</p>
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<p>1660.5-1668.4 MHz RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.341 By some countries used for search of extraterrestrial emissions S5.379A All practicable protection shall be given to future research in radio astronomy</p>	<p>RADIO ASTRONOMY</p>	
<p>1668.4-1670 MHz METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED METEOROLOGICAL AIDS RADIO ASTRONOMY</p>	<p>Governmental use type 2</p>
<p>1670-1675 MHz METEOROLOGICAL AIDS FIXED METEOROLOGICAL SATELLITE (SE) MOBILE S5.380 On a worldwide basis for aeronautical public correspondence (transmission from aeronautical stations) S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED MOBILE /S5.380/</p>	<p>1670-1675 MHz TFTS (ground to air) CEPT/ERC/DEC(92)01, (97)08</p>

<p>1675-1690 MHz METEOROLOGICAL AIDS FIXED METEOROLOGICAL SATELLITE (SE) MOBILE except aeronautical mobile S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE</p>	<p>Governmental use type 2</p>
<p>1690-1700 MHz METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (SE) Fixed Mobile except aeronautical mobile S5.289 Earth exploration-satellite service application may also be used not causing harmful interference S5.341 By some countries used for search of extraterrestrial emissions S5.382 Different category of service: in Russia also allocated to the fixed and mobile, except aeronautical mobile services on a secondary basis</p>	<p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE Fixed</p>	<p>Governmental use type 2</p>
<p>1700-1710 MHz FIXED METEOROLOGICAL SATELLITE (SE) MOBILE except aeronautical mobile S5.289 Earth exploration-satellite service application may also be used not causing harmful interference S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>METEOROLOGICAL-SATELLITE</p>	<p>Governmental use type 2</p>

<p>1710-1885 MHz</p> <p>FIXED</p> <p>MOBILE S5.380</p> <p>On a worldwide basis for aeronautical public correspondence (transmission from aeronautical stations)</p> <p>S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p> <p>S5.341 By some countries used for search of extraterrestrial emissions</p> <p>S5.385 Additional allocation: the band 1718.8-1722.2 MHz also allocated to the radio astronomy (line spectral observation) service on a secondary basis</p> <p>S5.387 Additional allocation: in Russia the band 1770-1790 MHz also allocated to the meteorological-satellite service on a primary basis</p>	<p>FIXED</p> <p>MOBILE /S5.380/</p>	<p>Governmental use type 2</p> <p>1710-1785 MHz Du Rx (+95 MHz)</p> <p>Reserved for DCS-1800-licence exemption for terminal equipment</p> <p>CEPT/ERC/DEC(95)03</p> <p>CEPT T/R 22-07</p> <p>CEPT/ERC/DEC(98)06, (98)07- technical requirements</p> <p>Spectrum sharing between operators (Rx channels):</p> <p>DCS I-max 16 MHz bandwidth</p> <p>DCS II-max 16 MHz bandwidth</p> <p>DCS III-max 16 MHz bandwidth</p> <p>1800-1805 MHz</p> <p>TFTS (air to ground)</p> <p>CEPT/ERC/DEC(92)01, (97)08</p> <p>1805-1880 MHz Du Tx (-95 MHz)</p> <p>Reserved for DCS-licence exemption for terminal equipment</p> <p>CEPT/ERC/DEC(95)03</p> <p>CEPT T/R 22-07</p> <p>CEPT/ERC/DEC(98)06, (98)07- technical requirements</p> <p>Spectrum sharing between operators (Tx channels):</p> <p>DCS I-max 16 MHz bandwidth</p> <p>DCS II-max 16 MHz bandwidth</p> <p>DCS III-max 16 MHz bandwidth</p> <p>1880-1885 MHz DECT</p> <p>CEPT/ERC/DEC(94)03</p> <p>91/287/EEC-licence exemption</p>
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<p>1885-1930 MHz</p> <p>FIXED</p> <p>MOBILE S5.380</p> <p>On a worldwide basis for aeronautical public correspondence (transmission from aeronautical stations)</p> <p>S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p> <p>S5.341 By some countries used for search of extraterrestrial emissions</p> <p>S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 712</p>	<p>MOBILE</p> <p>FIXED until 1 January 2002</p>	<p>1885-1900 MHz DECT CEPT/ERC/DEC(94)03 91/287/EEC-licence exemption</p> <p>1902-1930 MHz Fixed links on the valid conditions at the moment of entry into force of TKS until 1 January 2002</p> <p>Governmental use type 2</p> <p>1900-1930 MHz Reserved for UMTS (terrestrial applications) CEPT/ERC/DEC(97)07, (99)25</p>
<p>1930-1980 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212</p>	<p>MOBILE</p> <p>FIXED until 1 January 2002</p>	<p>Fixed links on the valid conditions at the moment of entry into force of TKS until 1 January 2002</p> <p>1930-1980 MHz Reserved for UMTS (terrestrial applications) CEPT/ERC/DEC(97)07, (99)25</p>
<p>1980-2010 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (ES)</p> <p>S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212</p> <p>S5.389A Mobile-satellite service shall be coordinated under Res. 46 and Res. 716</p>	<p>MOBILE SATELLITE</p> <p>MOBILE</p>	<p>S-PCS CEPT/ERC/DEC(97)03-licence exemption for terminal equipment</p> <p>Reserved for UMTS (satellite component applications) CEPT/ERC/DEC(97)07.</p>
<p>2010-2025 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212</p>	<p>MOBILE</p>	<p>2010-2025 MHz Reserved for UMTS (terrestrial applications) CEPT/ERC/DEC(97)07, (99)25</p>

<p>2025-2110 MHz</p> <p>FIXED</p> <p>MOBILE S5.391 Mobile service shall not introduce high-density mobile systems (Rec. ITU-R SA.1154) and take into account any other type of mobile system described in this Rec.</p> <p>SPACE RESEARCH (ES) (SS)</p> <p>SPACE OPERATION (ES) (SS)</p> <p>EARTH EXPLORATION-SATELLITE (ES) (SS)</p> <p>S5.392 SS transmissions between non-geostationary satellites, in space research, space operations and Earth exploration-satellite services shall not impose any constraints on SE, ES or other SS transmissions and between geostationary and non-geostationary satellites</p>	<p>FIXED</p> <p>MOBILE</p>	<p>Fixed links CEPT/ERC T/R13-01(Annex C)-channel arrangements CEPT/ERC/DEC(99)08</p> <p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements</p>
<p>2110-2120 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>SPACE RESEARCH (deep space) (ES)</p> <p>S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212</p>	<p>MOBILE</p>	<p>2110-2120 MHz Reserved for UMTS (terrestrial applications) CEPT/ERC/DEC(97)07, (99)25</p>
<p>2120-2160 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212</p>	<p>MOBILE</p>	<p>2120-2160 MHz Reserved for UMTS (terrestrial applications) CEPT/ERC/DEC(97)07, (99)25</p>

<p>2160-2170 MHz FIXED MOBILE S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212 S5.392A Additional allocation: in Russia also allocated to the space research (SE) service on a primary basis until 01.01.2005</p>	<p>MOBILE</p>	<p>2160-2170 MHz Reserved for UMTS (terrestrial applications) CEPT/ERC/DEC(97)07, (99)25</p>
<p>2170-2200 MHz FIXED MOBILE MOBILE-SATELLITE (SE) S5.388 On a worldwide basis for IMT-2000 in accordance with Res. 212 S5.389A Mobile-satellite service shall be coordinated under Res. 46 and Res. 716 S5.392A Additional allocation: in Russia also allocated to the space research (SE) service on a primary basis until 01.01.2005</p>	<p>MOBILE MOBILE SATELLITE(SE)</p>	<p>S-PCS CEPT/ERC/DEC(97)03-licence exemption for terminal equipment Reserved for UMTS (satellite component applications) CEPT/ERC/DEC(97)07</p>
<p>2200-2290 MHz FIXED SPACE RESEARCH (SE) (SS) SPACE OPERATION (SE) (SS) EARTH EXPLORATION-SATELLITE (SE) (SS) MOBILE S5.391 Mobile service shall not introduce high-density mobile systems (Rec. ITU-R SA.1154) and take into account any other type of mobile system described in this Rec. S5.392 SS transmissions between non-geostationary satellites, in space research, space operations and Earth exploration-satellite services shall not impose any constraints on SE, ES or other SS transmissions and between geostationary and non-geostationary satellites</p>	<p>FIXED MOBILE</p>	<p>Fixed links CEPT/ERC T/R13-01(Annex C)-channel arrangements CEPT/ERC/DEC(99)08 Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements</p>

<p>2290-2300 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (SE)</p>	<p>FIXED</p>	
<p>2300-2400 MHz FIXED MOBILE Amateur Radiolocation</p>	<p>FIXED Radiolocation 2310-2400 MHz Amateur ISM applications</p>	<p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements Governmental use type 2 Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>
<p>2400-2450 MHz FIXED MOBILE Amateur Radiolocation S5.150 2400-2500 MHz (centre frequency 2450 MHz) for ISM applications S5.282 Amateur-satellite service not causing harmful interference to other services</p>	<p>FIXED MOBILE Amateur Amateur-satellite Radiolocation ISM applications</p>	<p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC70-03 (Annex 1)-licence exemption CEPT/ERC/DEC (99)07- technical requirements HIPERLAN and RLAN CEPT/ERC/REC70-03 (Annex 3)-licence exemption CEPT/ERC/DEC(96)17- technical requirements Equipment for Detecting Movement and equipment for Alert CEPT/ERC/REC70-03 (Annex 6)-licence exemption CEPT/ERC/DEC(99)07- technical requirements Amateur, types of emissions in accordance with IARU1 Frequency Plan Governmental use type 2</p>

<p>2450-2483.5 MHz FIXED MOBILE Radiolocation S5.150 2400-2500 MHz (centre frequency 2450 MHz) for ISM applications</p>	<p>FIXED MOBILE Radiolocation ISM applications</p>	<p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC70-03 (Annex 1)-licence exemption CEPT/ERC/DEC (99)07- technical requirements HIPERLAN and RLAN CEPT/ERC/REC70-03 (Annex 3)-licence exemption CEPT/ERC/DEC(96)17- technical requirements Equipment for Detecting Movement and equipment for Alert CEPT/ERC/REC70-03 (Annex 6)-licence exemption CEPT/ERC/DEC(99)07- technical requirements Governmental use type 2</p>
<p>2483.5-2500 MHz FIXED MOBILE MOBILE-SATELLITE (SE) Radiolocation S5.150 2400-2500 MHz (centre frequency 2450 MHz) for ISM applications S5.371 Additional allocation: also allocated to the radiodetermination-satellite service on a secondary basis S5.398 Radiodetermination-satellite services do not require any special measures for protection S5.399 Harmful interference shall not be caused to, or protection shall not be claimed from, stations of the radiolocation service by stations of radiodetermination satellite service S5.402 Radiodetermination-satellite services and mobile-satellite shall be coordinated under Res. 46</p>	<p>FIXED MOBILE MOBILE SATELLITE(SE) ISM applications</p>	<p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements Governmental use type 2 S-PCS CEPT/ERC/DEC(97)03- licence exemption for terminal equipment</p>

<p>2500-2520 MHz</p> <p>FIXED S5.409 Avoid developing tropospheric scatter systems</p> <p>S5.410 Tropospheric scatter systems are subject to No. S9.21</p> <p>S5.411 Tropospheric scatter radio-relay link avoid directing the antenna towards geostationary satellite orbit</p> <p>MOBILE except aeronautical mobile</p> <p>MOBILE-SATELLITE (SE)</p> <p>S5.403 Also may be used for the mobile-satellite(SE), except aeronautical mobile-satellite, service for operation limited to national boundaries</p> <p>S5.414 From 01.01.2005 mobile-satellite service and subject to coordination under Res 46</p>	<p>FIXED</p> <p>MOBILE except aeronautical mobile</p>	<p>Governmental use type 2</p>
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<p>2520-2655 MHz</p> <p>FIXED S5.409 Avoid developing tropospheric scatter systems S5.410 Tropospheric scatter systems are subject to No. S9.21 S5.411 Tropospheric scatter radio-relay link avoid directing the antenna towards geostationary satellite orbit</p> <p>MOBILE except aeronautical mobile</p> <p>BROADCASTING-SATELLITE S5.413 Radio astronomy shall be protected from broadcasting-satellite service S5.416 Broadcasting-satellite service is limited to national and regional systems for community reception S5.339 The band 2640-2655 MHz is also allocated to the space research (passive), earth exploration-satellite (passive) services on a secondary basis S5.403 The band 2520-2535 MHz may also be used for the mobile-satellite(SE), except aeronautical mobile-satellite, service for operation limited to national boundaries S5.412 Alternative allocation: in Russia is allocated to the fixed and mobile, except aeronautical mobile, service on a primary basis S5.418 Additional allocation: in Russia the band 2535-2655 MHz also allocated to the broadcasting-satellite service (sound) and complementary terrestrial broadcasting service on a primary basis</p>	<p>FIXED</p> <p>MOBILE except aeronautical mobile</p>	<p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements CEPT/ERC T/R13-01(Annex D)-channel arrangements CEPT/ERC/DEC(99)08-technical requirements</p>
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<p>2655-2670 MHz</p> <p>FIXED S5.409 Avoid developing tropospheric scatter systems S5.410 Tropospheric scatter systems are subject to No.S9.21 S5.411 Tropospheric scatter radio-relay link avoid directing the antenna towards geostationary satellite orbit MOBILE except aeronautical mobile BROADCASTING-SATELLITE S5.413 Radio astronomy shall be protected from broadcasting-satellite service S5.416 Broadcasting-satellite service is limited to national and regional systems for community reception Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.412 Alternative allocation: in Russia is allocated to the fixed and mobile, except aeronautical mobile, service on a primary basis S5.420 May also be used for the mobile-satellite (ES), except aeronautical mobile-satellite, service for operation limited to national boundaries, coordinated under Res. 46</p>	<p>FIXED MOBILE except aeronautical mobile</p>	<p>Point-to-multipoint fixed networks CEPT/ERC/DEC(99)10, (99)11- technical requirements CEPT/ERC T/R13-01(Annex D)-channel arrangements CEPT/ERC/DEC(99)08-technical requirements</p>
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<p>2670-2690 MHz</p> <p>FIXED S5.409 Avoid developing tropospheric scatter systems S5.410 Tropospheric scatter systems are subject to No. S9.21 S5.411 Tropospheric scatter radio-relay link avoid directing the antenna towards geostationary satellite orbit</p> <p>MOBILE except aeronautical mobile MOBILE-SATELLITE (ES) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p> <p>S5.419 Allocation to mobile-satellite service will be effective from 01.01.2005</p> <p>S5.420 May also until 01.01.2005 be used for the mobile-satellite (ES), except aeronautical mobile-satellite, service for operation limited to national boundaries, coordinated under Rec. 16</p>	<p>FIXED</p> <p>MOBILE except aeronautical mobile</p>	
<p>2690-2700 MHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>S5.340 All emissions prohibited</p> <p>S5.422 Additional allocation: in Russia also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis, limited to equipment in operation by 01.01.1985</p>	<p>ALL EMISSIONS PROHIBITED</p>	

<p>2700-2900 MHz AERONAUTICAL RADIO NAVIGATION S5.337 Aeronautical radionavigation is restricted to ground-based radars and associated airborne transponders Radiolocation S5.423 Ground-based radars for meteorological purposes on a basis of equality with stations of the aeronautical radionavigation service also authorized</p>	<p>AERONAUTICAL RADIO NAVIGATION</p>	<p>Aeronautical radionavigation Governmental use type 2</p>
<p>2900-3100 MHz RADIO NAVIGATION S5.426 Aeronautical radionavigation service limited to ground-based radars Radiolocation S5.425 Shipborne interrogator-transponder system (SIT) are confined to 2930-2950 MHz S5.427 Response from radar transponders shall not be confused with response from radar beacons and cause interference to ship or aeronautical radars in the radionavigation service</p>	<p>RADIO NAVIGATION Radiolocation</p>	<p>Radiolocation Governmental use type 2</p>
<p>3100-3300 MHz RADIO LOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>RADIO LOCATION</p>	<p>Governmental use type 2</p>
<p>3300-3400 MHz RADIO LOCATION S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>RADIO LOCATION</p>	<p>Governmental use type 2</p>

3400-3600 MHz FIXED FIXED SATELLITE (SE) Mobile Radiolocation	FIXED FIXED SATELLITE (SE) Radiolocation	3408,5-3600 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001 Channel arrangements- CEPT/ERC/REC 14-03 (Annex III) FWA CEPT/ERC/REC 13-04 after 1 January 2001 Spectrum sharing: FWA I – 2*14 MHz, FWA II – 2* 14 MHz, FWA III – 2*14 MHz, FWA IV – 2*14 MHz - after 1 January 2003, FWA V – 2*14 MHz - after 1 January 2003
PART III. RADIO FREQUENCY RANGE 3600 MHz to 275 GHz		
Regime and purpose of use of radio frequency band determined by the Radio Regulations annexed to the Convention and Constitution of the International Telecommunication Union	Regime and purpose of use of radio frequency band in Estonia	Method of use of radio frequency band in Estonia
3600-4200 MHz FIXED FIXED SATELLITE (SE) Mobile	FIXED FIXED SATELLITE (SE)	3600-3632,5 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001 3674,5-3898,5 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001 Channel arrangements- CEPT/ERC/REC 12-08

<p>4200-4400 MHz AERONAUTICAL RADIONAVIGATION S5.438 Aeronautical radionavigation is limited to radio altimeters on board aircraft and for the associated transponders on the ground, however passive sensing and space research may be authorised on a secondary basis S5.440 Standard frequency and time signal-satellite service may use 4202 MHz (± 2 MHz) (SE)</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	<p>Radio altimeters</p>
<p>4400-4500 MHz FIXED MOBILE</p>	<p>FIXED</p>	<p>High and medium capacity fixed links</p>
<p>4500-4800 MHz FIXED FIXED SATELLITE (SE) S5.441 Use by fixed-satellite service shall be in accordance with App. S30B MOBILE</p>	<p>FIXED FIXED SATELLITE (SE)</p>	<p>Governmental use type 2</p>
<p>4800-4990 MHz FIXED MOBILE S5.442 Allocation for mobile services in the bands 4825-4835 MHz and 4950-4990 MHz is restricted to the mobile, except aeronautical mobile, services Radio Astronomy S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.339 The band 4950-4990 MHz is also allocated to the space research (passive), earth exploration-satellite (passive) services on a secondary basis</p>	<p>FIXED MOBILE Radio Astronomy</p>	<p>Governmental use type 1</p>

<p>4990-5000 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive) S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>FIXED RADIO ASTRONOMY</p>	<p>Governmental use type 2</p>
<p>5000-5150 MHz AERONAUTICAL RADIONAVIGATION S5.367 Additional allocation: also allocated to the aeronautical mobile-satellite(R) service on a primary basis S5.444 To be used for microwave landing system for precision approach and landing S5.444A Additional allocation: the band 5091-5150 MHz also allocated to the fixed-satellite service on a primary basis, coordination under Res.46</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	<p>5030-5150 MHz Microwave Landing System</p>

<p>5150-5250 MHz AERONAUTICAL RADIO NAVIGATION FIXED-SATELLITE(ES) S5.447A Fixed-satellite service (ES) limited to feeder-links of non-geostationary-satellite systems in the mobile-satellite service, coordination under Res. 46 S5.446 The band 5150-5216 MHz is also allocated to radiotermination-satellite service(SE) on a secondary basis S5.447 Additional allocation: in Finland and Sweden also allocated to mobile service in a primary basis S5.447B Additional allocation: the band 5150-5216 MHz also allocated to the fixed satellite service (SE) on a primary basis, limited to feeder-links of non-geostationary-satellite systems in the mobile-satellite service, coordination under Res. 46</p>	<p>AERONAUTICAL RADIO NAVIGATION Fixed</p>	<p>5150-5250 MHz HIPERLAN CEPT/ERC/DEC(99)23 (on condition not to cause harmful interference and not to claim protection, indoor use, e.i.r.p.<200 mW)-licence exemption</p>
<p>5250-5255 MHz EARTH-EXPLORATION SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.447D Space research services on a primary basis are limited to active spaceborne sensors, other space research services on a secondary basis S5.448A Earth exploration- satellite (active) and space research (active) shall not constain development and denpoment radionavigation service</p>	<p>RADIOLOCATION Fixed</p>	<p>5250-5255 MHz HIPERLAN CEPT/ERC/DEC(99)23 (on condition not to cause harmful interference and not to claim protection, indoor use, e.i.r.p.<200 mW) CEPT/ERC/REC70-03 (Annex 3) (not to cause harmful interference and not to claim protection)-licence exemption</p>

<p>5255-5350 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) S5.448A Earth exploration- satellite (active) and space research (active) shall not constain development and deployment radionavigation service</p>	<p>RADIOLOCATION 5255-5300 MHz Fixed</p>	<p>5255-5350 MHz HIPERLAN CEPT/ERC/DEC(99)23 (on condition not to cause harmful interference and not to claim protection, indoor use, e.i.r.p.<200 mW) CEPT/ERC/REC70-03 (Annex 3) (not to cause harmful interference and not to claim protection)-licence exemption</p>
<p>5350-5460 MHz EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION S5.449 Aeronautical radionavigation service is limited to airborne radars and associated airborne beacons Radiolocation S5.448B Earth exploration-satellite service (active) shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service</p>	<p>AERONAUTICAL RADIONAVIGATION Radiolocation</p>	<p>Governmental use type 2</p>
<p>5460-5470 MHz RADIONAVIGATION S5.449 Aeronautical radionavigation service is limited to airborne radars and associated airborne beacons Radiolocation</p>	<p>RADIONAVIGATION Radiolocation</p>	<p>Governmental use type 2</p>
<p>5470-5650 MHz MARITIME RADIONAVIGATION Radiolocation S5.452 In the band 5600-5650 MHz ground-based radars for meteorological purposes are authorised on a basis of equality with stations of the maritime radionavigation service</p>	<p>MARITIME RADIONAVIGATION Radiolocation</p>	<p>Governmental use type 2 5470-5725 MHz HIPERLAN CEPT/ERC/DEC(99)23 (on condition not to cause harmful interference and not to claim protection, e.i.r.p.<1W)-licence exemption</p>

<p>5650-5725 MHz RADIOLOCATION Amateur Space Research (deep space) S5.282 In the band 5650-5670 MHz amateur-satellite service not causing harmful interference to other services S5.454 Different category of service: In Russia the band 5670-5725 MHz also allocated to the space research service on a primary basis S5.455 Additional allocation: in Russia the band 5670-5850 MHz also allocated to the fixed service on a primary basis</p>	<p>RADIOLOCATION 5650-5725 MHz Amateur 5650-5670 MHz Amateur-satellite Fixed</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 5675-5725 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2005 5470-5725 MHz HIPERLAN CEPT/ERC/DEC(99)23 (on condition not to cause harmful interference and not to claim protection, e.i.r.p.<1W)-licence exemption</p>
<p>5725-5830 MHz FIXED SATELLITE (ES) RADIOLOCATION Amateur S5.150 5725-5875 MHz (centre frequency 5800 MHz) for ISM applications S5.455 Additional allocation: in Russia the band 5670-5850 MHz also allocated to the fixed service on a primary basis</p>	<p>FIXED SATELLITE (ES) RADIOLOCATION Amateur ISM applications Fixed</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 5725-5875 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(99)07-technical requirements 5795-5805 MHz RTTT CEPT/ERC/DEC(92)02 CEPT/ERC/REC 70-03 (Annex 5)-licence exemption CEPT/ERC/DEC(99)07-technical requirements Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>

<p>5830-5850 MHz FIXED SATELLITE (ES) RADIOLOCATION Amateur Amateur-satellite (SE) S5.150 5725-5875 MHz (centre frequency 5800 MHz) for ISM applications S5.455 Additional allocation: in Russia also allocated to the fixed service on a primary basis</p>	<p>FIXED SATELLITE (ES) RADIOLOCATION Amateur Amateur-satellite ISM applications Fixed</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 5725-5875 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(99)07-technical requirements Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>
<p>5850-5925 MHz FIXED FIXED SATELLITE (ES) MOBILE S5.150 5725-5875 MHz (centre frequency 5800 MHz) for ISM applications</p>	<p>FIXED FIXED SATELLITE (ES) ISM applications</p>	<p>5725-5875 MHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(99)07-technical requirements 5850-5899 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>
<p>5925-6700 MHz FIXED FIXED SATELLITE (ES) MOBILE S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service(spectral line observation) from harmful interference in the band 6650-6675.2 MHz S5.440 Standard frequency and time signal-satellite service may use 6427 MHz (± 2 MHz) (SE) S5.458 In the 6425-7075 MHz passive microwave sensor measurements are carried out over the oceans</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>5941-6165 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2005 5925-6425 MHz Fixed links CEPT/ERC/REC 14-01 after 1 January 2005 6425-7075 MHz Fixed links CEPT/ERC/REC 14-02</p>

<p>6700-7075 MHz</p> <p>FIXED</p> <p>FIXED SATELLITE (ES) (SE)</p> <p>S5.441 Use in the band 6725-7025 MHz by fixed-satellite service shall be in accordance with App. S30B</p> <p>MOBILE</p> <p>S5.458 In the 6425-7075 MHz passive microwave sensor measurements are carried out over the oceans</p> <p>S5.458A Spectral line observations of the radio astronomy service in the band 6650-6675.2 MHz shall be protected from harmful interference</p> <p>S.458B Space-to-earth allocation to the fixed-satellite service is limited to feeder-links for non-geostationary satellite systems of the mobile-satellite service, coordination under Res. 46</p> <p>S5.458C While making submissions in the band 7025-7075 MHz for geostationary-satellite systems in the fixed-satellite service administrations shall consult with those that have notified and brought into use non-geostationary systems</p>	<p>FIXED</p> <p>FIXED SATELLITE (ES)</p>	<p>6700-7075 MHz</p> <p>Fixed links</p> <p>CEPT/ERC/REC 14-02</p>
<p>7075-7250 MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>S5.458 Passive microwave sensor measurements are carried out over the oceans</p> <p>S5.459 Additional allocation: in Russia the bands 7100-7155 MHz and 7190-7235 MHz also allocated to the space operation service (ES) on a primary basis</p> <p>S5.460 Additional allocation: the band 7145-7235 MHz also allocated to the space research service (ES) on a primary basis, use of the band 7145-7190 MHz restricted to deep space, no emissions to deep space shall be effected in the band 7190-7235 MHz</p>	<p>FIXED</p>	<p>7075-7125 MHz</p> <p>Fixed links</p> <p>CEPT/ERC/REC 14-02</p> <p>7125-7250 MHz</p> <p>Fixed links (ITU-R F.385) on the valid conditions at the moment of entry into force of TKS</p>

<p>7250-7300 MHz FIXED FIXED SATELLITE (SE) MOBILE S5.461 Additional allocation: also allocated to mobile-satellite service (SE) on a primary basis</p>	<p>FIXED FIXED SATELLITE (SE)</p>	<p>Fixed links ITU-R F.385 Fixed links based on OIRT arrangement plan on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>
<p>7300-7450 MHz FIXED FIXED SATELLITE (SE) MOBILE except aeronautical mobile S5.461 Additional allocation: the band 7250-7375 MHz also allocated to mobile-satellite service (SE) on a primary basis</p>	<p>FIXED FIXED SATELLITE (SE)</p>	<p>7424,5-7450 MHz Fixed links ITU-R F.385</p>
<p>7450-7550 MHz FIXED FIXED SATELLITE (SE) METEOROLOGICAL SATELLITE (SE) MOBILE except aeronautical mobile S5.461A Meteorological satellite service (SE) is limited to geostationary systems</p>	<p>FIXED FIXED SATELLITE (SE)</p>	<p>Governmental use type 2</p>
<p>7550-7750 MHz FIXED FIXED SATELLITE (SE) MOBILE except aeronautical mobile</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE until 1 January 2005</p>	<p>Governmental use type 2 Video distribution mobile stations on the valid conditions at the moment of entry into force of TKS until 1 January 2005</p>
<p>7750-7850 MHz FIXED METEOROLOGICAL-SATELLITE (SE) S5.461B Meteorological-satellite service (SE) is limited to non-geostationary systems MOBILE except aeronautical mobile</p>	<p>FIXED</p>	<p>Governmental use type 2</p>

<p>7850-7900 MHz FIXED MOBILE except aeronautical mobile</p>	<p>FIXED</p>	<p>Governmental use type 2</p>
<p>7900-8025 MHz FIXED FIXED SATELLITE (ES) MOBILE S5.461 Additional allocation: also allocated to mobile-satellite service (ES) on a primary basis</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>7912-8025 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001</p>
<p>8025-8175 MHz EARTH EXPLORATION-SATELLITE (SE) FIXED FIXED SATELLITE (ES) MOBILE S5.462A Earth exploration-satellite service using geostationary satellites shall be subjects to study under Res.124 S5.463 Aircraft stations are not permitted to transmit</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>8025-8136 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001</p>
<p>8175-8215 MHz EARTH EXPLORATION-SATELLITE (SE) FIXED FIXED SATELLITE (ES) METEOROLOGICAL SATELLITE (ES) MOBILE S5.462A Earth exploration-satellite service using geostationary satellites shall be subjects to study under Res.124 S5.463 Aircraft stations are not permitted to transmit</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>8178-8215 MHz Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001</p>

<p>8215-8400 MHz EARTH EXPLORATION-SATELLITE (SE) FIXED FIXED SATELLITE (ES) MOBILE S5.462A Earth exploration-satellite service using geostationary satellites shall be subjects to study under Res.124 S5.463 Aircraft stations are not permitted to transmit</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>Fixed links (OIRT II) on the valid conditions at the moment of entry into force of TKS until 1 January 2001</p>
<p>8400-8500 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (SE) S5.465 Space research in the band 8400-8450 MHz is limited to deep space</p>	<p>FIXED</p>	<p>Fixed 8400-8402 MHz Fixed links based on OIRT II arrangement plan on the valid conditions at the moment of entry into force of TKS until 1 January 2001</p>
<p>8500-8550 MHz RADIOLOCATION S5.469 Additional allocation: in Russia also allocated to the land mobile and radionavigation services on a primary basis</p>	<p>RADIOLOCATION</p>	
<p>8550-8650 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) S5.469 Additional allocation: in Russia also allocated to the land mobile and radionavigation services on a primary basis S5.469A Stations in the earth exploration-satellite (SE) and space research (active) service shall not cause interference to the stations in the radiolocation service</p>	<p>RADIOLOCATION</p>	

<p>8650-8750 MHz RADIOLOCATION S5.469 Additional allocation: in Russia also allocated to the land mobile and radionavigation services on a primary basis</p>	RADIOLOCATION	
<p>8750-8850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 Aeronautical radionavigation is limited to airborne Doppler navigation aids on a centre frequency of 8800 MHz</p>	RADIOLOCATION AERONAUTICAL RADIONAVIGATION	Governmental use type 2
<p>8850-9000 MHz RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Maritime radionavigation is limited to shore-based radars S5.473 Additional allocation: in Russia also allocated to the radionavigation on a primary basis</p>	RADIOLOCATION MARITIME RADIONAVIGATION	Governmental use type 2
<p>9000-9200 MHz AERONAUTICAL RADIONAVIGATION S5.337 Aeronautical radionavigation is restricted to ground-based radars and associated airborne transponders Radiolocation</p>	AERONAUTICAL RADIONAVIGATION Radiolocation	Governmental use type 2
<p>9200-9300 MHz RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Maritime radionavigation in the band 9200-9225 MHz is limited to shore-based radars S5.473 Additional allocation: in Russia also allocated to the radionavigation on a primary basis S5.474 SART may be used, having due regard to the appropriate ITU-R Recommendation</p>	RADIOLOCATION MARITIME RADIONAVIGATION	Governmental use type 2 SART

<p>9300-9500 MHz</p> <p>RADIONAVIGATION S5.476 In the band 9300-9320 MHz in the radionavigation service the use of shipborne radars, other than those existing on 01.01.1976, is not permitted until 01.01.2001</p> <p>Radiolocation</p> <p>S5.427 Response from radar transponders shall not be confused with response from radar beacons and cause interference to ship or aeronautical radars in the radionavigation service</p> <p>S5.474 SART may be used, having due regard to the appropriate ITU-R Recommendation</p> <p>S5.475 Aeronautical radionavigation service is limited to airborne weather radars and ground-based radars, in the band 9300-9320 MHz ground-based radar beacons are permitted which do not cause harmful interference to the maritime radionavigation service</p>	<p>RADIONAVIGATION</p> <p>Radiolocation</p>	<p>Governmental use type 2</p> <p>SART</p>
<p>9500-9800 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>RADIOLOCATION</p> <p>RADIONAVIGATION</p> <p>SPACE RESEARCH (active)</p> <p>S5.476A Stations in earth exploration-satellite(active) and space research (active) service shall not cause harmful interference to stations in radiolocation and radionavigation services</p>	<p>RADIOLOCATION</p> <p>RADIONAVIGATION</p>	<p>Governmental use type 2</p>

<p>9800-10000 MHz RADIOLOCATION Fixed S5.477 In Sweden allocated to the fixed service on a primary basis S5.479 The band 9975-10025 MHz also allocated to the meteorological-satellite service on a secondary basis for use by weather radars</p>	RADIOLOCATION	Governmental use type 2
<p>10-10.45 GHz FIXED MOBILE RADIOLOCATION Amateur S5.479 The band 9975-10025 MHz also allocated to the meteorological-satellite service on a secondary basis for use by weather radars</p>	FIXED RADIOLOCATION Amateur	FIXED Amateur, types of emissions in accordance with IARU1 Frequency Plan 10,15-10,30 GHz Fixed links CEPT/ERC/REC 12-05 10,15-10,30 GHz FWA CEPT/ERC/REC 13-04
<p>10.45-10.5 GHz RADIOLOCATION Amateur Amateur-Satellite</p>	RADIOLOCATION Amateur Amateur-satellite	Amateur, types of emissions in accordance with IARU1 Frequency Plan
<p>10.5-10.55 GHz FIXED MOBILE Radiolocation</p>	FIXED	10,50-10,55 Fixed links CEPT/ERC/REC 12-05 10,50-10,55 GHz FWA CEPT/ERC/REC 13-04
<p>10.55-10.6 GHz FIXED MOBILE except aeronautical mobile Radiolocation</p>	FIXED	10,55-10,65 GHz Fixed links CEPT/ERC/REC 12-05 10,55-10,65 GHz FWA CEPT/ERC/REC 13-04

<p>10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.482 Fixed and mobile, except aeronautical mobile, services shall be limited to a maximum equivalent isotropically radiated power 40 dBW and the power delivered to the antenna shall not exceed -3 dBW, not applicable in Latvia and Russia</p>	<p>FIXED</p>	<p>10,55-10,65 GHz Fixed links CEPT/ERC/REC 12-05 10,55-10,65 GHz FWA CEPT/ERC/REC 13-04</p>
<p>10.68-10.7 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited, except for Latvia and Russia S5.483 Additional allocation: in Latvia and Russia also allocated to fixed and mobile, except aeronautical mobile, services on a primary basis, limited to equipment in operation by 01.01.1985</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>10.7-11.7 GHz FIXED FIXED-SATELLITE (SE) (ES) S5.441 Use of the band 10.7-10.95 GHz (SE) by geostationary systems in the fixed-satellite service shall be in accordance with App. S30B, by non-geostationary systems with Res. 130 S5.484 Fixed-satellite service (ES) is limited to feeder links for broadcasting-satellite service MOBILE except aeronautical mobile</p>	<p>FIXED FIXED SATELLITE (SE) (ES)</p>	<p>Fixed links ITU-R F.387 Licence exemption for Arcanet suitcase and Omnitrac terminals equipment Broadcasting (satellite)</p>

<p>11.7-12.5 GHz FIXED BROADCASTING BROADCASTING-SATELLITE Mobile except aeronautical mobile S5.487 Other services shall not cause harmful interference to broadcasting-satellite stations operating in accordance with App. S30 S5.487A Additional allocation: also allocated to fixed-satellite service (SE), limited to non-geostationary systems subject to Res. 538, on a primary basis S5.492 Assignments to BSS plan in App. S30 may also be used for transmission in FSS (SF)</p>	<p>FIXED SATELLITE (SE) (ES) BROADCASTING-SATELLITE</p>	<p>Broadcasting (satellite) (planned)</p>
<p>12.5-12.75 GHz FIXED-SATELLITE (SE) (ES) S5.484A Fixed-satellite service is subject to Res. 130</p>	<p>FIXED SATELLITE (SE) (ES)</p>	<p>Licence exemption for Arcanet suitcase and Omnitrac terminals equipment</p>
<p>12.75-13.25 GHz FIXED FIXED-SATELLITE (ES) S5.441 Use by geostationary systems in the fixed-satellite service shall be in accordance with App. S30B, by non-geostationary systems with Res. 130 MOBILE Space Research (deep space)(SE)</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>Fixed links CEPT/ERC/REC 12-02 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>

<p>13.25-13.4 GHz EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION S5.497 Aeronautical radionavigation is limited to Doppler navigation aids SPACE RESEARCH (active) S5.498A Earth exploration-satellite (active) and space research(active) services shall not cause harmful interference to aeronautical radionavigation service</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	
<p>13.4-13.75 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH Standard Frequency and Time Signal-Satellite (ES) S5.501A Space research service on a primary basis is limited to active space-borne sensors, other uses on a secondary basis S5.501B Earth exploration-satellite (active) and space research (atvice) services shall not cause harmful interference to the radiolocation service</p>	<p>RADIOLOCATION</p>	<p>Governmental use type 2</p>

<p>13.75-14 GHz</p> <p>RADIOLOCATION</p> <p>FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130</p> <p>Standard Frequency and Time Signal-Satellite (ES)</p> <p>Space Research</p> <p>S5.502 From any earth station the emission in the fixed-satellite service shall be 68dBW<e.i.r.p.<85 dBW with antenna diameter>4.5 m, average e.i.r.p. radiated by stations in the radiolocation or radionavigation services towards geostationary-satellite orbits <59 dBW</p> <p>S5.503 Existing geostationary space stations in space research service on an equal basis with stations in fixed-satellite service, new geostationary space stations in space research service will operate on a secondary basis</p> <p>S5.503A Until 01.01.2000 stations in fixed-satellite service shall not cause harmful interference to non-geostationary space stations in space research and earth exploration service, after this date non-geostationary space stations will operate on a secondary basis in relation to fixed satellite service</p>	<p>RADIOLOCATION</p> <p>FIXED SATELLITE (ES)</p>	
<p>14-14.25 GHz</p> <p>FIXED-SATELLITE (ES)</p> <p>S5.484A Fixed-satellite service is subject to Res. 130</p> <p>RADIONAVIGATION S5.504 Radionavigation service shall provide sufficient protection to space stations of the fixed-satellite service</p> <p>Mobile-Satellite (ES) except aeronautical mobile-satellite</p> <p>Space Research</p>	<p>FIXED SATELLITE (ES)</p> <p>RADIONAVIGATION</p> <p>Mobile satellite (ES) except aeronautical mobile-satellite</p>	<p>SNG and VSAT CEPT/ERC/REC 13-03</p> <p>Licence exemption for Arcanet suitcase and Omnitrac terminals equipment</p>

<p>14.25-14.3 GHz FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 RADIONAVIGATION S5.504 Radionavigation service shall provide sufficient protection to space stations of the fixed-satellite service Mobile-Satellite (ES) except aeronautical mobile-satellite Space Research</p>	<p>FIXED SATELLITE (ES) RADIONAVIGATION Mobile satellite (ES) except aeronautical mobile-satellite</p>	<p>SNG and VSAT CEPT/ERC/REC 13-03</p>
<p>14.3-14.4 GHz FIXED FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 MOBILE except aeronautical mobile Mobile-Satellite (ES) except aeronautical mobile-satellite Radionavigation-Satellite</p>	<p>FIXED SATELLITE (ES) Mobile satellite (ES) except aeronautical mobile-satellite</p>	<p>SNG and VSAT CEPT/ERC/REC 13-03</p>
<p>14.4-14.47 GHz FIXED FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 MOBILE except aeronautical mobile Mobile-Satellite (ES) except aeronautical mobile-satellite Space Research (SE)</p>	<p>FIXED SATELLITE (ES) Mobile satellite (ES) except aeronautical mobile-satellite</p>	<p>SNG and VSAT CEPT/ERC/REC 13-03</p>

<p>14.47-14.5 GHz FIXED FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 MOBILE except aeronautical mobile Mobile-Satellite (ES) except aeronautical mobile-satellite Radio Astronomy S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>FIXED SATELLITE (ES) Mobile satellite (ES) except aeronautical mobile-satellite</p>	<p>SNG and VSAT CEPT/ERC/REC 13-03</p>
<p>14.5-14.8 GHz FIXED FIXED-SATELLITE (ES) S5.510 Fixed-satellite(ES) is limited to feeder links for broadcasting-satellite service MOBILE Space Research</p>	<p>FIXED MOBILE FIXED-SATELLITE (ES)</p>	<p>Fixed links Channel arrangements- CEPT/ERC/REC 12-07 (for channels reserved before 1 August 2000 channel arrangements based on ITU-R F.636 until 1 January 2011) CEPT/ERC/DEC(99)12, (99)13-technical requirements 14,62-15,23 GHz Radio links reserved before 1 August 2000 valid until 1 January 2011 (planned for military exclusive use)</p>

<p>14.8-15.35 GHz FIXED MOBILE Space Research S5.339 The band 15.20-15.35 GHz is also allocated to the space research (passive), earth exploration-satellite (passive) services on a secondary basis</p>	<p>FIXED MOBILE</p>	<p>Fixed links Channel arrangements- CEPT/ERC/REC 12-07 (for channels reserved before 1 August 2000 channel arrangements based on ITU-R F.636 until 1 January 2011) CEPT/ERC/DEC(99)12, (99)13-technical requirements 14,62-15,23 GHz Radio links reserved before 1 August 2000 valid until 1 January 2011 (planned for military exclusive use) 14,854-14,864 GHz Governmental use type 1 14,914-14,921 GHz Governmental use type 1 15,274-15,284 GHz Governmental use type 1 15,334-15,341 GHz Governmental use type 1</p>
<p>15.35-15.4 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>15.4-15.43 GHz AERONAUTICAL RADIONAVIGATION S5.511D Systems in fixed-satellite service for which complete information for advanced publication was received before 21.11.1997 may operate, pfd limit on the Earth's surface is -146 dB(W/m²/MHz)</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	

<p>15.43-15.63 GHz FIXED-SATELLITE (SE)(ES) S5.511A Fixed-satellite service is limited to feeder links of non-geostationary systems in mobile-satellite service, coordinated under Res. 46</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>S5.511C Maximum e.i.r.p. and minimum coordination distance for protection of aeronautical radionavigation service shall be in accordance with Rec. ITU-R S 1340</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	
<p>15.63-15.7 GHz AERONAUTICAL RADIONAVIGATION S5.511D Systems in fixed-satellite service for which complete information for advanced publication was received before 21.11.1997 may operate, pfd limit on Earth's surface is -146 dB (W/m²/MHz), in band 15.63-15.65 GHz shall not cause harmful interference to aeronautical radionavigation service</p>	<p>AERONAUTICAL RADIONAVIGATION</p>	
<p>15.7-16.6 GHz RADIOLOCATION S5.512 Additional allocation: in Finland aslo allocated to the fixed and mobile services on a primary basis</p>	<p>RADIOLOCATION</p>	
<p>16.6-17.1 GHz RADIOLOCATION Space Research (deep space)(ES) S5.512 Additional allocation: in Finland aslo allocated to the fixed and mobile services on a primary basis</p>	<p>RADIOLOCATION</p>	

<p>17.1-17.2 GHz RADIOLOCATION S5.512 Additional allocation: in Finland also allocated to the fixed and mobile services on a primary basis</p>	<p>RADIOLOCATION Fixed</p>	<p>HIPERLAN (on condition not to cause harmful interference and not to claim protection) CEPT/ERC/REC 70-03 (Annex 3)-licence exemption</p>
<p>17.2-17.3 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) S5.512 Additional allocation: in Finland also allocated to the fixed and mobile services on a primary basis S5.513A Spaceborne active sensors shall not cause harmful interference to the radiolocation and other services allocated on a primary basis</p>	<p>RADIOLOCATION Fixed</p>	<p>HIPERLAN (on condition not to cause harmful interference and not to claim protection) CEPT/ERC/REC 70-03 (Annex 3)-licence exemption</p>
<p>17.3-17.7 GHz FIXED-SATELLITE (ES) S5.516 Fixed-satellite service use by geostationary-satellite systems is limited to feeder links for the broadcasting-satellite service, subject to Res. 538 Radiolocation S5.514 Additional allocation: in Finland and Sweden also allocated to fixed and mobile services on a secondary basis</p>	<p>FIXED SATELLITE (ES) Radiolocation</p>	

<p>17.7-18.1 GHz FIXED FIXED-SATELLITE (SE) (ES) S5.484A Fixed-satellite(SE) service is subject to Res. 130, non-geostationary systems in fixed-satellite service are also subject to Res. 538 S5.516 Fixed-satellite(ES) service use by geostationary-satellite systems is limited to feeder links for the broadcasting-satellite service, subject to Res. 538 MOBILE</p>	<p>FIXED FIXED SATELLITE (SE) (ES)</p>	<p>Fixed links CEPT/ERC/REC 12-03 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>
<p>18.1-18.4 GHz FIXED FIXED-SATELLITE (SE) (ES) S5.484A Fixed-satellite(SE) service is subject to Res. 130 S5.520 Fixed-satellite (ES) service is limited to feeder links for the broadcasting-satellite service MOBILE S5.519 Additional allocation: band 18.1-18.3 GHz also allocated to the meteorological-satellite service (SE) on a primary basis</p>	<p>FIXED FIXED SATELLITE (SE) (ES)</p>	<p>Fixed links CEPT/ERC/REC 12-03 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>
<p>18.4-18.6 GHz FIXED FIXED-SATELLITE (SE) S5.484A Fixed-satellite service is subject to Res. 130 MOBILE</p>	<p>FIXED FIXED SATELLITE (SE) (ES)</p>	<p>Fixed links CEPT/ERC/REC 12-03 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>

<p>18.6-18.8 GHz</p> <p>FIXED</p> <p>FIXED-SATELLITE (SE) S5.523 Assignments to stations in fixed-satellite service shall limit pfd so that to reduce the risk of interference to passive sensors in the earth exploration-satellite and space research services</p> <p>MOBILE except aeronautical mobile Earth Exploration-Satellite (passive) Space Research (passive)</p> <p>S5.522 Assignments to stations in fixed-satellite service shall limit power delivered to antenna and e.i.r.p. so that to reduce the risk of interference to passive sensors to the minimum</p>	<p>FIXED</p> <p>FIXED SATELLITE (SE)</p> <p>Mobile satellite</p>	<p>Fixed links</p> <p>CEPT/ERC/REC 12-03 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>
<p>18.8-19.3 GHz</p> <p>FIXED</p> <p>FIXED-SATELLITE (SE)</p> <p>S5.523A Fixed-satellite service networks are subject to Res. 46, non-geostationary satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service</p> <p>MOBILE</p>	<p>FIXED</p> <p>FIXED SATELLITE (SE)</p> <p>Mobile satellite</p>	<p>Fixed links</p> <p>CEPT/ERC/REC 12-03 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>

<p>19.3-19.7 GHz FIXED FIXED-SATELLITE (SE)(ES) S5.523B Fixed-satellite service in band 19.3-19.6 GHz is limited to feeder links for non-geostationary satellite orbit systems in the mobile-satellite service S5.523C Coordination in band 19.3-19.6 GHz between feeder links of non-geostationary mobile-satellite and fixed-satellite services is subject to No. S22.2 S5.523D Geostationary fixed-satellite service systems and feeder links for non-geostationary-satellite service systems in mobile-satellite service is subject to Res. 46 S5.523E Coordination in band 19.6-19.7 GHz between feeder links of non-geostationary mobile-satellite and fixed-satellite services is subject to No. S22.2, if information was received before 21.11.1997 MOBILE</p>	<p>FIXED FIXED SATELLITE (SE)</p>	<p>Fixed links CEPT/ERC/REC 12-03 CEPT/ERC/DEC(99)12, (99)13-technical requirements</p>
<p>19.7-20.1 GHz FIXED-SATELLITE (SE) S5.484A Fixed-satellite service is subject to Res. 130 Mobile-Satellite (SE)</p>	<p>FIXED SATELLITE (SE) Mobile satellite</p>	

<p>20.1-20.2 GHz FIXED-SATELLITE (SE) S5.484A Fixed-satellite service is subject to Res. 130 MOBILE-SATELLITE (SE) S5.525 Carriers most susceptible to interference in the mobile-satellite service shall be located in the higher part of the band 19.7-20.2 GHz S5.526 Networks in fixed-satellite and mobile-satellite services may include links between earth stations S5.527 No S4.10 does not apply to the mobile-satellite service S5.528 Allocation to mobile-satellite service is intended for use by narrow spot-beam antennas and other advanced technology at the space stations</p>	<p>FIXED SATELLITE (SE) Mobile satellite</p>	
<p>20.2-21.2 GHz FIXED-SATELLITE (SE) MOBILE-SATELLITE (SE) Standard Frequency and Time Signal-Satellite (SF)</p>	<p>FIXED SATELLITE (SE) Mobile satellite</p>	<p>Governmental use type 2</p>
<p>21.2-21.4 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>FIXED MOBILE</p>	<p>Temporary point-to-multipoint fixed networks CEPT/ERC/DEC(98)09-technical requirements</p>
<p>21.4-22 GHz FIXED MOBILE BROADCASTING-SATELLITE S5.530 Broadcasting-Satellite shall come into effect on 01.04.2007, subject to Res. 525</p>	<p>FIXED BROADCASTING-SATELLITE</p>	<p>HDTV (planned) CEPT/ERC/DEC(98)09-technical requirements</p>

<p>22-22.21 GHz FIXED MOBILE except aeronautical mobile S5.149 Assignment in band 22.01-22.21 GHz to other services shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p>	<p>FIXED</p>	<p>22-22,21 GHz Fixed links CEPT/ERC T/R 13-02 (Annex A) and ITU-R F.637 (in future channel arrangements in accordance with CEPT/ERC T/R 13-02 (Annex A)) CEPT/ERC/DEC(98)09-technical requirements</p>
<p>22.21-22.5 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.532 Earth exploration-satellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services</p>	<p>FIXED</p>	<p>22,21-22,5 GHz Fixed links CEPT/ERC T/R 13-02 (Annex A) and ITU-R F.637 (in future channel arrangements in accordance with CEPT/ERC T/R 13-02 (Annex A)) CEPT/ERC/DEC(98)09-technical requirements</p>
<p>22.5-22.55 GHz FIXED MOBILE</p>	<p>FIXED</p>	<p>22,5-22,55 GHz Fixed links CEPT/ERC T/R 13-02 (Annex A) and ITU-R F.637 (in future channel arrangements in accordance with CEPT/ERC T/R 13-02 (Annex A)) CEPT/ERC/DEC(98)09-technical requirements</p>

<p>22.55-23 GHz FIXED INTER-SATELLITE MOBILE S5.149 Assignment to other services in band 22.81-22.86 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p>	<p>FIXED</p>	<p>22,55-22,6 GHz Fixed links CEPT/ERC T/R 13-02 (Annex A) and ITU-R F.637 (in future channel arrangements in accordance with CEPT/ERC T/R 13-02 (Annex A)) CEPT/ERC/DEC(98)09-technical requirements 22,6-23 GHz Fixed networks</p>
<p>23-23.55 GHz FIXED INTER-SATELLITE MOBILE S5.149 Assignment to other services in band 23.07-23.12 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p>	<p>FIXED</p>	<p>23-23,55 GHz Fixed links CEPT/ERC T/R 13-02 (Annex A) and ITU-R F.637 (in future channel arrangements in accordance with CEPT/ERC T/R 13-02 (Annex A)) CEPT/ERC/DEC(98)09-technical requirements</p>
<p>23.55-23.6 GHz FIXED MOBILE</p>	<p>FIXED</p>	<p>23,55-23,6 GHz Fixed links CEPT/ERC T/R 13-02 (Annex A) and ITU-R F.637 (in future channel arrangements in accordance with CEPT/ERC T/R 13-02 (Annex A)) CEPT/ERC/DEC(98)09-technical requirements</p>
<p>23.6-24 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited</p>	<p>ALL EMISSIONS PROHIBITED</p>	

<p>24-24.05 GHz AMATEUR AMATEUR-SATELLITE S5.150 24-24.25GHz (centre frequency 24.125 GHz) for ISM applications</p>	<p>AMATEUR AMATEUR-SATELLITE ISM applications</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 24,00-24,25 GHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(99)07-technical requirements</p>
<p>24.05-24.25 GHz RADIOLOCATION Amateur Earth Exploration-Satellite (active) S5.150 24-24.25GHz(centre frequency 24.125 GHz) for ISM applications</p>	<p>RADIOLOCATION Amateur ISM applications</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 24,00-24,25 GHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption CEPT/ERC/DEC(99)07-technical requirements</p>
<p>24.25-24.45 GHz FIXED</p>	<p>FIXED</p>	<p>Fixed networks</p>
<p>24.45-24.65 GHz FIXED INTER-SATELLITE</p>	<p>FIXED</p>	<p>CEPT/ERC T/R 13-02 (Annex B)-channel arrangements 24,5-25,5 GHz Fixed links CEPT/ERC/DEC(99)09-technical requirements 24,5-25,5 GHz FWA CEPT/ERC/REC 13-04 Du (+1008 MHz)</p>

<p>24.65-24.75 GHz FIXED INTER-SATELLITE</p>	<p>Spectrum sharing: FWA I – 112 MHz; FWA II – 112 MHz; FWA III – 112 MHz; FWA IV – 112 MHz after 1 January 2003; FWA V – 112 MHz after 1 January 2003; FWA VI – 112 MHz after 1 January 2003</p>
<p>24.75-25.25 GHz FIXED</p>	
<p>25.25-25.5 GHz FIXED MOBILE INTER-SATELLITE S5.536 Inter-satellite service is limited to space research and Earth exploration- satellite applications, transmissions of data originating from industrial and medical activities in space Standard Frequency and Time Signal Satellite (FS)</p>	

<p>25.5-27 GHz</p> <p>EARTH EXPLORATION-SATELLITE S5.536A Earth exploration-satellite earth-stations shall not claim protection from fixed and mobile stations operated by neighbouring administrations, taking into account Rec. ITU-R SA. 1278 S5.536B Earth stations in the earth-exploration service shall not claim protection from stations in fixed and mobile service</p> <p>FIXED MOBILE</p> <p>INTER-SATELLITE S5.536 Inter-satellite service is limited to space research and Earth exploration-satellite applications, transmissions of data originating from industrial and medical activities in space</p> <p>Standard Frequency and Time Signal-Satellite (ES)</p>	<p>FIXED MOBILE</p>	<p>CEPT/ERC T/R 13-02 (Annex B)-channel arrangements</p> <p>25,5-26,5 GHz Fixed links CEPT/ERC/DEC(99)09-technical requirements</p> <p>25,5-26,5 GHz FWA CEPT/ERC/REC 13-04 Du (-1008 MHz) Spectrum sharing: FWA I – 112 MHz; FWA II – 112 MHz; FWA III – 112 MHz; FWA IV – 112 MHz after 1 January 2003; FWA V – 112 MHz after 1 January 2003; FWA VI – 112 MHz after 1 January 2003</p>
<p>27-27.5 GHz</p> <p>FIXED MOBILE</p> <p>INTER-SATELLITE S5.536 Inter-satellite service is limited to space research and Earth exploration-satellite applications, transmissions of data originating from industrial and medical activities in space</p>	<p>FIXED</p>	<p>Fixed CEPT/ERC/DEC(99)09-technical requirements</p>

<p>27.5-28.5 GHz</p> <p>FIXED</p> <p>FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 S5.539 Fixed-satellite service (ES) may be used for feeder links of the broadcasting-satellite service</p> <p>MOBILE</p> <p>S5.538 Additional allocation: band 27.500-27.501 GHz also allocated to fixed-satellite service (SE) on a primary basis for beacon transmission intended for uplink power control</p> <p>S5.540 Additional allocation: band 27.501-29.999 GHz also allocated to the fixed-satellite service (SE) on a secondary basis for beacon stations intended for uplink power control</p>	<p>FIXED</p> <p>FIXED SATELLITE (ES) (SE)</p>	<p>HDTV (planned)</p> <p>27,5-28,5 MHz</p> <p>Fixed links</p> <p>CEPT/ERC T/R 13-02 (Annex C)</p> <p>CEPT/ERC/DEC(99)09-technical requirements</p> <p>27,5-28,5 GHz</p> <p>FWA</p> <p>CEPT/ERC/REC 13-04</p>
<p>28.5-29.1 GHz</p> <p>FIXED</p> <p>FIXED-SATELLITE (ES) S5.484A Fixed-satellite service in band 27.5-28.6 GHz is subject to Res. 130 S5.523A Fixed-satellite service networks in band 28.6-29.1 GHz are subject to Res. 46, non-geostationary satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service S5.539 Fixed-satellite service (ES) may be used for feeder links of the broadcasting-satellite service</p> <p>MOBILE</p> <p>Earth Exploration-Satellite (ES)</p> <p>S5.541 Earth exploration-satellite service is limited to the transfer of data between stations, not to collect of information</p> <p>S5.540 Additional allocation: also allocated to the fixed-satellite service (SE) on a secondary basis for beacon stations intended for uplink power control</p>	<p>FIXED</p> <p>FIXED SATELLITE (ES) (SE)</p>	<p>HDTV (planned)</p> <p>28,5-29,1 GHz</p> <p>Fixed links</p> <p>CEPT/ERC T/R 13-02 (Annex C)</p> <p>CEPT/ERC/DEC(99)09-technical requirements</p> <p>28,5-29,1 GHz</p> <p>FWA</p> <p>CEPT/ERC/REC 13-04</p>

<p>29.1-29.5 GHz</p> <p>FIXED</p> <p>FIXED-SATELLITE (ES) S5.523C Coordination in band 29.1-29.4 GHz between feeder links of non-geostationary mobile-satellite and fixed-satellite services is subject to No. S22.2</p> <p>S5.523E Coordination in band 29.4-29.5 GHz between feeder links of non-geostationary mobile-satellite and fixed-satellite services is subject to No. S22.2, if information was received before 21.11.1997</p> <p>S5.535A Fixed-satellite service is limited to geostationary satellite systems and feeder links to non-geostationary satellite systems in mobile-satellite service, subject to Res. 46</p> <p>S5.539 Fixed-satellite service (ES) may be used for feeder links of the broadcasting-satellite service</p> <p>MOBILE</p> <p>Earth Exploration-Satellite (ES)</p> <p>S5.541 Earth exploration-satellite service is limited to the transfer of data between stations, not to collect of information</p> <p>S5.540 Additional allocation: also allocated to the fixed-satellite service (SE) on a secondary basis for beacon stations intended for uplink power control</p>	<p>FIXED</p> <p>FIXED SATELLITE (ES) (SE)</p>	<p>HDTV (planned)</p> <p>29,1-29,5 GHz Fixed links CEPT/ERC T/R 13-02 (Annex C) CEPT/ERC/DEC(99)09- technical requirements</p> <p>29,1-29,5 GHz FWA CEPT/ERC/REC 13-04</p>
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<p>29.5-29.9 GHz</p> <p>FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 S5.539 Fixed-satellite service (ES) may be used for feeder links of the broadcasting-satellite service</p> <p>Earth Exploration-Satellite (ES) S5.541 Earth exploration-satellite service is limited to the transfer of data between stations, not to collect of information</p> <p>Mobile-Satellite (ES) S5.540 Additional allocation: also allocated to the fixed-satellite service (SE) on a secondary basis for beacon stations intended for uplink power control</p>	<p>FIXED SATELLITE (ES) (SE)</p>	<p>HDTV (planned)</p>
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<p>29.9-30 GHz</p> <p>FIXED-SATELLITE (ES) S5.484A Fixed-satellite service is subject to Res. 130 S5.539 Fixed-satellite service (ES) may be used for feeder links of the broadcasting-satellite service</p> <p>MOBILE-SATELLITE (ES)</p> <p>Earth Exploration-Satellite (ES) S5.541 Earth exploration-satellite service is limited to the transfer of data between stations, not to collect of information</p> <p>S5.525 Carriers most susceptible to interference in the mobile-satellite service shall be located in the higher part of the band 29.5-30 GHz</p> <p>S5.526 Networks in fixed-satellite and mobile-satellite services may include links between earth stations</p> <p>S5.527 No S4.10 does not apply to the mobile-satellite service</p> <p>S5.538 Additional allocation: band 29.999-30.000 GHz also allocated to fixed-satellite service (SE) on a primary basis for beacon transmission intended for uplink power control</p> <p>S5.540 Additional allocation: band 27.501-29.999 GHz also allocated to the fixed-satellite service (SE) on a secondary basis for beacon stations intended for uplink power control</p> <p>S5.543 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</p>	<p>FIXED SATELLITE (ES) (SE)</p> <p>MOBILE SATELLITE</p>	<p>HDTV (planned)</p>
<p>30-31 GHz</p> <p>FIXED-SATELLITE (ES)</p> <p>MOBILE-SATELLITE (ES)</p> <p>Standard Frequency and Time Signal-Satellite (SE)</p>	<p>FIXED SATELLITE (ES)</p> <p>MOBILE SATELLITE</p>	

<p>31-31.3 GHz FIXED MOBILE Standard Frequency and Time Signal-Satellite (SE) Space Research S5.544 Space research service pfd limits are in Art. S21, Table S21-4 S5.149 Assignment to other services in frequency band 31.2-31.3 MHz shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.545 Different category of service: in Russia allocated to space research service is on a primary basis</p>	<p>FIXED MOBILE</p>	<p>Point-to-multipoint fixed networks</p>
<p>31.3-31.5 GHz EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>31.5-31.8 GHz EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.546 Different category of service: in Latvia and Russia allocated to fixed and mobile, except aeronautical mobile, services on a primary basis</p>	<p>FIXED</p>	<p>Point-to-multipoint fixed networks</p>

<p>31.8-32 GHz</p> <p>FIXED S5.547A Use by fixed service shall be in accordance with Res. 126</p> <p>RADIONAVIGATION</p> <p>SPACE RESEARCH (deep space) (SE)</p> <p>S5.547 High-density applications in the fixed service</p> <p>S5.548 In designing systems for the space research service(deep space) prevent harmful interference bearing in mind safety aspects of radionavigation service</p>	RADIONAVIGATION	HDFS (planned)
<p>32-32.3 GHz</p> <p>FIXED S5.547A Use by fixed service shall be in accordance with Res. 126</p> <p>INTER-SATELLITE</p> <p>RADIONAVIGATION</p> <p>SPACE RESEARCH (deep space) (SE)</p> <p>S5.547 High-density applications in the fixed service</p> <p>S5.548 In designing systems for the inter-satellite and radionavigation services, and space research service (deep space) prevent harmful interference bearing in mind safety aspects of radionavigation service</p>	RADIONAVIGATION	HDFS (planned)
<p>32.3-33 GHz</p> <p>FIXED S5.547A Use by fixed service shall be in accordance with Res. 126</p> <p>INTER-SATELLITE</p> <p>RADIONAVIGATION</p> <p>S5.547 High-density applications in the fixed service</p> <p>S5.548 In designing systems for the inter-satellite and radionavigation services, prevent harmful interference bearing in mind safety aspects of radionavigation service</p>	RADIONAVIGATION	HDFS (planned)

<p>33-33.4 GHz FIXED S5.547A Use by fixed service shall be in accordance with Res. 126 RADIONAVIGATION S5.547 High-density applications in the fixed service</p>	<p>RADIONAVIGATION</p>	<p>HDFS (planned)</p>
<p>33.4-34.2 GHz RADIOLOCATION</p>	<p>RADIOLOCATION</p>	<p>Governmental use type 2</p>
<p>34.2-34.7 GHz RADIOLOCATION SPACE RESEARCH (deep space) (ES)</p>	<p>RADIOLOCATION</p>	<p>Governmental use type 2</p>
<p>34.7-35.2 GHz RADIOLOCATION Space Research S5.550 Different category of service: in Russia allocated to space research service on a primary basis</p>	<p>RADIOLOCATION</p>	<p>Governmental use type 2</p>
<p>35.2-35.5 GHz METEOROLOGICAL AIDS RADIOLOCATION</p>	<p>RADIOLOCATION METEOROLOGICAL AIDS</p>	
<p>35.5-36 GHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) S5.551A Active spaceborne sensors in earth exploration-satellite and space research service shall not cause harmful interference to other services allocated on a primary basis</p>	<p>RADIOLOCATION METEOROLOGICAL AIDS</p>	

<p>36-37 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.149 Assignment to other services in band 36.43-36.5 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p>	<p>FIXED MOBILE</p>	<p>Governmental use type 1</p>
<p>37-37.5 GHz FIXED MOBILE SPACE RESEARCH (SE)</p>	<p>FIXED</p>	<p>37,0-37,5 GHz Fixed links CEPT/ERC T/R 12-01 CEPT/ERC/DEC(98)08-technical requirements</p>
<p>37.5-38 GHz FIXED FIXED-SATELLITE (SE) MOBILE SPACE RESEARCH (SE) Earth Exploration-Satellite (SE)</p>	<p>FIXED FIXED SATELLITE (SE)</p>	<p>37,5-38 GHz Fixed links CEPT/ERC T/R 12-01 CEPT/ERC/DEC(98)08-technical requirements</p>
<p>38-39.5 GHz FIXED FIXED-SATELLITE (SE) MOBILE Earth Exploration-Satellite (SE)</p>	<p>FIXED</p>	<p>38-39,5 GHz Fixed links CEPT/ERC T/R 12-01 CEPT/ERC/DEC(98)08-technical requirements</p>
<p>39.5-40 GHz FIXED FIXED-SATELLITE (SE) MOBILE MOBILE-SATELLITE (SE) Earth Exploration-Satellite (SE)</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE MOBILE SATELLITE (SE)</p>	

<p>40-40.5 GHz FIXED FIXED-SATELLITE (SE) MOBILE MOBILE-SATELLITE (SE) EARTH EXPLORATION-SATELLITE (ES) SPACE RESEARCH (ES) Earth Exploration Satellite (SE)</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE MOBILE SATELLITE (SE)</p>	
<p>40.5-42.5 GHz FIXED BROADCASTING BROADCASTING-SATELLITE Mobile S5.551B Use of band 41.5-42.5 GHz by fixed-satellite(SE) service is subject to Res. 128</p>	<p>BROADCASTING-SATELLITE BROADCASTING FIXED</p>	<p>MWS CEPT/ERC/DEC(99)15</p>
<p>42.5-43.5 GHz FIXED FIXED-SATELLITE (ES) MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>MWS CEPT/ERC/DEC(99)15</p>
<p>43.5-47 GHz MOBILE S5.553 Stations in land mobile service shall not cause harmful interference to the space radiocommunication services MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554 Satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with mobile-satellite or radionavigation-satellite service</p>	<p>RADIONAVIGATION MOBILE</p>	<p>43,5-45,5 GHz Governmental use type 2</p>

<p>47-47.2 GHz AMATEUR AMATEUR-SATELLITE</p>	<p>AMATEUR AMATEUR-SATELLITE</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>
<p>47.2-50.2 GHz FIXED FIXED-SATELLITE (ES) S5.552 To take all practicable steps to reserve band 47.2-49.2 GHz for feeder links for broadcasting-satellite service operating in band 40.5-42.5 GHz MOBILE S5.149 Assignment to other services shall be made bearing in mind protection of the radio astronomy service from harmful interference S5.340 In band 48.94-49.04 GHz all emissions from airborne stations are prohibited S5.552A Fixed service in band 47.2-47.5 GHz and 47.9-48.2 GHz is designated for use by high altitude platform stations, subject to Res. 122 S5.555 Additional allocation: band 48.94-49.04 GHz also allocated to radio astronomy service on a primary basis</p>	<p>FIXED FIXED SATELLITE (ES) RADIO ASTRONOMY /S5.555/</p>	<p>47,2-48,5 GHz Undirectional, temporary fixed links</p>
<p>50.2-50.4 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 All emissions prohibited (shall not impose undue constraints on the use of adjacent bands by the primary allocated services in those bands) S5.555A Also allocated to fixed service on a primary basis until 01.06.2000</p>	<p>FIXED until 1 June 2000</p>	

<p>50.4-51.4 GHz FIXED FIXED-SATELLITE (ES) MOBILE Mobile-Satellite (ES)</p>	<p>FIXED FIXED SATELLITE (ES)</p>	<p>Governmental use type 2</p>
<p>51.4-52.6 GHz FIXED MOBILE S5.547 For use by high-density applications in fixed service S5.556 Radio astronomy observations may be carried out under national arrangements</p>	<p>FIXED</p>	<p>HDFS (planned)</p>
<p>52.6-54.25 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 All emissions prohibited S5.556 Radio astronomy observations may be carried out under national arrangements</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>54.25-55.78 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE S5.556A Inter-satellite service is limited to geostationary-satellite orbits SPACE RESEARCH (passive)</p>	<p>EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)</p>	

<p>55.78-56.9 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A Inter-satellite service is limited to geostationary-satellite orbits MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) S5.547 For use by high-density applications in fixed service</p>	<p>FIXED</p>	<p>HDFS (planned)</p>
<p>56.9-57 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.558A Inter-satellite service is limited to links between satellites in geostationary-satellite orbit and to transmission from non-geostationary satellites in high-Earth orbit to those in low-Earth orbit MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) S5.547 For use by high-density applications in fixed service</p>	<p>FIXED MOBILE</p>	<p>HDFS (planned)</p>

<p>57-58.2 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A Inter-satellite service is limited to geostationary-satellite orbits MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) S5.547 For use by high-density applications in fixed service</p>	FIXED	HDFS (planned)
<p>58.2-59 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.547 For use by high-density applications in fixed service S5.556 Radio astronomy observations may be carried out under national arrangements</p>	FIXED	HDFS (planned)

<p>59-59.3 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A Inter-satellite service is limited to geostationary-satellite orbits MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service RADIOLOCATION S5.559 Airborne radars in radiolocation service may be operated to not causing harmful interference to inter-satellite service SPACE RESEARCH (passive)</p>	<p>FIXED MOBILE RADIOLOCATION</p>	<p>59,0-59,3 GHz Governmental use type 2</p>
<p>59.3-64 GHz FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service RADIOLOCATION S5.559 Airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the inter-satellite service S5.138 61-61.5 GHz (centre frequency 61.25 GHz) for ISM applications</p>	<p>FIXED RADIOLOCATION ISM applications</p>	<p>59,3-61 GHz Governmental use type 2 61,0-61,5 GHz Telemetry, Telecommand, Alarms, Data CEPT/ERC/REC 70-03 (Annex 1)-licence exemption 63-64 GHz RTTT CEPT/ERC/DEC(92)02 CEPT/ERC/REC 70-03 (Annex 5)-licence exemption</p>
<p>64-65 GHz FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.547 For use by high-density applications in fixed service S5.556 Radio astronomy observations may be carried out under national arrangements</p>	<p>FIXED</p>	<p>HDFS (planned)</p>

<p>65-66 GHz EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH S5.547 For use by high-density applications in fixed service</p>	<p>FIXED</p>	<p>HDFS (planned)</p>
<p>66-71 GHz INTER-SATELLITE MOBILE S5.553 Stations in land mobile service shall not cause harmful interference to the space radiocommunication services S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554 Satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with mobile-satellite or radionavigation-satellite service</p>	<p>RADIONAVIGATION MOBILE</p>	
<p>71-74 GHz FIXED FIXED-SATELLITE (ES) MOBILE MOBILE-SATELLITE (ES) S5.149 Assignment to other services in band 72.77-72.91 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.556 Radio astronomy observations in band 72.77-72.91 GHz may be carried out under national arrangements</p>	<p>FIXED FIXED SATELLITE (ES)</p>	

<p>74-75.5 GHz FIXED FIXED-SATELLITE (ES) MOBILE Space Research (SE)</p>	<p>FIXED FIXED SATELLITE (ES)</p>	
<p>75.5-76 GHz AMATEUR AMATEUR-SATELLITE Space Research (SE)</p>	<p>AMATEUR AMATEUR-SATELLITE</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>
<p>76-81 GHz RADIOLOCATION Amateur Amateur-Satellite Space Research (SE) S5.560 In band 78-79 GHz radars located on space stations may be operated on a primary basis in the earth exploration-satellite and in the space research services</p>	<p>RADIOLOCATION Amateur Amateur-satellite</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan 76-77 GHz RTTT CEPT/ERC/DEC(92)02 CEPT/ERC/REC 70-03 (Annex 5)-licence exemption</p>
<p>81-84 GHz FIXED FIXED-SATELLITE (SE) MOBILE MOBILE-SATELLITE (SE) Space Research (SE)</p>	<p>FIXED FIXED SATELLITE (SE)</p>	
<p>84-86 GHz FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561 Stations in the fixed, mobile and broadcasting services shall not cause harmful interference to broadcasting-satellite stations</p>	<p>FIXED BROADCASTING-SATELLITE</p>	

<p>86-92 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>92-94 GHz FIXED FIXED-SATELLITE (ES) MOBILE RADIOLOCATION S5.149 Assignment to other services in band 93.07-93.27 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.556 Radio astronomy observations in band 93.07-93.27 GHz may be carried out under national arrangements</p>	<p>FIXED FIXED SATELLITE (ES) RADIOLOCATION</p>	
<p>94-94.1 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) S5.562 Earth exploration-satellite (active) and space research (active) services are limited to spaceborne cloud radars</p>	<p>RADIOLOCATION</p>	
<p>94.1-95 GHz FIXED FIXED-SATELLITE (ES) MOBILE RADIOLOCATION S5.556 Radio astronomy observations may be carried out under national arrangements</p>	<p>FIXED FIXED SATELLITE (ES) RADIOLOCATION</p>	

<p>95-100 GHz MOBILE S5.553 Stations in land mobile service shall not cause harmful interference to the space radiocommunication services MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation S5.149 Assignment to other services in band 97.88-98.08 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.554 Satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with mobile-satellite or radionavigation-satellite service S5.555 Additional allocation: band 97.88-98.08 GHz also allocated to radio astronomy service on a primary basis</p>	<p>RADIONAVIGATION MOBILE SATELLITE MOBILE RADIO ASTRONOMY /S5.555/</p>	
<p>100-102 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341 By some countries band 101-120 GHz used for search of extraterrestrial emissions</p>	<p>FIXED MOBILE</p>	
<p>102-105 GHz FIXED FIXED-SATELLITE (SE) MOBILE S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE</p>	

<p>105-116 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>116-119.98 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) S5.138 122-123 GHz (centre frequency 122.5 GHz) for ISM applications S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED MOBILE ISM applications</p>	
<p>119.98-120.02 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) Amateur S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>Amateur ISM applications</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>

<p>120.02-126 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) S5.138 122-123 GHz (centre frequency 122.5 GHz) for ISM applications S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED MOBILE ISM applications</p>	
<p>126-134 GHz FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service RADIOLOCATION S5.559 Airborne radars in radiolocation service may be operated to not causing harmful interference to inter-satellite service</p>	<p>FIXED MOBILE RADIOLOCATION</p>	

<p>134-142 GHz</p> <p>MOBILE S5.553 Stations in land mobile service shall not cause harmful interference to the space radiocommunication services</p> <p>MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation</p> <p>S5.149 Assignment to other services in band 140.69-140.98 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p> <p>S5.340 All emissions from airborne stations and from space stations in the SE direction are prohibited</p> <p>S5.554 Satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with mobile-satellite or radionavigation-satellite service</p> <p>S5.555 Additional allocation: band 140.69-140.98 GHz also allocated to radio astronomy service on a primary basis</p>	<p>MOBILE MOBILE-SATELLITE RADIONAVIGATION RADIO ASTRONOMY /S5.555/</p>	
<p>142-144 GHz</p> <p>AMATEUR AMATEUR-SATELLITE</p>	<p>AMATEUR AMATEUR-SATELLITE</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>

<p>144-149 GHz RADIOLOCATION Amateur Amateur-Satellite S5.149 Assignment to other services in bands 144.68-144.98, 145.45-145.75, 146.82-147.75 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.555 Additional allocation: bands 144.68-144.98,145.45-145.75, 146.82-147.75 GHz also allocated to radio astronomy service on a primary basis</p>	<p>RADIOLOCATION Amateur Amateur-satellite RADIO ASTRONOMY /S5.555/</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>
<p>149-150 GHz FIXED FIXED-SATELLITE (SE) MOBILE</p>	<p>MOBILE FIXED FIXED SATELLITE (SE)</p>	
<p>150-151 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (SE) MOBILE SPACE RESEARCH (passive) S5.149 Assignment to other services in band 150-151 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.385 Additional allocation: the band also allocated to the radio astronomy (line spectral observation) service on a secondary basis</p>	<p>MOBILE FIXED FIXED SATELLITE (SE)</p>	
<p>151-156 GHz FIXED FIXED-SATELLITE (SE) MOBILE</p>	<p>MOBILE FIXED FIXED SATELLITE (SE)</p>	

156-158 GHz FIXED FIXED-SATELLITE (SE) MOBILE EARTH EXPLORATION-SATELLITE (passive)	MOBILE FIXED FIXED SATELLITE (SE)	
158-164 GHz FIXED FIXED-SATELLITE (SE) MOBILE	MOBILE FIXED FIXED SATELLITE (SE)	
164-168 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	RADIO ASTRONOMY	
168-170 GHz FIXED MOBILE	FIXED MOBILE	
170-174.5 GHz FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service S5.149 Assignment to other services in band 174.42-175.02 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.385 Additional allocation: the band 174.42-175.02 GHz also allocated to the radio astronomy (line spectral observation) service on a secondary basis	FIXED MOBILE	

<p>174.5-176.5 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service SPACE RESEARCH (passive) S5.149 Assignment to other services in band 174.42-175.02 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.385 Additional allocation: the band 174.42-175.02 GHz also allocated to the radio astronomy (line spectral observation) service on a secondary basis</p>	<p>FIXED MOBILE</p>	
<p>176.5-182 GHz FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service S5.149 Assignment to other services in bands 177-177.4, 178.2-178.6, 181-181.46 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.385 Additional allocation: bands 177-177.4, 178.2-178.6, 181-181.46 GHz also allocated to the radio astronomy (line spectral observation) service on a secondary basis</p>	<p>FIXED MOBILE</p>	

<p>182-185 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>185-190 GHz FIXED INTER-SATELLITE MOBILE S5.558 Stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service S5.149 Assignment to other services in band 186.2-186.6 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.385 Additional allocation: band 186.2-186.6 GHz also allocated to the radio astronomy (line spectral observation) service on a secondary basis</p>	<p>FIXED MOBILE</p>	
<p>190-200 GHz MOBILE S5.553 Stations in land mobile service shall not cause harmful interference to the space radiocommunication services MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.341 By some countries band 197-220 GHz used for search of extraterrestrial emissions S5.554 Satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with mobile-satellite or radionavigation-satellite service</p>	<p>MOBILE MOBILE SATELLITE RADIONAVIGATION</p>	

<p>200-202 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>MOBILE FIXED</p>	
<p>202-217 GHz FIXED FIXED-SATELLITE (ES) MOBILE S5.341 By some countries used for search of extraterrestrial emissions</p>	<p>FIXED FIXED SATELLITE (ES) MOBILE</p>	
<p>217-231 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 All emissions prohibited S5.341 By some countries band 197-220 GHz used for search of extraterrestrial emissions</p>	<p>ALL EMISSIONS PROHIBITED</p>	
<p>231-235 GHz FIXED FIXED-SATELLITE (SE) MOBILE Radiolocation</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE</p>	
<p>235-238 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (SE) MOBILE SPACE RESEARCH (passive)</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE</p>	

<p>238-241 GHz FIXED FIXED-SATELLITE (SE) MOBILE Radiolocation</p>	<p>FIXED FIXED SATELLITE (SE) MOBILE</p>	
<p>241-248 GHz RADIOLOCATION Amateur Amateur-Satellite S5.138 244-246 GHz (centre frequency 245GHz) for ISM applications</p>	<p>RADIOLOCATION Amateur Amateur-satellite ISM applications</p>	<p>Amateur, types of emissions in accordance with IARU1 Frequency Plan</p>
<p>248-250 GHz AMATEUR AMATEUR-SATELLITE</p>	<p>AMATEUR AMATEUR-SATELLITE</p>	<p>Types of emissions in accordance with IARU1 Frequency Plan</p>
<p>250-252 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.149 Assignment to other services in band 250-251 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference S5.555 Additional allocation: band 250-251 GHz also allocated to radio astronomy service on a primary basis</p>	<p>RADIO ASTRONOMY /S5.555/</p>	

<p>252-265 GHz</p> <p>MOBILE S5.553 Stations in land mobile service shall not cause harmful interference to the space radiocommunication services</p> <p>MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>S5.149 Assignment to other services in bands 257.5-258, 261-265 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p> <p>S5.385 Additional allocation: the band 257.5-258 GHz also allocated to the radio astronomy (line spectral observation) service on a secondary basis</p> <p>S5.554 Satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with mobile-satellite or radionavigation-satellite service</p> <p>S5.555 Additional allocation: band 262.24-262.76 GHz also allocated to radio astronomy service on a primary basis</p> <p>S5.564 Additional allocation: in Finland 261-265 GHz is also allocated to the radio astronomy service on a primary basis</p>	<p>MOBILE MOBILE SATELLITE RADIONAVIGATION RADIO ASTRONOMY /S5.555/</p>	
<p>265-275 GHz</p> <p>FIXED FIXED-SATELLITE (ES) MOBILE RADIO ASTRONOMY</p> <p>S5.149 Assignment to other services in bands 265.64-266.16, 267.34-267.86, 271.74-272.26 GHz shall be made bearing in mind protection of the radio astronomy service (spectral line observation) from harmful interference</p>	<p>FIXED FIXED SATELLITE (ES) MOBILE RADIO ASTRONOMY</p>	