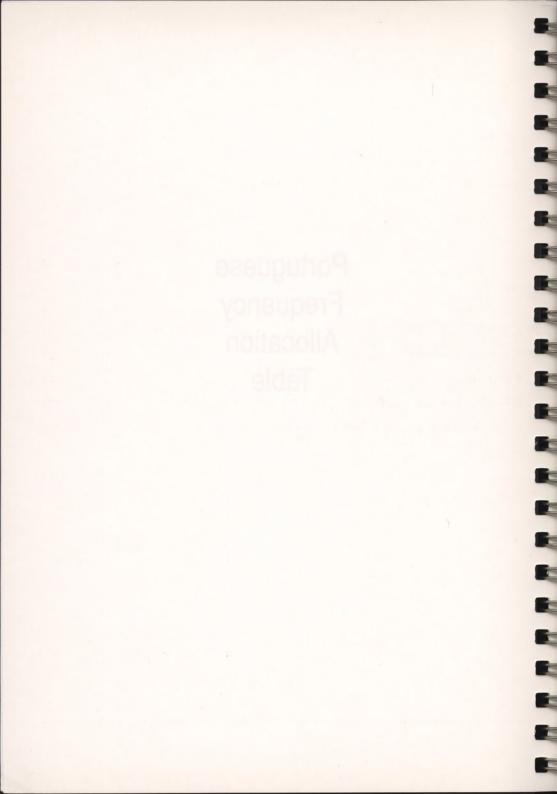


Portuguese Frequency Allocation Table

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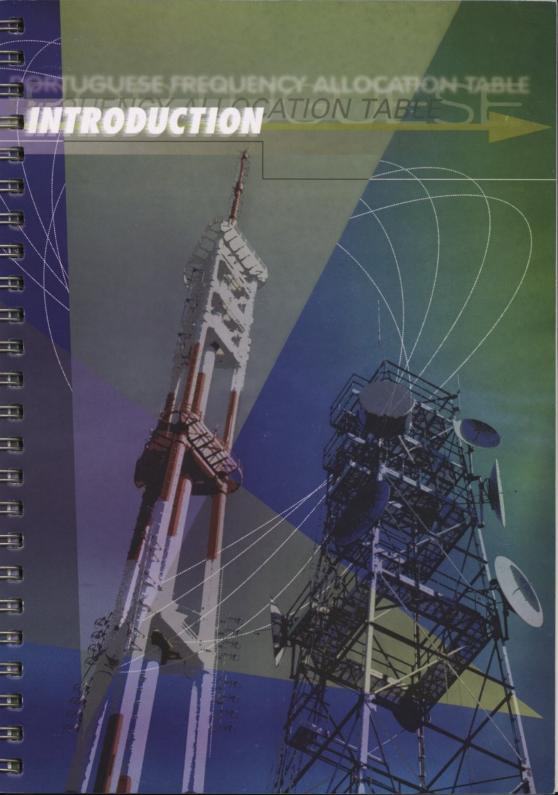


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### 1. INTRODUCTION

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## INSTITUTO DAS COMUNICAÇÕES DE PORTUGAL

In Portugal, responsibility for the management of the spectrum is entrusted by law to Instituto das Comunicações de Portugal, the authority that controls Portuguese communications, under the auspices of the Ministry of Equipment, Planning and Territory Administration. Within this context, the ICP is responsible, for the allocation of frequency bands to services and the assignment of frequencies to radio stations and for the supervision of the use thereof. This function covers all public and private bodies, whether they are telecommunications operators, broadcasters or private users of radio networks.

In the special case of use for military and associated purposes the management of parts of the spectrum has been delegated to the Estado Maior General das Forças Armadas (EMGFA). Licensing and supervision of ship stations is the responsibility of the Office of the Director General of Shipping and Maritime Transport.

## FREQUENCY MANAGEMENT

Frequency management can be defined as a series of technical and administrative procedures, the purpose of which is to ensure that the operation of radio stations by the various radiocommunications services does not cause *interference problems*.

Given the growth of services that use the radio spectrum, it is currently almost impossible to grant exclusive frequency bands to a single radiocommunications service. The various allocations are therefore made on a shared basis, in terms of time or frequency.

The regulatory procedures adopted by a country for application within its borders are determined by the country itself; nevertheless the provisions of international conventions, in this case emanating from the International Telecommunications Union (ITU), must be taken into consideration.

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## THE INTERNATIONAL TELECOMMUNICATIONS UNION

The International Telecommunications Union has, since 1947, acted as a specialised United Nations agency in the telecommunications field, and is the highest level body able to make Agreements between States.

The Agreements made in the area of radiocommunications are contained in a document entitled Radio Regulations (RR). Portugal, as a Member of the ITU, has, in a spirit of international cooperation, undertaken to apply the provisions thereof within its territory as well as in its dealings with other Member countries.

#### THE RADIO REGULATIONS

The Radio Regulations establish the rules to be observed when the spectrum or the geostationary orbit of satellites are used, and establish the rights and duties arising from each use thereof. The contents of the RR are a result of decisions taken by the WORLD RADIOCOMMUNICATIONS CONFERENCES, which are open to the Governments of all countries that belong to the ITU.

The "FREQUENCY ALLOCATION TABLE" is to be found in Article S5 of the Simplified RR and describes the services that can be used in each one of the three Regions of the world by frequency band. The Portuguese Table described herein is the result of the application of Article S5 to the specific Portuguese case.

The definitions are to be found in Article S1\* of the Simplified RR.

<sup>\*</sup> Come into force on 1 June 1998.

## THE PORTUGUESE FREQUENCY ALLOCATION TABLE

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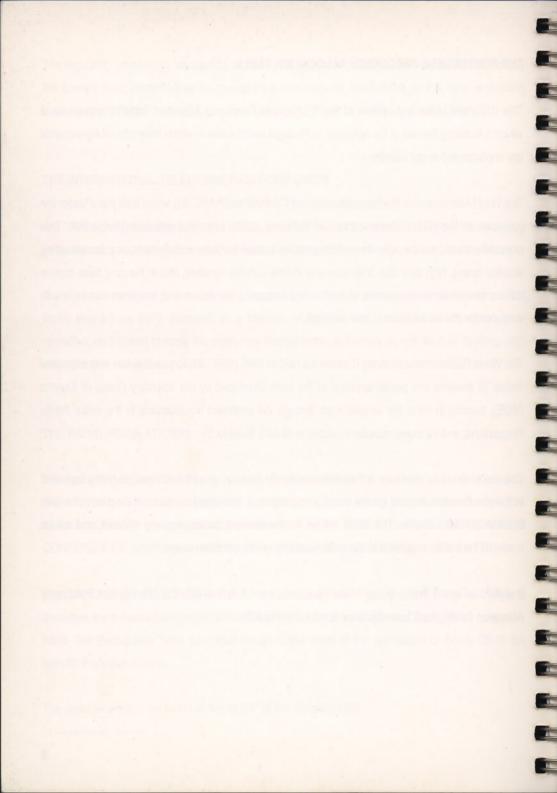
This document is the first version of the "Portuguese Frequency Allocation Table", the purpose of which is to clarify the use of the spectrum in Portugal and the way in which International Agreements are implemented in our country.

The World Administrative Radiocommunications Conference (WARC-92) which took place under the auspices of the ITU in Torremolinos, in February 1992, amended Article 8 of the RR. This amendment includes the allocation of frequencies to new services and systems, e.g. broadcasting satellite sound, high definition television and mobile satellite services, and in the long term implies the transfer of services in some of the current frequency bands, so that spectrum can be made available for the introduction of new services.

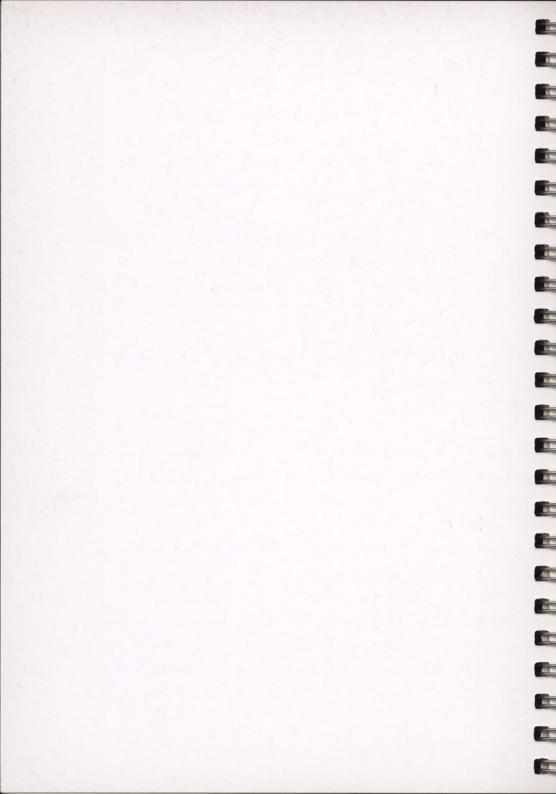
The World Radiocommunications Conference held in 1995 (WRC-95) focused on two very important topics: (i) analysis and partial approval of the work developed by the *Voluntary Group of Experts* (VGE), bearing in mind the simplification through the proposed modifications to the entire Radio Regulations, and (ii) many questions related to Mobile Satellite Services.

The use of the radio spectrum is therefore constantly developing, with modifications being expected in the short/medium term to enable the implementation of new systems and technologies in line with commercial requirements. This Table will be, for the reasons stated, regularly updated, and will be useful to the public in general in the understanding of the spectrum usage.

It should be noted that any use of the spectrum, even if in line with this "Portuguese Frequency Allocation Table", must have the prior approval of the ICP.



# DEFINITIONS OCATION TABLE T) 41 13 13 13 Į, 1 -• 1 <u>...</u>



#### 2. DEFINITIONS

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- -Allocation (of a frequency band): Entry in the Table of Frequency Allocations of a given frequency band for the purpose of its use by one or more terrestrial or space radiocommunication services or the radio astronomy service under specified conditions. This term shall also be applied to the frequency band concerned.
- Allotment (of a radio frequency or radio frequency channel): Entry of a designated frequency channel in an agreed plan, adopted by a competent conference, for use by one or more administrations for a terrestrial or space radiocommunication service in one or more identified countries or geographical areas and under specified conditions.
- Assignment (of a radio frequency or radio frequency channel): Authorization given by an administration for a radio station to use a radio frequency or radio frequency channel under specified conditions.
- Radiocommunication Service: A service involving the transmission, emission and/or reception of radio waves for specific telecommunication purposes.
- Unless otherwise stated, any radiocommunication service relates to terrestrial radiocommunication.
- Fixed Service (FIX): A radiocommunication service between specified fixed points.
- Fixed-Satellite Service (FIX-S): A radiocommunication service between earth stations at given positions, when one or more satellites are used; the given position may be a specified fixed point or any fixed point within specified areas; in some cases this service includes satellite-to-satellite links, which may also be operated in the inter-satellite service; the fixed-satellite service may also include feeder links for other space radiocommunication services.

- Aeronautical Fixed Service (FIXAR): A radiocommunication service between specified fixed
  points provided primarily for the safety of air navigation and for the regular, efficient and economical
  operation of air transport.
- Inter-Satellite Service (INT-S): A radiocommunication service providing links between artificial satellites.
- Space Operation Service (OE): A radiocommunication service concerned exclusively with the
  operation of spacecraft, in particular space tracking, space telemetry and space telecommand.
   These functions will normally be provided within the service in which the space station is operating.
- Mobile Service (MOV): A radiocommunication service between mobile and land stations, or between mobile stations (CV).
- Mobile-Satellite Service (MV-S): A radiocommunication service between mobile earth stations and one or more space stations, or between space stations used by this service, or between mobile earth stations by means of one or more space stations.

This service may also include feeder links necessary for its operation.

- Land Mobile Service (MT): A mobile service between base stations and land mobile stations, or between land mobile stations.
- Land Mobile-Satellite Service (MT-S): A mobile-satellite service in which mobile earth stations are located on land.
- Maritime Mobile Service (MM): A mobile service between coast stations and ship stations, or between ship stations, or between associated on-board communication stations; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.

- Maritime Mobile-Satellite Service (MM-S): A mobile-satellite service in which mobile earth stations are located on board ships; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.
- Port Operations Service (OP): A maritime mobile service in or near a port, between coast stations
  and ship stations, or between ship stations, in which messages are restricted to those relating to the
  operational handling, the movement and the safety of ships and, in emergency, to the safety of persons.
   Messages which are of a public correspondence nature shall be excluded from this service.
- Ship Movement Service (ONS): A safety service in the maritime mobile service other than a port operations service, between coast stations and ship stations, or between ship stations, in which messages are restricted to those relating to the movement of ships.
- Messages which are of a public correspondence nature shall be excluded from this service.
- Aeronautical Mobile Service (MA): A mobile service between aeronautical stations and aircraft stations, or between aircraft stations, in which survival craft stations may participate; emergency position-indicating radiobeacon stations may also participate in this service on designated distress and emergency frequencies.
- Aeronautical Mobile (R)\* Service (MAR): An aeronautical mobile service reserved for communications relating to safety and regularity of flight, primarily along national or international civil air routes.
- Aeronautical Mobile (OR)\*\* Service (MAOR): An aeronautical mobile service intended for communications, including those relating to flight coordination, primarily outside national or international civil air routes.

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<sup>\* (</sup>R): route.
\*\* (OR): off-route.

- Aeronautical Mobile-Satellite Service (MA-S): A mobile-satellite service in which mobile earth stations are located on board aircraft; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.
- Aeronautical Mobile-Satellite (R)\* Service (MAR-S): An aeronautical mobile-satellite service reserved for communications relating to safety and regularity of flights, primarily along national or international civil air routes.

- Aeronautical Mobile-Satellite (OR)\*\* Service (MAO-S): An aeronautical mobile-satellite service intended for communications, including those relating to flight coordination, primarily outside national and international civil air routes.
- Broadcasting Service (RAD): A radiocommunication service in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, television transmissions or other types of transmission (CS).
- Broadcasting-Satellite Service (RAD-S): A radiocommunication service in which signals transmitted or retransmitted by space stations are intended for direct reception by the general public. In the broadcasting-satellite service, the term "direct reception" shall encompass both individual reception and community reception.
- Radiodetermination Service (RDT): A radiocommunication service for the purpose of radiodetermination.
- Radiodetermination-Satellite Service (RDT-S): A radiocommunication service for the purpose of radiodetermination involving the use of one or more space stations.

This service may also include feeder links necessary for its own operation.

<sup>\* (</sup>R): route.

<sup>\*\* (</sup>OR): off-route.

- Radionavigation Service (RV): A radiodetermination service for the purpose of radionavigation.
- Radionavigation-Satellite Service (RV-S): A radiodetermination-satellite service used for the purpose of radionavigation.

This service may also include feeder links necessary for its operation.

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- Maritime Radionavigation Service (RVM): A radionavigation service intended for the benefit and for the safe operation of ships.
- Maritime Radionavigation-Satellite Service (RVM-S): A radionavigation-satellite service in which earth stations are located on board ships.
- Aeronautical Radionavigation Service (RVA): A radionavigation service intended for the benefit
  and for the safe operation of aircraft.
- Aeronautical Radionavigation-Satellite Service (RVA-S): A radionavigation-satellite service in which earth stations are located on board aircraft.
- Radiolocation Service (RLC): A radiodetermination service for the purpose of radiolocation.
- Radiolocation-Satellite Service (RLC-S): A radiodetermination-satellite service used for the purpose of radiolocation.
- This service may also include the feeder links necessary for its operation.
- Meteorological Aids Service (METAX): A radiocommunication service used for meteorological, including hydrological, observations and exploration.

- Earth Exploration-Satellite Service (EXP-S): A radiocommunication service between earth stations and one or more space stations, which may include links between space stations, in which:

- information relating to the characteristics of the Earth and its natural phenomena, including data relating to the state of the environment, is obtained from active sensors or passive sensors on Earth satellites:
- similar information is collected from airborne or Earth-based platforms;
- such information may be distributed to earth stations within the system concerned;
- platform interrogation may be included.

This service may also include feeder links necessary for its operation.

- Meteorological-Satellite Service (MET-S): An earth exploration-satellite service for meteorological purposes.
- Standard Frequency and Time Signal Service (FPH): A radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception.
- Standard Frequency and Time Signal-Satellite Service (FPH-S): A radiocommunication service using space stations on earth satellites for the same purposes as those of the standard frequency and time signal service.

This service may also include feeder links necessary for its operation.

- Space Research Service (INVES): A radiocommunication service in which spacecraft or other objects in space are used for scientific or technological research purposes.
- Amateur Service (AM): A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

- Amateur-Satellite Service (AM-S): A radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service.
- Radio Astronomy Service (RAST): A service involving the use of radio astronomy.

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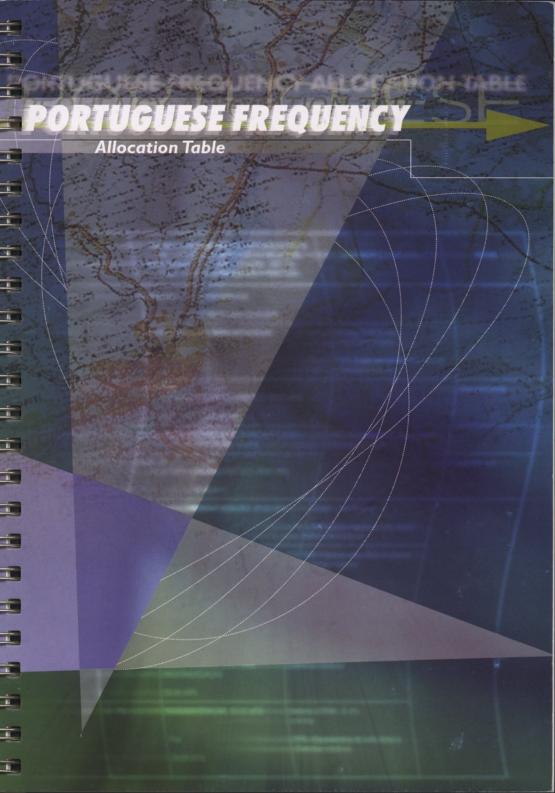
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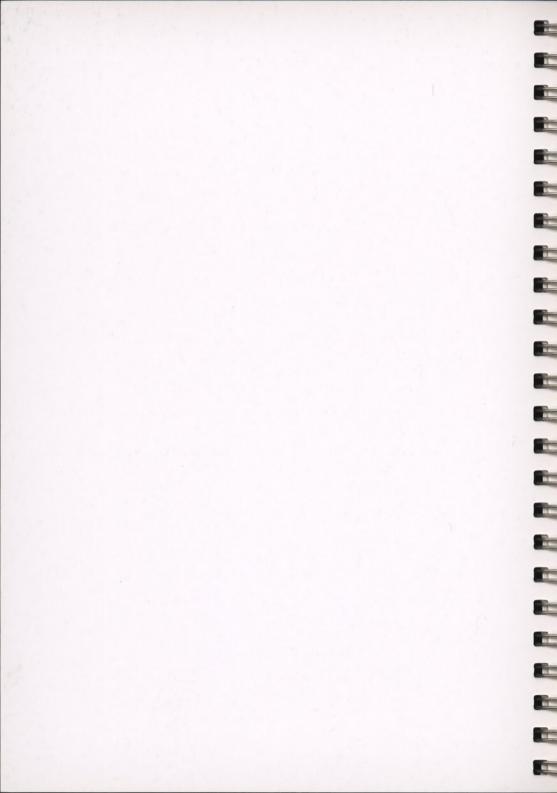
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- Safety Service (SEG): Any radiocommunication service used permanently or temporarily for the safeguarding of human life and property.
- Special Service (ESP): A radiocommunication service not otherwise defined, carried on exclusively for specific needs of general utility, and not open to public correspondence.
- Industrial, Scientific and Medical Applications (of radio frequency energy) (ISM): Operation
  of equipment or appliances designed to generate and use locally radio frequency energy for
  industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of
  telecommunications.





## 3. PORTUGUESE FREQUENCY ALLOCATION TABLE

## **INSTRUCTIONS**

Column 1: FREQUENCY BANDS

Shows the frequency band to which each line of the table is related to.

Column 2: ALLOCATION FROM THE SIMPLIFIED RR (Art. S5) APPLIED TO PORTUGAL

Contains, for each frequency band:

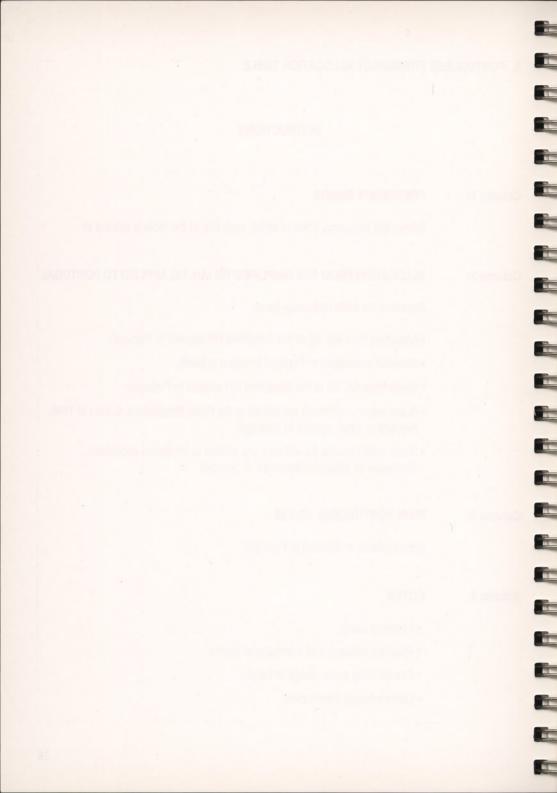
- Allocation from Art. S5 of the Simplified RR applied to Portugal;
- · Services authorised in Portugal (marked in bold);
- · Notes from Art. S5 of the Simplified RR applied to Portugal;
- Notes within parenthesis are related to the Radio Regulations, Edition of 1990, Revised in 1994, applied to Portugal;
- Notes within double parenthesis are related to additional allocations, alternative or different categories of services.

Column 3: MAIN PORTUGUESE USAGE

Main systems authorised in Portugal.

Column 4: NOTES

- · Planning used;
- · Relevant national and international norms;
- Conditioning to the usage of bands;
- Other relevant information.



FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
Below 9	(not allocated) S5.53 (444), S5.54 (445)	Nacio La Carriera Assessa	
9 - 14	RADIONAVIGATION	OMEGA System (RV) (10,2; 11,33 and 13,6 kHz) SRD - Short Range Devices (Inductive Systems)	pul publica mini publica h
14 - 19,95	FIXED MARITIME MOBILE \$5.57 (448) \$5.56 (447)	SRD - Short Range Devices (Inductive Systems)	Government
19,95 - 20,05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)		
20,05 - 70	FIXED MARITIME MOBILE \$5.57 (448) \$5.56 (447)	100 015 VOTS	Government
70 - 72	RADIONAVIGATION S5.60 (451)	DECCA System (RV)  SRD - Short Range Devices (Inductive Systems)	DE SERVICIO DE SER
72 - 84	FIXED MARITIME MOBILE S5.57 (448) RADIONAVIGATION S5.60 (451) S5.56 (447)	SRD - Short Range Devices (Inductive Systems)	23000 000 0100000000000000000000000000000
84 - 86	RADIONAVIGATION S5.60 (451)	DECCA System (RV) SRD - Short Range Devices (Inductive Systems)	
86 - 90	FIXED MARITIME MOBILE \$5.57 (448) RADIONAVIGATION	SRD - Short Range Devices	
90 - 110	\$5.56 (447)  RADIONAVIGATION \$5.62 (453)	(Inductive Systems)  LORAN - C System (RV) (100 kHz)	
	Fixed S5.64 (454)	SRD - Short Range Devices (Inductive Systems)	

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FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
110 - 112	FIXED MARITIME MOBILE RADIONAVIGATION S5.64 (454)	SRD - Short Range Devices (Inductive Systems)	10 kg
112 - 115	RADIONAVIGATION S5.60 (451)	DECCA System (RV) SRD - Short Range Devices (Inductive Systems)	
115 - 117,6	RADIONAVIGATION S5.60 (451) Fixed Maritime Mobile S5.64 (454)	SRD - Short Range Devices (Inductive Systems)	
117,6 - 126	FIXED MARITIME MOBILE RADIONAVIGATION \$5.60 (451) \$5.64 (454)	SRD - Short Range Devices (Inductive Systems)	
126 - 129	RADIONAVIGATION S5.60 (451)	DECCA System (RV) SRD - Short Range Devices (Inductive Systems)	
129 - 130	FIXED MARITIME MOBILE RADIONAVIGATION S5.60 (451) S5.64 (454)	SRD - Short Range Devices (Inductive Systems) (9 - 135 kHz)	
130 - 148,5	MARITIME MOBILE FIXED S5.64 (454)	COLUMN TO A COLUMN	Government
148,5 - 255	BROADCASTING		03999
255 - 283,5	BROADCASTING  AERONAUTICAL RADIONAVIGATION	NDB - Radiobeacons (RVA)	ICAO - (Annex 10)
283,5 - 315	MARITIME RADIONAVIGATION (radiobeacons) S5.73 (466)  AERONAUTICAL RADIONAVIGATION  S5.74 (466A)	NDB - Radiobeacons (RVM)  NDB - Radiobeacons (RVA)  OMEGA DIFFERENTIAL System (RV) (285 - 315 kHz)	GE-85 (Radiobeacons) S5.74 (RR466A): (285,3-285,7 kHz) ICAO - (Annex 10)

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
315 - 325	AERONAUTICAL RADIONAVIGATION	NDB - Radiobeacons (RVA)	ICAO - (Annex 10)
	Maritime Radionavigation (radiobeacons) \$5.73 (466)	OMEGA DIFFERENTIAL System (RV)	TAMA 0884.0
325 - 405	AERONAUTICAL RADIONAVIGATION	NDB and LOCATOR - Radiobeacons (RVA)  OMEGA DIFFERENTIAL System (RV)	ICAO - (Annex 10)
405 - 415	RADIONAVIGATION \$5.76 (468)	OMEGA DIFFERENTIAL System (RV)	es and
415 - 435	AERONAUTICAL RADIONAVIGATION	NDB and LOCATOR - Radiobeacons (RVA)	ICAO - (Annex 10)
	MARITIME MOBILE S5.79 (470)	Maritime Mobile (MM)	GE-85
435 - 495	MARITIME MOBILE S5.79 (470) Aeronautical Radionavigation	Maritime Mobile (MM)	GE-85
	S5.81 (471), S5.82 (472A)		
495 - 505	MOBILE (distress and calling)	Mobile (MOV)	RR Ap. S13 (3010): 500 kHz
	S5.83 (472)		
505 - 526,5	MARITIME MOBILE \$5.79 (470)	Maritime Mobile (MM)	GE-85
		NAVTEX - International System (MM) (518 kHz)	
	AERONAUTICAL RADIONAVIGATION	NDB - Radiobeacons (RVA) (510-526,5 kHz)	ICAO - (Annex 10)
	S5.81 (471), S5.84 (474)		
526,5 - 1606,5	BROADCASTING	Sound Broadcasting (RAD)	GE-75
1606,5 - 1625	MARITIME MOBILE \$5.90 (480A) FIXED LAND MOBILE	Maritime Mobile (MM)	GE-85
	S5.92 (484)	(f) and the section of the section of	7.11
1625 - 1635	RADIOLOCATION	and the second s	
1635 - 1800	MARITIME MOBILE \$5.90 (480A) FIXED LAND MOBILE	Maritime Mobile (MM)	GE-85
	S5.92 (484)	HAT ON YOUR DISTRICT	

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FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1800 - 1810	RADIOLOCATION	- 6.50 MININGSKYANDOGAN JAC	rate lamas en es
1810 - 1850	<b>AMATEUR</b> S5.100 (492)	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
1850 - 2000	FIXED MOBILE except aeronautical mobile S5.92 (484), S5.103 (495)		RR Res. 704 (Mob-83)
2000 - 2025	FIXED MOBILE except aeronautical mobile (R) S5.92 (484), S5.103 (495)		RR Res. 704 (Mob-83)
2025 - 2045	FIXED MOBILE except aeronautical mobile (R) Meteorological Aids S5.104 (496) S5.92 (484), S5.103 (495)	parameter parame	Government RR Res. 704 (Mob-83)
2045 - 2160	MARITIME MOBILE FIXED LAND MOBILE S5.92 (484)	Maritime Mobile (MM)	GE-85
2160 - 2170	RADIOLOCATION	William Committee	
2170 - 2173,5	MARITIME MOBILE	COL HOUSENINGSHAP BALL	TO MESA
2173,5 - 2190,5	MOBILE (distress and calling) S5.108 (500), S5.109 (500A), S5.110 (500B), S5.111 (501)	Mobile (distress and calling)	RR Ap. S13 (3010): 2174,5 ; 2182 and 2187,5 kHz
2190,5 - 2194	MARITIME MOBILE		
2194 - 2300	FIXED MOBILE except aeronautical mobile (R) S5.92 (484), S5.103 (495)		Government: (2207-2222 kHz)
2300 - 2498	FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 (503) S5.103 (495)		RR Res. 704 (Mob-83)  Government: (2387-2411 kHz)
2498 - 2501	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	DEU CONTRA SON IN	

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FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
2501 - 2502	STANDARD FREQUENCY AND TIME SIGNAL Space Research	provide the second con-	
2502 - 2625	FIXED MOBILE except aeronautical mobile (R) S5.92 (484), S5.103 (495)	elect contract part and a second part	Government: (2502-2555 kHz)
2625 - 2650	MARITIME MOBILE MARITIME RADIONAVIGATION S5.92 (484)	000000000000000000000000000000000000000	RR Res. 704 (Mob-83)
2650 - 2850	FIXED MOBILE except aeronautical mobile (R) S5.92 (484), S5.103 (495)	Fixed (FIX) Mobile (MOV)	RR Res. 704 (Mob-83) Government: (2650-2725 kHz)
2850 - 3025	AERONAUTICAL MOBILE (R) S5.111 (501), S5.115 (505)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
3025 - 3155	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
3155 - 3200	FIXED MOBILE except aeronautical mobile (R) S5.116 (506)	Fixed (FIX) Mobile (MOV)	RR Res. 704 (Mob-83)
3200 - 3230	FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 (503) S5.116 (506)		1800 Ode 1
3230 - 3400	FIXED MOBILE except aeronautical mobile BROADCASTING S5.113 (503) S5.116 (506)		DATE STORY
3400 - 3500	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
3500 - 3800	AMATEUR S5.120 (510)  FIXED  MOBILE except aeronautical mobile  S5.92 (484)	Amateur (AM) Fixed (FIX) Mobile (MOV)	Amateur National Regulations CEPT Rec. T/R 61-01 RR Res. 704 (Mob-83)

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
3800 - 3900	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	Fixed (FIX) Aeronautical Mobile (MAOR) Land Mobile (MT)	
3900 - 3950	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
3950 - 4000	FIXED BROADCASTING	Fixed (FIX)	
4000 - 4063	FIXED MARITIME MOBILE S5.127 (517)	NOTE OF A STATE OF	0 180
4063 - 4438	MARITIME MOBILE S5.109 (500A), S5.110 (500B), S5.130 (520), S5.131 (520A), S5.132 (520B)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (4065-4152; 4351-4438kHz) RR Ap. S25 (Ap. 25): (4351-4438 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (4209,25-4219,25 kHz) RR Ap. S17 (Ap. 33): (4202,25-4207,25 kHz) RR Ap. S13 (3010): 4125; 4177,5 and 4207,5 kHz  Government: (4063-4094 kHz) (4146,6-4162,5 kHz) (4166-4170 kHz)
4438 - 4650	FIXED MOBILE except aeronautical mobile (R)	Fixed (FIX) Mobile (MOV)	000 000
4650 - 4700	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
4700 - 4750	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
4750 - 4850	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING S5.113 (503)	Fixed (FIX) Aeronautical Mobile (MAOR)	A
4850 - 4995	FIXED LAND MOBILE BROADCASTING S5.113 (503)	Fixed (FIX) Land Mobile (MT)	
4995 - 5003	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)		

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
5003 - 5005	STANDARD FREQUENCY AND TIME SIGNAL Space Research		THE SERVICE
5005 - 5060	FIXED BROADCASTING S5.113 (503)	Fixed (FIX)	
5060 - 5250	FIXED Mobile except aeronautical mobile		
5250 - 5450	FIXED MOBILE except aeronautical mobile		
5450 - 5480	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	Fixed (FIX) Aeronautical Mobile (MAOR)	RR Ap. S26 (Ap. 26)
5480 - 5680	AERONAUTICAL MOBILE (R) S5.111 (501), S5.115 (505)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
5680 - 5730	AERONAUTICAL MOBILE (OR) S5.111 (501), S5.115 (505)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
5730 - 5900	FIXED LAND MOBILE	Fixed (FIX)	
5900 - 5950	BROADCASTING S5.134 (521A), S5.135 (521B) S5.136 (521C)		Frequencies to be assigned to the Broadcasting service, only after a competent WRC.
5950 - 6200	BROADCASTING	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17)
		200774	metal are de
		Tool .	12.00 miles

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
6200 - 6525	MARITIME MOBILE S5.109 (500A), S5.110 (500B), S5.130 (520), S5.132 (520B)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (6200-6233; 6501-6525 kHz) RR Ap. S25 (Ap. 25): (6501-6525 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (6313,75-6330,75 kHz) RR Ap. S17 (Ap. 33): (6300,25-6311,75 kHz) RR Ap. S17 (Ap. 35): (6284,75-6300,25 kHz)
		AMERICA CONTRACTOR AND ASSESSMENT	RR Ap. S13 (3010): 6215; 6268 and 6312 kHz Government: (6200-6203,1 kHz) (6206,2-6215,5 kHz) (6221,7-6246,5 kHz) (6248-6256 kHz)
	S5.137 (522)	1863.8132.00	(6321-6362 kHz)
6525 - 6685	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
6685 - 6765	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
6765 - 7000	FIXED Land Mobile	Fixed (FIX) Land Mobile(MT)  SRD - Short Range Devices (6765-6795 kHz)  ISM - Industrial, Scientific and Medical	CEPT Rec. T/R 01-04
	S5.138 (524)	applications (6765-6795 kHz)	1
7000 - 7100	AMATEUR S5.120 (510)  AMATEUR SATELLITE	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
7100 - 7300	BROADCASTING	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17)
7300 - 7350	BROADCASTING S5.134 (521A), S5.135 (521B) S5.143 (528A)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference
7350 - 8100	FIXED Land Mobile	Fixed (FIX)	

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
8100 - 8195	FIXED MARITIME MOBILE	Fixed (FIX) Maritime Mobile (MM)	Total process and the second s
8195 - 8815	MARITIME MOBILE \$5.109 (500A), \$5.110 (500B), \$5.132 (520B), \$5.145 (529A)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (8195-8300; 8707-8815 kHz) RR Ap. S25 (Ap. 25): (8707-8815 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (8376,25-8396,25); (8416,25-8436,25 kHz) RR Ap. S17 (Ap. 33): (8396,25-8414,25 kHz) RR Ap. S17 (Ap. 34): (8365,75-8370,75 kHz) RR Ap. S17 (Ap. 35): (8341,75-8365,75); (8370,75-8376,25 kHz) RR Ap. S13 (3010): 8291; 8376,5 and 8414,5 kHz) Government: (8201,2-8232,2 kHz) (8260,1-8272,5 kHz) (8300-8328 kHz) (8331,5-8343,5 kHz)
8815 - 8965	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
8965 - 9040	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
9040 - 9400	FIXED	Fixed (FIX)	
9400 - 9500	BROADCASTING S5.134 (521A), S5.135 (521B) S5.146 (529B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference .
9500 - 9900	BROADCASTING  \$5.147 (530), \$5.148 (531)	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17) : (9500-9775 kHz)  RR S5.148 (531) : (9775-9900 kHz)
9900 - 9995	FIXED	Fixed (FIX)	
9995 - 10003	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) S5.111 (501)		

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
10003 - 10005	STANDARD FREQUENCY AND TIME SIGNAL Space Research		
gracemymala	S5.111 (501)		
10005 - 10100	AERONAUTICAL MOBILE (R) S5.111 (501)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
10100 - 10150	FIXED Amateur S5.120 (510)	Fixed (FIX) Amateur (AM)	Amateur National Regulations
10150 - 11175	FIXED Mobile except aeronautical mobile (R)	Fixed (FIX)	
11175 - 11275	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
11275 - 11400	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
11400 - 11600	FIXED	Fixed (FIX)	
11600 - 11650	BROADCASTING S5.134 (521A), S5.135 (521B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference.
	S5.146 (529B)		
11650 - 12050	BROADCASTING  S5.147 (530), S5.148 (531)	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17): (11700-11975 kHz) RR S5.148 (531): (11650-11700 kHz); (11975-12050 kHz)
12050 - 12100	BROADCASTING \$5.134 (521A), \$5.135 (521B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference.
	S5.146 (529B)		
12100 - 12230	FIXED	Fixed (FIX)	

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FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
12230 - 13200	MARITIME MOBILE S5.109 (500A), S5.110 (500B), S5.132 (520B), S5.145 (529A)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (12230-12368); (13077-13200 kHz) RR Ap. S25 (Ap. 25): (13077-13200 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (12476,75-12549,75); (12578,75-12656,75 kHz) RR Ap. S17 (Ap. 33): (12559,75-12576,75 kHz) RR Ap. S17 (Ap. 33): (1259,75-12576,75 kHz) RR Ap. S17 (Ap. 35): (12421,75-12476,75 kHz) RR Ap. S13 (3010): 12290; 12520 and 12577 kHz  Government: (12339,3-12348,6 kHz) (12351,7-12392 kHz) (12395,1-12401,3 kHz) (12439,5-12479,5 kHz)
13200 - 13260	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	(12483-12491 kHz)  Government  RR Ap. S26 (Ap. 26)
13260 - 13360	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
13360 - 13410	FIXED RADIO ASTRONOMY S5.149 (533)	Fixed (FIX)	
13410 - 13570	FIXED Mobile except aeronautical mobile (R)  S5.150 (534)	Fixed (FIX) Mobile (MOV)  SRD - Short Range Devices (13553-13567 kHz)  ISM - Industrial, Scientific and Medical applications (13553-13567 kHz)	CEPT Rec. T/R 01-04
13570 - 13600	BROADCASTING S5.134 (521A), S5.135 (521B)	(1000 1001 NIE)	Frequencies to be assigned to the Broadcasting service, only after a Planning Conference .
	S5.151 (534A)		

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FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
13600 - 13800	BROADCASTING	Sound Broadcasting (RAD)	RR S5.148 (531)
	S5.148 (531)		
13800 - 13870	BROADCASTING S5.134 (521A), S5.135 (521B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference.
	S5.151 (534A)		
13870 - 14000	FIXED	Fixed (FIX)	
	Mobile except aeronautical mobile (R)		
14000 - 14250	AMATEUR S5.120 (510)	Amateur (AM)	Amateur National Regulations
	AMATEUR-SATELLITE		CEPT Rec. T/R 61-01
14250 - 14350	AMATEUR \$5.120 (510)		
14350 - 14990	FIXED Mobile except aeronautical mobile (R)	Fixed (FIX)	
14990 - 15005	STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) S5.111 (501)		
15005 - 15010	STANDARD FREQUENCY AND TIME SIGNAL Space Research		
15010 - 15100	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RRAp. S26 (Ap. 26)
15100 - 15600	BROADCASTING	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17) : (15100-15400 kHz)
	S5.148 (531)		RR S5.148 (531) : (15450-15600 kHz)
15600 - 15800	BROADCASTING S5.134 (521A), S5.135 (521B) S5.146 (529B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference.
15800 - 16360	FIXED	Fixed (FiX)	

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FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
16360 - 17410	MARITIME MOBILE \$5.109 (500A), \$5.110 (500B), \$5.132 (520B), \$5.145 (529A)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (16360-16549); (17242-17410 kHz) RR Ap. S25 (Ap. 25): (17242-17410 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (16883,25-16733,75); (16806,25-16902,75 kHz) RR Ap. S17 (Ap. 33): (16784,75-16804,25 kHz) RR Ap. S17 (Ap. 35): (16618,75-16683,25 kHz) RR Ap. S13 (3010): 16420; 16695 and 16804,5 kHz Government: (16460-16503,4 kHz) (16506,5-16515,8 kHz) (16596,4-16636,5 kHz) (16696,4-16636,5 kHz)
17410 - 17480	FIXED	Fixed (FIX)	
17480 - 17550	BROADCASTING S5.134 (521A), S5.135 (521B) S5.146 (529B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference.
17550 - 17900	BROADCASTING S5.148 (531)	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17): (17700-17900 kHz) RR S5.148 (531): (17550-17700 kHz)
17900 - 17970	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (MAR)	RR Ap. S27 (Ap. 27 Aer2)
17970 - 18030	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (MAOR)	Government RR Ap. S26 (Ap. 26)
18030 - 18052	FIXED	Fixed (FIX)	
18052 - 18068	FIXED Space Research	- Indeed	0.00
18068 - 18168	AMATEUR S5.120 (510)  AMATEUR-SATELLITE	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
18168 - 18780	FIXED . Mobile except aeronautical mobile	Fixed (FIX)	
18780 - 18900	MARITIME MOBILE		RR Ap. S17 (Ap. 16): (18780-18846 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (18870-18892,75 kHz) RR Ap. S17 (Ap. 33): (18892,75-18898,25 kHz)
18900 - 19020	BROADCASTING S5.134 (521A), S5.135 (521B) S5.146 (529B)		Frequencies to be assigned to the Broadcasting service, only after a Planning Conference.
19020 - 19680	FIXED	Fixed (FIX)	
19680 - 19800	MARITIME MOBILE \$5.132 (520B)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (19755-19800 kHz) RR Ap. S25 (Ap. 25): (19755-19800 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (19680,25-19703,25 kHz)
19800 - 19990	FIXED	Fixed (FIX)	mag - al
19990 - 19995	STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 (501)		
19995 - 20010	STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz) S5.111 (501)	GO S STATE OF THE	
20010 - 21000	FIXED Mobile	Fixed (FIX) Mobile (MOV)	
21000 - 21450	AMATEUR S5.120 (510)  AMATEUR-SATELLITE	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
21450 - 21850	BROADCASTING S5.148 (531)	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17): (21450-21750 kHz) RR S5.148 (531): (21750-21850 kHz)

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
21850 - 21870	FIXED	Fixed (FIX)	() Oktober militarin
21870 - 21924	FIXED S5.155B	The second second second	
21924 - 22000	AERONAUTICAL MOBILE (R)		RR Ap. S27 (Ap. 27 Aer2)
22000 - 22855	MARITIME MOBILE \$5.132 (520B)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (22000-22180); (22696-22855 kHz) RR Ap. S25 (Ap. 25): (22696-22855 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (22284,25-22351,75); (22375,75-22443,75 kHz) RR Ap. S17 (Ap. 33): (22351,75-22374,25 kHz) RR Ap. S17 (Ap. 34): (22279,25-22284,25 kHz) RR Ap. S17 (Ap. 35): (22241,75-22279,25 kHz) Government: (22068,2-22093 kHz) (22139,5-22160,5 kHz) (22164-22192 kHz)
22855 - 23000	FIXED	Fixed (FIX)	
23000 - 23200	FIXED Mobile except aeronautical mobile (R)	Fixed (FIX) Mobile (MOV)	And the same of
23200 - 23350	AERONAUTICAL MOBILE (OR) FIXED S5.156A	Aeronautical Mobile (MAOR)	
23350 - 24000	FIXED MOBILE except aeronautical mobile S5.157 (541)	Fixed (FIX)	
24000 - 24890	FIXED LAND MOBILE		
24890 - 24990	AMATEUR S5.120 (510)  AMATEUR-SATELLITE	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
24990 - 25005	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)		

FREQUENCY BANDS (kHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
25005 - 25010	STANDARD FREQUENCY AND TIME SIGNAL Space Research		
25010 - 25070	FIXED MOBILE except aeronautical mobile	MILITARY SANTUR	
25070 - 25210	MARITIME MOBILE	Maritime Mobile (MM)	RR Ap. S17 (Ap. 16): (25070-25121); (26145-26175 kHz) RR Ap. S25 (Ap. 25) (26145-26175 kHz) RR Ap. S17 (Ap. 31) RR Ap. S17 (Ap. 32): (25172-75-25192-75); (26100.25-26120,75 kHz) RR Ap. S17 (Ap. 33): (25192-75-25208,25 kHz) RR Ap. S17 (Ap. 34): (25191-75-75-75-75-75-75-75-75-75-75-75-75-75-
25210 - 25550	FIXED MOBILE except aeronautical mobile	Fixed (FIX)	
25550 - 25670	RADIO ASTRONOMY S5.149 (545)		usud jir kati lek
25670 - 26100	BROADCASTING	Sound Broadcasting (RAD)	RR Art. S12A (Art. 17)
26100 - 26175	MARITIME MOBILE S5.132 (520B)	Maritime Mobile (MM)	RR Ap. S17 (Ap. 31)
26175 - 27500	FIXED MOBILE except aeronautical mobile	Fixed (FIX) Mobile (MOV)  SRD - Short Range Devices (26957-27283 kHz)	CEPT Rec. T/R 01-04
		(26995; 27045; 27095; 27145 and 27195 kHz)	LEGIST CASSING
		ISM - Industrial, Scientific and Medical applications (26957-27283 kHz)	CEPT Rec. T/R 20-03
		CB - Citizen's Band (MOV) (26965-27405 kHz)	CEPT Rec. T/R 20-09
	S5.150 (546)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
27,5-28	METEOROLOGICAL AIDS FIXED MOBILE	CTO - Cordless Telephones (MOV) (27,550 - 27,825 MHz)	Frequency use of 27,9 MHz (+/- 100 kHz) is conditioned
28-29,7	AMATEUR AMATEUR-SATELLITE	Amateur (AM)  Amateur-Satellite (AM-S)	Amateur National Regulations CEPT Rec. T/R 61-01
29,7-30,005	FIXED MOBILE	SMT - Private Mobile Radio (MOV)  SRD - Short Range Devices (29,980; 29,990; 30,000 MHz)	40 MHz Channel Plan CEPT Rec. T/R 20-04
30,005-30,01	SPACE OPERATION (satellite identification ) FIXED MOBILE  SPACE RESEARCH	SMT - Private Mobile Radio (MOV) SRD - Short Range Devices (30,010 MHz)	40 MHz Channel Plan CEPT Rec. T/R 20-04
30,01-37,5	FIXED MOBILE	SMT - Private Mobile Radio (MOV)  SRD - Short Range Devices Wireless Microphones (34,50; 34,75 MHz)  Telecomand for Aircraft models (35,005-35,205 MHz)  CT0 - Cordless Telephones (MOV) (37,000 - 37,275 MHz)	40 MHz Channel Plan CEPT Rec. T/R 20-06  Government: (31,06-33,08; 36,2-36,6 MHz)
37,5-38,25	FIXED MOBILE Radio Astronomy S5.149 (547)	SMT - Private Mobile Radio (MOV)	40 MHz Channel Plan Government : (37,74 - 38,25 MHz)
38,25-39,986	FIXED MOBILE		40 MHz Channel Plan Government : (38.25 - 39,76 MHz)
39,986-40,02	FIXED MOBILE Space Research		40 MHz Channel Plan

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
40,02-40,98	FIXED MOBILE	SMT - Private Mobile Radio (MOV)	40 MHZ Channel Plan
		SRD - Short Range Devices (40,66 - 40,70 MHz) (40,665; 40,695 MHz)	CEPT Rec. T/R 01-04
	S5.150 (548)	ISM - Industrial, Scientific and Medical applications (40,66 - 40,70 MHz)	CEPT Rec. T/R 20-03
40,98-41,015	FIXED MOBILE Space Research	Land Mobile (MOV)	Government
41,015-47	FIXED MOBILE		
47-68	BROADCASTING	Television Broadcasting (RAD)	Band I ST-61
68-74,8	FIXED MOBILE except aeronautical mobile	SMT - Private Mobile Radio (MOV)	80 MHz Chanel Plan Government:
	S5.149 (568)		(68,888 - 69,388 MHz)
74,8-75,2	AERONAUTICAL RADIONAVIGATION S5.180 (572)	Aeronautical Radiobeacons - ILS/Glide path markers (RVA)	ICAO - (Annex 10)
75,2-87,5	FIXED MOBILE except aeronautical mobile	SMT - Private Mobile Radio (MOV)	80 MHz Chanel Plan
			Government: (75,2 - 75,713 MHz) (79,413 - 79,913 MHz) (85,738 - 86,238 MHz)
87,5-100	BROADCASTING	Sound Broadcasting (RAD)	Band II - FM
100-108	BROADCASTING		GE-84
108-117,975	AERONAUTICAL RADIONAVIGATION	Aeronautical Radiobeacons - VOR and ILS localizers (RVA)	ICAO - (Annex 10)  RR S5.198 (591) : S9.21 (Art. 14)
			RR Ap. S13 (3010) : 121,5 MHz

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
117,975-136	AERONAUTICAL MOBILE (R)  Aeronautical Mobile-Satellite (R)  S5.198 (591)  S5.111 (501), S5.199 (592), S5.200 (593)	Aeronautical Mobile (MAR)	ICAO - (Annex 10)  RR S5.198 (591): S9.21 (Art. 14)  RR Ap. S13 (3010): 121,5 MHz
136-137	AERONAUTICAL MOBILE (R) Fixed Mobile except aeronautical mobile (R) S5.198 (591), S5.203 (595)		ICAO - (Annex 10)  RR S5.198 (591): S9.21 (Art. 14)
137-137,025	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.209 (599B), S5.208A SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R)		
	S5.208 (599A)		
137,025-137,175	SPACE OPERATION (space-to-Earth)  METEOROLOGICAL-SATELLITE (space-to-Earth)  SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) S5.209 (599B), S5.208A Mobile except aeronautical mobile (R)	METEOSAT - Low Resolution Picture Transmissions - LRPT (MET-S)	Meteosat will replace APT system
	S5.208 (599A)	(100 E 100 E 1	

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
137,175-137,825	SPACE OPERATION (space-to-Earth)	managain	
	METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOSAT - Low Resolution Picture Transmission - LRPT (MET-S) - Automatic Picture Transmission - APT (MET-S) (137,5 - 137,62 MHz)	Meteosat will replace APT system
	MOBILE- SATELLITE (space-to-Earth) S5.209 (599B), S5.208A SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R)		
	\$5.208 (599A)		
137,825-138	SPACE OPERATION (space-to-Earth)  METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOSAT - Low Resolution Picture Transmission - LRPT (MET-S)	Meteosat will replace APT system
	SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) S5.209 (599B), S5.208A Mobile except aeronautical mobile (R)		
	Account to the control of the contro	TEST TO THE RESIDENCE OF THE PARTY OF THE PA	
	S5.208 (599A)		
138-143,6	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR) (MAOR)	Government
143,6-143,65	AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth)		
143,65-144	AERONAUTICAL MOBILE (OR)		The plantage of the

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
144-146	AMATEUR \$5.120 (510)	Amateur (AM) (144 - 145,8 MHz)	Government CEPT Rec. T/R 61-01
	AMATEUR-SATELLITE	Amateur-Satellite (AM-S) (145,8 - 146 MHz) POSAT-1 (AM-S) (145,925; 145,975 MHz)	
146-148	FIXED MOBILE except Aeronautical Mobile (R)	Fixed (FIX) Mobile (MOV)	Government
148-149,900	FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) S5.209 (599B) SPACE OPERATION (Earth-to-space)	SMT - Private Mobile Radio (MOV)	160 MHz Channel Plan  RR S5.218 (608):
	S5.218 (608)	(148,285; 148,585 MHz)	S9.21 (Art. 14) Low Earth Orbiting satellite Under RR S4.4 (342)
	S5.219 (608A), (S5.221 (608C))	The color become Assume Assume	Government: (148 - 148,4 MHz) (149 - 149,9 MHz)
149,9-150,05	RADIONAVIGATION-SATELLITE  LAND MOBILE-SATELLITE (Earth-to-space) S5.209 (599B), S5.224 (609B)  S5.220 (608B), S5.222 (609),	TRANSIT - Radionavigation-Satellite System (RV-S) (150 MHz)	Transit system to be cancelled
150,05-153	S5.223 (609A)  FIXED		
30,03-133	MOBILE except Aeronautical Mobile  RADIO ASTRONOMY	SMT - Private Mobile Radio (MOV)	160 MHz Channel Plan
		SRD - Short Range Devices (150,9375; 150,95 MHz)	CEPT Rec. T/R 20-04
146.50	\$5.149 (610)	(100,0010, 100,00 mmz)	Government: (150,525 - 150,9 MHz) (151,2 - 152 MHz)
53-154	FIXED MOBILE except Aeronautical Mobile (R) Meteorological Aids	SMT - Private Mobile Radio (MOV)	160 MHz Channel Plan Government: (153,6 - 154 MHz)

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
154-156,7625	FIXED MOBILE except Aeronautical Mobile (R)	SMT - Private Mobile Radio (MOV) SMM - Maritime Mobile Networks (MOV)	160 MHz Channel Plan RR Ap. S18 (Ap. 18)
		(156 - 156,7625 MHz)	RR Ap. S13 (3010) : 156,525 MHz
	SM CONT	Coast-to-Ship communications, for differential GPS (MOV): (ship station Tx = 156,075 MHz and coast	RR Ap. S18 (Ap. 18)- channel 61
		station Tx = 160,675 MHz)	
		SRD - Short Range Devices (155,5375; 155,55 MHz)	CEPT Rec.T/R 20-04  Government :
		The second of the second secon	(154 - 154,5 MHz) (155,125 - 155,5 MHz) (155,8 - 156 MHz)
	S5.226 (613), S5.227 (613A)		
156,7625-156,8375	MARITIME MOBILE (distress and calling)	Maritime Mobile (MM)	RR Ap. S18 (Ap. 18) RR Ap. S13 (3010) :
	S5.111 (501), S5.226 (613)		156,8 MHz
156,8375-174	FIXED MOBILE except Aeronautical Mobile (R)	SMT - Private Mobile Radio (MOV)	160MHz Channel Plan
		SCPP - Private radio paging (MOV)	On-site paging
		SCP - Public national radio paging (MOV) (164,925; 167,200; 167,325; 167,375 MHz)	
		ERMES - Pan-european paging system (MOV) (Freq. band 169,4 - 169,8 MHz; 1* phase: 169,425; 169,475; 169,650;	EEC Directive: 90/544/EEC CEPT Rec. T/R 25-07 ERC/DEC/(94)02
	man home and som	169,750 MHz)	A SAME
		SMM - Private Mobile Radio (MOV) (156,8375 - 158,0125 MHz) (160,6125 - 162,6125 MHz)	RR Ap. S18 (Ap. 18) and national plannification
		(100,0120 - 102,0120 MITE)	
	S5.226 (613)		2018
174-223	BROADCASTING	Television Broadcasting (RAD)	Band III ST-61
		T-DAB: Sound Broadcasting (RAD) (216-223 MHz)	Wiesbaden Agreement 1995

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
223-230	BROADCASTING Fixed Mobile	T-DAB: Sound Broadcasting (RAD)	Wiesbaden Agreement 1995 Government : (225 - 230 MHz)
230-235	FIXED MOBILE	Mobile (MOV)	Government
235-267	FIXED MOBILE  Mobile-Satellite S5.254 (641)  S5.111 (501), S5.199 (592), S5.256 (642)	Mobile (MOV)	Government  RR S5.254 (641): S9.21 (Art. 14)
267-272	FIXED MOBILE Space Operation (space-to-Earth) Mobile-Satellite S5.254 (641)	Mobile (MOV)	Government  RR S5.254 (641) and RR  S5.257 (643) : S9.21 (Art. 14)
272-273	S5.257 (643)  SPACE OPERATION (space-to-Earth) FIXED MOBILE Mobile-Satellite S5.254 (641)	Mobile (MOV)	Government  RR S5.254 (641): S9.21 (Art. 14)
273-312	FIXED MOBILE Mobile-Satellite S5.254 (641)		
312-315	FIXED MOBILE Mobile-Satellite (Earth-to-space) S5.254 (641), S5.255 (641A)	The second secon	
315-322	FIXED MOBILE S5.254 (641)	(Alak-r-sasy) mila	
322-328,6	FIXED MOBILE RADIO ASTRONOMY S5.149 (644)		ICAO - (Annex 10)

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
328,6-335,4	AERONAUTICAL RADIONAVIGATION S5.258 (645)	Aeronautical Radiobeacons - ILS/ glide path (RVA)	ICAO - (Annex 10)
335,4-387	FIXED MOBILE S5.254 (641)	Mobile (MOV)	Government
387-390	FIXED MOBILE Mobile-Satellite (space-to-Earth) S5.254 (641), S5.255 (641A), S5.208A		RR S5.254 (641) :
390-399,9	FIXED <b>MOBILE</b> S5.254 (641)	1004 1007 (100 100 100 100 100 100 100 100 100 10	
399,9-400,05	RADIONAVIGATION-SATELLITE  LAND MOBILE-SATELLITE (Earth-to-space) S5.209 (599B)  S5.220 (608B), S5.222 (609), S5.224 (609B), S5.260 (645B)	TRANSIT - Radionavigation-Satellite system (RV-S) (399,968 MHz)	Transit system to be cancelled
400,05-400,15	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400,1 MHz) S5.261 (646)		
400,15-401	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.209 (599B), S5.208A SPACE RESEARCH (space-to-Earth) S5.263 (647A) Space Operation (space-to-Earth)		
94-72 - 11-11-11-11-11-11-11-11-11-11-11-11-11		The second secon	
	S5.264 (647B)	144	91.50

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
401-402	METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) Earth Exploration-Satellite (Earth-to-space) Fixed Meteorological-Satellite (Earth-to-space)	DCP - Data Collecting Platforms for Meteorological service (MET-S) (401,9 MHz +/- 200 kHz)	
	Mobile except aeronautical mobile	-11	0.1000
402-403	METEOROLOGICAL AIDS Earth Exploration-Satellite (Earth-to-space) Fixed Meteorological-Satellite (Earth-to-space)	DCP - Data Collecting Platforms for Meteorological service (MET-S) (401,9 MHz +/- 200 kHz)	
	Mobile except aeronautical mobile	1000	
403-406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	Radiosondes (METAX)	And the Constitution
406-406,1	MOBILE-SATELLITE (Earth-to-space)	Low power EPIRB COSPAS - SARSAT (MV-S)	RR Ap. S13 (3010)
	S5.266 (649), S5.267 (649A)		0.00
406,1-410	MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149 (650)	Single channel (FIX)	Single channel links Plan Planned for unidirectional links and mobile systems in the future
410-420	FIXED  MOBILE except aeronautical mobile Space Research (space-to-space) S5.268 (651A)		Single channel links Plan Planned for bidirectional links and mobile systems in the future Government : (414 - 416,5 MHz)

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
420-430	FIXED MOBILE except aeronautical mobile Radiolocation	Single channel (FIX)  POSAT-1 (429,450; 429,520; 429,880; 429,950 MHz)	Single channel links Plan  Low Earth Orbiting satellite Under RR S4.4 (342)  Government :
430-435	AMATEUR	Ametour (AID	(426 - 428,5 MHz)  Amateur National Regulations
450-455	AMATEUR RADIOLOCATION	Amateur (AM)  SRD - Short Range Devices (433,05 - 434,79 MHz)	CEPT Rec. T/R 61-01
	S5.138, (S5.280 (662))	ISM - Industrial, Scientific and Medical applications (433,05 - 434,79 MHz)	
435-438	AMATEUR RADIOLOCATION	Three Cartes and the cartes and the	Amateur National Regulations CEPT Rec. T/R 61-01
	Amateur-Satellite S5.282 (664)	Amateur-Satellite (AM-S) (435 - 438 MHz) POSAT-1 (AM-S) (435,050; 435,075 MHz)	The amateur-satellife uses have a secondary allocation in the frequency band 435 - 438 MHz under RR \$5.282 (664)
438-440	AMATEUR RADIOLOCATION	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
440-450	FIXED	Fixed (FIX)	a uses of the same
	MOBILE except Aeronautical Mobile Radiolocation	SMT - Private Mobile Radio (MOV)	
providence			
1980	S5.286 (668)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
450-460	FIXED		
	MOBILE	SMT - Private Mobile Radio (MOV)	450 MHz Channel Plan
		SMRP - National Trunking Mobile System (MOV) (frequency assignments in the sub-band 450,0125 - 451,3875 MHz)	MPT 1327
		C450 - Public Analog Land Mobile Cellular Communications (MOV) (453,0375 - 457,5375 MHz)	C-netz
	100	SCPP - Private Radio Paging (MOV)	On-site Paging
		SRD - Short Range Devices (458,1125; 458,1250; 458,1375; 458,15 MHz)	CEPT Rec. T/R 20-04
		On board communications (maritime) (MOV) (457,525; 457,550; 457,575 MHz)	RR S5.287 (669)
	S5.286 (668), S5.286C, S5.287 (669)		Government: (458,212 - 459,362 MHz)
460-470	FIXED	day :	6301 - 66
	MOBILE	SMT - Private mobile radio (MOV)	450 MHz Channel Plan
		SMRP - National Trunking Mobile System (MOV) (frequency assignments in the sub-band 460,0125 - 461,3875 MHz)	MPT 1327
		C450 - Public Analog Land Mobile Cellular Communications (MOV) (463,0375 - 467,5375 MHz)	
		SCPP - Private Radio Paging (MOV)	On-site Paging
		On board communications (maritime) (MOV) (467,525; 467,550; 467,575 MHz)	RR S5.287 (669)
	Meteorological-Satellite (space-to-Earth) Earth Exploration-Satellite \$5.289 (671)		Government: (468,212 - 469,212; 469,362 - 469,587 MHz)
	\$5.287 (669)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
470-790	BROADCASTING	Television Broadcasting (RAD)	Bands IV (470-582 MHz) and V (582-790 MHz) (channels 21-60)
	Radio Astronomy S5.306 (689) <b>Land Mobile</b> (S5.296 (677A)) S5.149, S5.311 (693)	SMT - Private mobile radio (MOV)	ST-61
790-862	FIXED	STL - Studio Transmitter Link (FIX) (838,75 - 852,25 MHz)	
	BROADCASTING	DVB-T: Television Broadcasting (RAD) (790-822 MHz)	Band V (channels 61-64 may become available for DVB-T in 1998)
	MOBILE except aeronautical mobile (S5.316 (697))		Government : (825-862 MHz)
862-890	FIXED	Fixed (FIX)	To cancel in the short-term
	MOBILE except aeronautical mobile	Mobile (MOV)	CEPT Rec. T/R 75-02 Government : (862-870 MHz)
890-942	FIXED	Fixed (FIX)	To cancel in the short-term
	MOBILE except Aeronautical Mobile	GSM - Global System for Mobile Telecommunications (MOV) (frequency assignments in the sub-bands 890 - 914 and 935 - 942 MHz)	CEPT Rec. T/R 75-02  EEC Directive: 87/372/EEC CEPT Rec. T/R 20-08 ERC/DEC/(94)01
	Radiolocation	CT1 - Cordless Telephones (MOV) (914 - 915 MHz)	CEPT Rec. T/R 24-03
942-960	FIXED	Fixed (FIX)	To cancel in the short-term
	MOBILE except Aeronautical Mobile	GSM - Global System for Mobile Telecommunications (MOV) (frequency assignments in the sub-bands 942 - 959 MHz)	CEPT Rec. T/R 75-02  EEC Directive: 87/372/EEC  CEPT Rec. T/R 20-08  ERC/DEC/(94)01
		CT1 - Cordless Telephones (MOV) (959 - 960 MHz)	CEPT Rec. T/R 24-03

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
960 - 1215	AERONAUTICAL RADIONAVIGATION S5.328 (709)	Flight, Safety and Navigation Systems (DME, TACAN, SSR) - (RVA)	7115 THE - 92
1215 - 1240	RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) S5.329 (710) RADIONAVIGATION S5.331 (712)	GPS - Global Positioning System ( RVA-S)	
	\$5.333 (713)		(15)(1) (2) - (2)
1240 - 1260	RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) S5.329 (710) RADIONAVIGATION S5.331 (712) Amateur	Amateur (AM)	Amateur National Regulations
	\$5.333 (713)		
1260 - 1300	RADIOLOCATION RADIONAVIGATION S5.331 (712) Amateur Amateur-Satellite S5.282 (664) S5.333 (713)	Amateur (AM) Amateur-Satellite (AM-S)	
1300 - 1350	AERONAUTICAL RADIONAVIGATION S5.337 (717) Radiolocation  S5.149 (718)	Radars (RVA; RLC)	
1350 - 1400	FIXED  MOBILE RADIOLOCATION Space Research (passive) \$5.339 (720) Earth Exploration-Satellite (passive) \$5.339 (720)	Fixed Links (FIX)	Planned use in accordance with CEPT Rec. T/R 13-01 Annexes A, B Government
	S5.149 (718)	633	HIB E

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1400 - 1427	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	ALL EMISSIONS IN THIS BAND	ARE PROHIBITED
	S5.340 (721), S5.341 (722)		
1427 - 1429	SPACE OPERATION (Earth-to-space) MOBILE except aeronautical mobile S5.341 (722)		Planned use in accordance with CEPT Rec. T/R 13-01 Annex B.
1429 - 1452	MOBILE except aeronautical mobile S5.341 (722)	Fixed Links (FIX)	1,5 GHz Band Low capacity analogue and digital fixed links: up to 30 channels or 2 Mbit/s. Report ITU-R F 379-5 (To cancel in the short-term) Planned use in accordance with CEPT Rec. T/R 13-01 Annex B.
1452 - 1492	FIXED MOBILE except aeronautical mobile BROADCASTING S5.345 (722A), S5.347 (722B)	T-DAB: Sound Broadcasting (RAD)	1,5 GHz Band  RR S5.347 (722B) : applicable until 2007 Bilateral agreement between Portugal and Spain in part of the band 1452-1467,5 MHz.
	BROADCASTING-SATELLITE S5.345 (722A), (S5.347 (722B)) S5.341 (722)		Band reserved by WARC - 92 to Digital Broadcasting-Satellite sound , from 2007 onwards.
1492 - 1525	FIXED  MOBILE except aeronautical mobile		1,5 GHz Band Planned use in accordance with CEPT Rec. T/R 13-01 Annex A.
	S5.341 (722)		praz-

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1525 - 1530	SPACE OPERATION (space-to-Earth) FIXED MARITIME MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Land Mobile-Satellite (space-to-Earth) S5.352 (726B) Mobile except aeronautical mobile	Maritime Mobile-Satellite (MM-S)	Government
	S5.341 (722), S5.351 (726A), S5.354(726D)		
1530 - 1533	SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) LAND MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile except aeronautical mobile	Maritime Mobile-Satellite (MM-S)  Land Mobile-Satellite (MT-S)	1905 1.700.) 10005 - 1000 1000 1000 1000 1000 1000 1000 10
	S5.341 (722), S5.351 (726A), S5.354(726D)		
1533 - 1535	SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile except aeronautical mobile Land Mobile-Satellite (space-to-Earth) S5.352 (726B)	Land Mobile-Satellite (MT-S)	
	S5.341 (722), S5.351 (726A), S5.354(726D)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1535 - 1544	MARITIME MOBILE-SATELLITE (space-to-Earth) Land Mobile-Satellite (space-to-Earth) S5.352 (726B)	Maritime Mobile-Satellite (MM-S)	
	S5.341 (722), S5.351 (726A), S5.354(726D)		
1544 - 1545	MOBILE-SATELLITE (space-to-Earth) S5.341 (722), S5.354 (726D), S5.356(727A)	Search and rescue satellite Sytems, including GMDSS (MV-S)	International frequency band for distress and safety
1545 - 1555	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) S5.341 (722), S5.351 (726A), S5.354		
1555 - 1559	(726D), S5.357 (729), S5.358 (729A)  LAND MOBILE-SATELLITE (space-to-Earth)  S5.341 (722), S5.351 (726A), S5.354 (726D), S5.360 (730A)		
1559 - 1610	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth)	GPS - Global Positioning System (RVA-S)	
1610 - 1610,6	S5.341 (722)  MOBILE-SATELLITE (Earth-to-space)  AERONAUTICAL RADIONAVIGATION  S5.341 (722), S5.364 (731E), S5.366 (732), S5.367 (733), S5.368 (733A), S5.372 (733E), S5.371 (733F)		
1610,6 - 1613,8	MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION		Important band for Radio Astronomy in Europe
	S5.149 (734), S5.341 (722), S5.364 (731E), S5.366 (732), S5.367 (733), S5.368 (733A), S5.372 (733E), S5.371 (733F)		114.89

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1613,8 - 1626,5	MOBILE-SATELLITE (Earth-to-space) AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-to-Earth)		
	\$5.341 (722), \$5.364 (731E), \$5.365 (731F), \$5.366 (732), \$5.367 (733), \$5.368 (733A), \$5.372 (733E), \$5.371 (733F)	171.0516.0,500 101.0516.0	COMMAND RESPONDED TO THE PARTY OF THE PARTY
1626,5 - 1631,5	MARITIME MOBILE-SATELLITE (Earth-to-space) Land Mobile-Satellite (Earth-to-space) S5.352 (726B) S5.341 (722), S5.351 (726A), S5.354	Maritime Mobile-Satellite (MM-S)	
1631,5 - 1634,5	(726D)  MARITIME MOBILE-SATELLITE (Earth-to-space)  LAND MOBILE-SATELLITE (Earth-to-space)	Maritime Mobile-Satellite (MM-S)	
	S5.341 (722), S5.351 (726A), S5.354 (726D), S5.374 (734A)		15 (15 (15 (15 (15 (15 (15 (15 (15 (15 (
1634,5 - 1645,5	MARITIME MOBILE-SATELLITE (Earth-to-space) Land Mobile-Satellite (Earth-to-space) S5.352 (726B)	Land Mobile-Satellite (MT-S)	
	\$5.341 (722), \$5.351 (726A), \$5.354 (726D)		
1645,5 - 1646,5	MOBILE-SATELLITE (Earth-to-space)	Search and rescue satellite Sytems, including GMDSS (MV-S)	International frequency band for distress and safety
	S5.341 (722), S5.354 (726D), S5.375 (734B)		
1646,5 - 1656,5	AERONAUTICAL MOBILE -SATELLITE (R) (Earth-to-space)		
	S5.341 (722), S5.351 (726A), S5.354 (726D), S5.358 (729A), S5.376 (735)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1656,5 - 1660	LAND MOBILE-SATELLITE (Earth-to-space)	r anamyona a	
	\$5.341 (722), \$5.351 (726A), \$5.354 (726D), \$5.360 (730A), \$5.374 (734A)		
1660 - 1660,5	LAND MOBILE-SATELLITE (Earth-to-space)	685 88 88 88 7 48 78 88 88 88 88 88 88 88 88 88 88 88 88	
	RADIO ASTRONOMY		Important band for Radio Astronomy in Europe
	S5.149 (736), S5.341 (722), S5.351 (726A), S5.354 (726D), S5.360 (730A)		
1660,5 - 1668,4	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile		MEST STATE OF THE
	S5.149 (736), S5.341 (722), S5.379A (739)	111/07/11/07	
1668,4 - 1670	METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY		Government Important band for Radio Astronomy in Europe
	S5.149 (736), S5.341 (722)		
1670 - 1675	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth)		Government
	MOBILE S5.380 (740A)	TFTS - Terrestrial Flight Telephone System (Ground-air) (MOV)	ERC/DEC/(92)01
			100 April 200
	S5.341 (722)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1675 - 1690	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		Government
79 15 50	S5.341 (722)	ing Tourist Manager	
1690 - 1700	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile	METEOSAT: Meteorological satellites for High Resolution Pictures Transmission - HRPT (MET-S)	
	S5.289 (671), S5.341 (722)		
1700 - 1710	FIXED		
	METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		
	NAME OF THE PARTY		
	S5.289 (671), S5.341 (722)		68

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
1710 - 1980	FIXED	Fixed Links (FIX)	2 GHz Band Low and medium capacity analogue and digital fixed links: 30 - 960 channels or 2 - 34MBit/s. Rec. ITU-R F 283-5 and Rec. ITU-R F 382-6 (To cancel channel plans in the short-term)
	MOBILE S5.380 (740A)	*DCS 1800 - Digital Cellular Telecommunications System (1710 - 1785 MHz; 1805 - 1880 MHz).	CEPT Rec. T/R 22 - 07 ERC/DEC/(95)03
		TFTS - Terrestrial Flight Telephone System (air-Ground) (MOV); (1800 - 1805 MHz).	ERC/DEC/(92)01
		DECT - Digital European Cordless Telecommunication System (MOV); (1880 - 1900 MHz).	EEC Directive 91/287/EEC; CEPT Rec. T/R 22-02 ERC/DEC/(94)03
		IMT-2000 - International Mobile Telecommunication - 2000 (MOV) ; (from 1885 MHz).	WARC-92
	S5.149, S5.341 (722), S5.385 (744), S5.388 (746A)	THE TABLESON DA	11.00
1980 - 2010	FIXED MOBILE MOBILE -SATELLITE (Earth-to-space)		
	S5.388 (746A), S5.389A (746B)		
2010 - 2025	FIXED	Fixed Links (FIX)	2 GHz Band
	MOBILE	IMT-2000 - International Mobile Telecommunication - 2000 (MOV)	WARC-92
	S5.388 (746A)	per ness ma	

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
2025 - 2110	FIXED	Fixed Links (FIX)	2 GHz Band Planned use in accordance with T/R 13-01 Annex C.
	SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space)	TCR - Tracking, Control and Ranging (OE)	TITA 13-01 Allilex C.
	MOBILE S5.391 (747A) SPACE RESEARCH (Earth-to-space) (space-to-space)		
	S5.392 (750A)		
2110 - 2120	FIXED	Fixed Links (FIX)	2 GHz Band Low and medium capacity analogue and digital fixed links: 30 - 960 channels or 2 - 34MBit/s.
			Rec. ITU-R F 283-5 and Rec. ITU-R F 382-6 (To cancel channel plans in the short-term)
	MOBILE  SPACE RESEARCH (deep space)	IMT-2000 - International Mobile Telecommunication - 2000 (MOV)	WARC-92
	(Earth-to-space) S5.388 (746A)		Danie -
2120 - 2170	FIXED MOBILE		CANT GET THE
	S5.388 (746A)		
2170 - 2200	FIXED MOBILE MOBILE-SATELLITE (space-to-Earth)		
	S5.388 (746A), S5.389A (746B)	NO. 100 TO 100 T	

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
2200 - 2290 FIXED	FIXED	Fixed Links (FIX)	2 GHz Band Low and medium capacity analogue and digital fixed links: 30 - 960 channels or 2 - 34M6it/s. Rec. ITU-R F 283-5 and Rec. ITU-R F 282-6 (To cancel channel plans in the short-term) Planned use in accordance with T/R 13-01 Annex C.
	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space)  MOBILE S5.391 (747A) SPACE RESEARCH (space-to-Earth) (space-to-space)  S5.392 (750A)	TCR - Tracking, Control and Ranging (OE)	
2290 - 2300	MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)		2 GHz Band Low and medium capacity analogue and digital fixed links: 30 - 960 channels or 2 - 34MBl/s. Rec. ITU-R F 283-5 and Rec. ITU-R F 382-6 (To cancel channel plans in the short-term)
2300 - 2400	MOBILE Amateur Radiolocation	Fixed Links (FIX)	2 GHz Band ENG Links (Rep. ITU-R 933)
	S5.150 (752), S5.282 (664)		

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
2400 - 2450	FIXED  MOBILE  Amateur  Amateur-Satellite \$5.282 (664)	Fixed Links (FIX)  Amateur - Satellite (AM-S)	2 GHz Band ENG Links (Rep. ITU-R 933)
	Radiolocation	SRD - Short Range Devices (2400-2483,5 MHz)	CEPT Rec. T/R 01-04
	S5.150 (752)	WBDTS - Wide Band Data Transmission System (2400 - 2483,5 MHz)	CEPT Rec. T/R 10-01
2450 - 2483,5	FIXED MOBILE Radiolocation	ISM - Industrial Scientific and Medical applications (2400 - 2500 MHz)	00-20 0000 - 0000
	S5.150 (752)		
2483,5 - 2500	FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) Radiolocation		CEPT Rec. ITU-R F 283-5
	S5.150 (752), S5.371 (733F), S5.398 (753A), S5.399 (753B), S5.402 (753F)		emer Are
2500 - 2520	FIXED S5.409 (762), S5.410 (763), S5.411 (764) MOBILE except aeronautical mobile	Fixed Links (FIX)	CEPT Rec. ITU-R F 283-5
	MOBILE-SATELLITE (space-to-Earth)		RR S5.414 (760A): band allocated to Mobile-Satellite Service from 1/1/2005
	S5.403 (754), S5.414 (760A)		
2520 - 2655	FIXED \$5.409 (762), \$5.410 (763), \$5.411 (764)	TOTAL SECRETARIAN	Planned use in accordance with T/R 13-01 Annex D. CEPT Rec. ITU-R F 283-5
	MOBILE except aeronautical mobile BROADCASTING-SATELLITE S5.416 (757), S5.413 (760)	100 A	
	\$5.339 (720), \$5.403 (754)		

ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
FIXED S5.409 (762), S5.410 (763), S5.411 (764)  MOBILE except aeronautical mobile BROADCASTING-SATELLITE S5.416 (757), S5.413 (760) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)	Fixed Links (FIX)	Planned use in accordance with T/R 13-01 Annex D. CEPT Rec. ITU-R F 283-5
S5.149 (765), S5.420 (766)		
FIXED S5.409 (762), S5.410 (763), S5.411 (764)  MOBILE except aeronautical mobile	500	CEPT Rec. ITU-R F 283-5
MOBILE-SATELLITE (Earth-to-space)		RR S5. 419 (764A): band allocated to Mobile-Satellite service from 1/1/2005.
Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 (765), S5.419 (764A), S5.420 (766)		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 (768)	ALL EMISSIONS IN THIS BAND	ARE PROHIBITED
AERONAUTICAL RADIONAVIGATION \$5.337 (717) METEOROLOGICAL AIDS \$5.423 (770) Radiolocation	Navigation Systems (RVA)  Meteorological Radars (METAX)  Radars (RVA, RLC)	
	OF RADIO REGULATIONS APPLICABLE IN PORTUGAL  FIXED S5.409 (762), S5.410 (763), S5.411 (764)  MOBILE except aeronautical mobile BROADCASTING-SATELLITE S5.416 (757), S5.413 (760) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  FIXED S5.409 (762), S5.410 (763), S5.411 (764)  MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space)  Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  S5.149 (765), S5.419 (764A), S5.420 (766)  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  S5.340 (768)  AERONAUTICAL RADIONAVIGATION S5.337 (717) METEOROLOGICAL AIDS S5.423 (770)	FIXED S5.409 (762), S5.410 (763), S5.411 (764)  MOBILE except aeronautical mobile BROADCASTING-SATELLITE S5.416 (757), S5.413 (760) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  FIXED S5.409 (762), S5.410 (763), S5.411 (764)  MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space)  Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)  Earth Exploration-Satellite (passive)  S5.149 (765), S5.419 (764A), S5.420 (766)  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  S5.340 (768)  AERONAUTICAL RADIONAVIGATION S5.337 (717) METEOROLOGICAL AIDS S5.423 (770)  METEOROLOGICAL AIDS S5.337 (717) METEOROLOGICAL AIDS S5.423 (770)  METEOROLOGICAL AIDS

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ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
RADIONAVIGATION S5.426 (773) Radiolocation	Radars (RVA, RLC)	77.00 200 CO
S5.425 (772), S5.427 (775A)		
RADIOLOCATION S5.333 (713), S5.149 (778)	Radars (RLC)	Government
RADIOLOCATION S5.149 (778)		
FIXED FIXED-SATELLITE (space-to-Earth) Mobile Radiolocation	Fixed-Satellite (FIX-S)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FIXED  FIXED-SATELLITE (space-to-Earth)  Mobile	Fixed Links (FIX) (3800-4200 MHz) Fixed-Satellite: V-SATs (3700-4200 MHz) (FIX-S)	4 GHz Band Medium and high capacity analogue fixed links: 600 - 1800 channels. Rec. ITU-R F 382-6
AERONAUTICAL RADIONAVIGATION \$5.438 (789) \$5.440 (791)	Radars (RVA)	
FIXED MOBILE	Fixed Links (FIX)	Government
FIXED FIXED-SATELLITE (space-to-Earth) S5.441 (792A) MOBILE		Government RR Ap. S30B (Ap. 30B)
	OF RADIO REGULATIONS APPLICABLE IN PORTUGAL  RADIONAVIGATION S5.426 (773) Radiolocation  S5.425 (772), S5.427 (775A)  RADIOLOCATION S5.333 (713), S5.149 (778)  RADIOLOCATION S5.149 (778)  FIXED FIXED-SATELLITE (space-to-Earth) Mobile Radiolocation  FIXED  FIXED S5.440 (791)  FIXED MOBILE  FIXED FIXED-SATELLITE (space-to-Earth) Mobile	OF RADIO REGULATIONS APPLICABLE IN PORTUGAL  RADIONAVIGATION S5.426 (773) Radiolocation  S5.425 (772), S5.427 (775A)  RADIOLOCATION S5.333 (713), S5.149 (778)  RADIOLOCATION S5.149 (778)  FIXED FIXED-SATELLITE (space-to-Earth) Mobile Radiolocation  FIXED FIXED-SATELLITE (space-to-Earth) Mobile AERONAUTICAL RADIONAVIGATION S5.438 (789) S5.440 (791)  FIXED FIXED FIXED MOBILE  FIXED F

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
4800 - 4990	FIXED MOBILE S5.442 (793) Radio Astronomy	Fixed Links (FIX)	Government
	S5.339 (720), S5.149 (778)		
4990 - 5000	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive)	A 100 MARINE STATE OF	
	S5.149 (795)	THE STATE OF THE S	
5000 - 5150	AERONAUTICAL RADIONAVIGATION	6-00	Band reserved for the MLS system
	S5.367 (733), S5.444 (796), S5.444A		
5150 - 5250	AERONAUTICAL RADIONAVIGATION MOBILE (\$5.447 (7978)) FIXED-SATELLITE SERVICE (Earth-to-space) \$5.447A	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
		HIPERLAN - High Performance Radio Local Area Network	CEPT Rec. T/R 22-06 ERC/DEC/(96)03
	S5.446 (797A), S5.447B, S5.447C	HESTITA	United to the second
5250 - 5255	RADIOLOCATION Space Research	HIPERLAN - High Performance Radio Local Area Network	Government CEPT Rec. T/R 22-06
	S5.333 (713)	Local Area Network	
5255 - 5350	RADIOLOCATION		Government
	\$5.333 (713)	HIPERLAN - High Performance Radio Local Area Network	
5350 - 5460	AERONAUTICAL RADIONAVIGATION S5.449 (799) Radiolocation		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
5460 - 5470	RADIONAVIGATION S5.449 (799) Radiolocation	Feet or reconstruction in Linux	
5470 - 5600	MARITIME RADIONAVIGATION Radiolocation	Radars (RVM)	
	S5.452 (802)		
5600 - 5650	MARITIME RADIONAVIGATION METEOROLOGICAL AIDS S5.452 (802) Radiolocation	Radars (RVM) Meteorological Radars (METAX)	
5650 - 5670	RADIOLOCATION		Government
	Amateur Amateur-Satellite S5.282 (664) Space Research (deep space)	Amateur-Satellite (AM-S)	
5670 - 5725	RADIOLOCATION Amateur Space Research (deep space)		
5725 - 5830	FIXED-SATELLITE (Earth-to-space) RADIOLOCATION		
	Amateur	Amateur (AM)	Amateur National Regulations
	(100 m)	SRD - Short Range Devices (5725-5875 MHz)	CEPT Rec. T/R 01-04
	REED ATTACK COMMENTS	ISM - Industrial Scientific and Medical applications (5725-5875 MHz)	
		RTT/RTI - Road Transport Telematic/ Information Systems (5795 - 5815 MHz)	CEPT Rec. T/R 22-04 (1991) ERC/DEC/(92)02
	S5.150 (806)	enter interpreta	

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
5830 - 5850	FIXED-SATELLITE (Earth-to-space) RADIOLOCATION	Company to the company of the compan	
	Amateur	Amateur (AM)	Amateur National Regulations
	Amateur-Satellite (space-to-Earth)	The second secon	
		SRD - Short Range Devices (5725-5875 MHz)	CEPT Rec. T/R 01-04
	Maria mich	ISM - Industrial Scientific and Medical applications (5725-5875 MHz)	1994 10 10 10 10 10 10 10 10 10 10 10 10 10
	and the second	RTT / RTI - Road Transport Telematic/ Information Systems (5795 - 5815 MHz)	CEPT Rec. T/R 22-04 (1991) ERC/DEC/(92)02
	S5.150 (806)	(0.00 00.0 0.0.0)	
5850 - 5925	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	Heriotal - Heriotal and anti-	
		SRD - Short Range Devices (5725-5875 MHz)	CEPT Rec. T/R 01-04
		ISM - Industrial Scientific and Medical applications (5725-5875 MHz)	
the second	S5.150 (806)		
5925 - 6700	FIXED	Fixed Links (FIX)	Lower 6 GHz band (5925-6425 MHz) Upper 6 GHz Band (6425-7110 MHz) Medium and high capacity analogue fixed links: 600 - 1800 channels. Rec. ITU-R F 383-5
No.	FIXED-SATELLITE (Earth-to-space)	Fixed-Satellite: V-SATs (5925 - 6425 MHz) - (FIX-S)	
Marin School	MOBILE		
	S5.149, S5.440 (791), S5.458 (809)		

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
6700 - 7075	FIXED	Fixed Links (FIX)	Upper 6 GHz Band (6425-7110 MHz) High capacity digital fixed links: 140 MBil/s Rec. ITU-R F 384-6
	FIXED-SATELLITE (Earth-to-space) (space-to-Earth) S5.441 (792A)	Fixed - Satellite (FIX-S)	RR Ap.S30B (Ap.S30B): (6725 - 7025 MHz)
	MOBILE		5-1 cm 10-1 570)1
	S5.458 (809), S5.458A, S5.458B, S5.458C		
7075 - 7110	FIXED MOBILE	The second state	
	S5.458 (809), S5.460 (811)		
7110 - 7250	FIXED	Fixed Links (FIX)	7 GHz Band Low capacity analogue and digits fixed links: up to 120 channels of 4x2 MBit/s, respectively Rec.ITU-R F 385-6
	MOBILE	Control State Stat	ETT COMMENT
	S5.458 (809), S5.460 (811)		
7250 - 7300	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE	Fixed-Satellite (FIX-S)	Government
			100 S 100 S
	S5.461 (812)		
7300 - 7450	FIXED		7 GHz Band Low capacity analogue an digital fixed links: up to 12 channels or 4x2 MBit/s respectively Rec.ITU-R F 385-6
	FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	Fixed-Satellite (FIX-S)	
	S5.461 (812)		

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FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
7450 - 7550	FIXED	Fixed Links (FIX)	7 GHz Band Low capacity analogue and digital fixed links: up to 120 channels or 4x2 MBites, respectively. Rec ITU-R F 385-6
	FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	Fixed - Satellite (FIX-S) Meteorological-Satellite (MET-S)	
7550 - 7750	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	Fixed-Satellite (FIX-S)	
7750 - 7900	FIXED MOBILE except aeronautical mobile	1000	
7900 - 8025	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE S5.461 (812)	Fixed-Satellite (FIX-S)	Government
8025 - 8175	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth)	Fixed Links (FIX) Fixed-Satellite (FIX-S)	
	S5.462 (813)		re loves

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
8175 - 8200	FIXED	Fixed Links (FIX)	an other law and
	FIXED-SATELLITE (Earth-to-space)	Fixed-Satellite (FIX-S)	
	METEOROLOGICAL-SATELLITE (Earth-to-space)	Meteorological-Satellite (MET-S)	000
	MOBILE		
	Earth Exploration-Satellite (space-to-Earth)	100	
	S5.462 (813)		
8200 - 8215	FIXED	Fixed Links (FIX)	8 GHz Band Medium capacity analogue fixed links: up to 960 channels Rec.ITU-R F 386-4
	FIXED-SATELLITE (Earth-to-space)	Fixed-Satellite (FIX-S)	
	METEOROLOGICAL-SATELLITE (Earth-to-space)	Meteorological-Satellite (MET-S)	201 10.00
	MOBILE		
	Earth Exploration-Satellite (space-to-Earth)	The same and the s	
	\$5.462 (813)		
8215 - 8400	FIXED	Fixed Links (FIX)	
	FIXED-SATELLITE (Earth-to-space)	Fixed-Satellite (FIX-S)	
	MOBILE		
	Earth Exploration-Satellite (space-to- Earth)		
	S5.462 (813)	200	colleges to tree was
8400 - 8500	FIXED		
	MOBILE except aeronautical mobile	Land and beautiful at their	
	SPACE RESEARCH (space-to-Earth) S5.465 (816)		

FREQUENCY BANDS (MHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
8500 - 8750	RADIOLOCATION S5.333 (713)	Company of the land	Government
8750 - 8850	RADIOLOCATION  AERONAUTICAL RADIONAVIGATION S5.470 (821)	THE TAX DESCRIPTION OF THE PERSON OF T	
8850 - 9000	RADIOLOCATION  MARITIME RADIONAVIGATION S5.472 (823)		
9000 - 9200	AERONAUTICAL RADIONAVIGATION \$5.337 (717)  Radiolocation	Radars (RVA, RLC)	ONLTH STG OF
9200 - 9300	RADIOLOCATION  MARITIME RADIONAVIGATION S5.472 (823) S5.474 (824A)	Radars (RVM, RLC) - SARTs	Government
9300 - 9500	RADIONAVIGATION S5.476 (825A)  Radiolocation  S5.427 (775A), S5.474 (824A), S5.475 (825)	Radars (RVA, RLC) - SARTs	
9500 - 9800	RADIOLOCATION RADIONAVIGATION S5.333 (713)	SRD - Short Range Devices (9500 -9975 MHz)	Government CEPT Rec. T/R 60-01
9800 - 10000	RADIOLOCATION Fixed	SRD - Short Range Devices (9500 -9975 MHz)	Government CEPT Rec. T/R 60-01
	S5.479 (828)		

FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
10 - 10,45	FIXED MOBILE RADIOLOCATION Amateur	Amateur(AM)	Amateur National Regulations
and the latest	S5.479 (828)		
10,45 - 10,5	RADIOLOCATION Amateur Amateur-Satellite	Amateur-Satellite (AM-S)	
10,5 - 10,55	FIXED  MOBILE Radiolocation	Fixed (Fix)	Analogue links. Capacity: 960channels. (transportablenais. Rec. ITU-R F 747 Annex 1
10,55 - 10,6	FIXED MOBILE except aeronautical mobile Radiolocation		1979 (75.02) Tan (5.87) (77.97) 8 Section (5.87)
10,6 - 10,68	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation		
	S5.149 (832), S5.482 (831)		
10,68 - 10,7	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	ALL EMISSIONS IN THIS E	AND ARE PROHIBITED
	\$5.340 (833)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
10,7 - 11,7	FIXED	Fixed (Fix)	11 GHz band High capacity digital fixed links : 140 MBit/s. Rec. ITU-R F 387-7 Annex 1
	FIXED-SATELLITE (space-to-Earth) (Earth-to-space) S5.441 (792A), S5.484 (835)	Fixed-Satellite: V-SATs (10,95-11,2; 11,45-11,7 GHz) - (FIX-S)	RR Ap. S30B (Ap. 30B) : (10,7-10,95 GHz;11,2-11,45 GHz)
	MOBILE except aeronautical mobile	EUTELTRACS - Land mobile satellite system for data communications	Under RR S4.4 (RR 342) CEPT Rec. T/R 21 - 09.
11,7 - 12,5	FIXED BROADCASTING BROADCASTING-SATELLITE Mobile except aeronautical mobile S5.487 (838)		RR Ap. S30 (Ap. 30), Ap. S30A (Ap. 30A) e Ap. S30B (Ap. 30B)
12,5 - 12,75	FIXED-SATELLITE (space-to-Earth) (Earth-to-space) Fixed (S5.495 (849)) Mobile except aeronautical mobile (S5.495 (849))	Fixed-Satellite : V-SATs - (FIX-S)  EUTELTRACS - Land mobile satellite system for data communications	Preferencial band for the use of VSATs networks. Under RR S4.4 (RR 342) CEPT Rec. T/R 21 - 09.
12,75 - 13,25	FIXED	Fixed (Fix)	13 GHz Band Low and medium capacity digital fixed links: up to 34 MBit/s Rec. ITU-R F 497-5
	FIXED-SATELLITE (Earth-to-space) S5.441 (792A) MOBILE Space Research (deep space) (space-to-Earth)		RR Ap. S30B (Ap. 30B)

FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
13,25 - 13,4	AERONAUTICAL RADIONAVIGATION S5.497 (851) S5.498 (852)		0.001 ×31×63
13,4 - 13,75	RADIOLOCATION Standard Frequency and Time Signal - Satellite (Earth-to-space) Space Research	SRD - Short Range Devices (13,4-14,0 GHz)	Government CEPT Rec. T/R 60-01
13,75 - 14	FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Standard Frequency and Time Signal - Satellite (Earth-to-space) Space Research		A DESCRIPTION OF THE PROPERTY
	S5.333 (713), S5.502 (855A), S5.503 (855B), S5.503A		esch (16-70)
14 - 14,25	FIXED-SATELLITE (Earth-to-space) RADIONAVIGATION \$5.504 (856) Land Mobile-Satellite (Earth-to-space) Space Research	Fixed-Satellite: V-SATs - (FIX-S)  EUTELTRACS - Land mobile satellite system for data communications	Preferencial band for the use of VSATs networks  CEPT Rec. T/R 21 - 09.
14,25 - 14,3	FIXED-SATELLITE (Earth-to-space) RADIONAVIGATION S5.504 (856) Land Mobile-Satellite (Earth-to-space) Space Research	Fixed-Satellite: V-SATs - (FIX-S)	Preferencial band for the use of VSATs networks
			CET - 12
	(\$5.508 (860))		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
14,3 - 14,4	FIXED FIXED-SATELLITE (Earth-to-space)  MOBILE except aeronautical mobile Land Mobile-Satellite(Earth-to-space) Radionavigation-Satellite	Fixed-Satellite : V-SATs - (FIX-S)	Preferencial band for the use of VSATs networks
14,4 - 14,47	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile Land Mobile-Satellite (Earth-to-space) Space Research (space-to-Earth)		
14,47 - 14,5	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile Land Mobile-Satellite (Earth-to-space) Radio Astronomy		
	\$5.149 (862)		
14,5 - 14,8	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research	Fixed (FIX)	Government : (14,62 - 15,23 GHz)
14,8 - 15,35	FIXED Mobile Space Research		
	S5. 339 (720)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
15,35 - 15,4	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	ALL EMISSIONS IN THIS BAND	ARE PROHIBITED
	S5.340 (864)	Straffers Autom 27 Licenses (ACCS) USE SE Comptions	
15,4 - 15,7	AERONAUTICAL RADIONAVIGATION S5.511B FIXED-SATELLITE (space-to-Earth) S5.511A, S5.511C		
15,7 - 16,6	RADIOLOCATION	Radars (RLC)	Government
16,6 - 17,1	RADIOLOCATION Space Research (deep space) (Earth-to-space)		
17,1 - 17,2	RADIOLOCATION	HIPERLANs - High performance radio local area network	Government CEPT Rec. T/R 22-06
17,2 - 17,3	RADIOLOCATION Earth Exploration-satellite (active) Space Research (active)		
17,3 - 17,7	FIXED-SATELLITE (Earth-to-space) S5.516 (869) Radiolocation		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
17,7 - 18,1	FIXED	Fixed (Fix)	18 GHz Band Low and high capacity digital fixed links : up to 140 MBit/s . Rec. ITU-R F 595-4
	FIXED-SATELLITE (space-to-Earth) (Earth-to-space) S5.516 (869) MOBILE		
18,1- 18,4	FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) S5.520 (870A) MOBILE		
	S5.519 (870)	Josephinia EUG	
18,4 - 18,6	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE		TE DECT   8.01 T.01
	Hard Hard Tarress		
18,6-18,8	FIXED FIXED-SATELLITE (space-to-Earth) S5.523 (872)		
	MOBILE except aeronautical mobile Earth Exploration-Satellite (passive) Space Research (passive)		an asia ( sa asia asi
	S5.522 (871)		
18,8 - 19,3	FIXED FIXED-SATELLITE (space-to-Earth) S5.523A MOBILE		14 C160 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
19,3 - 19,7	FIXED FIXED-SATELLITE (space-to-Earth) S5.523D (Earth-to-space) S5.523B MOBILE	Fixed (FIX)	
	S5.523C		
19,7 - 20,1	FIXED-SATELLITE (space-to-Earth) Mobile-satellite (space-to-Earth)		Government: (20,2 - 21,2 GHz)
20,1 - 20,2	FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)		
	S5.525 (873A), S5.526 (873B), S5.527 (873C), S5.528 (873D)		
20,2 - 21,2	FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard Frequency and Time Signal (space-to-Earth)		
21,2 - 21,4	EARTH EXPLORATION-SATELLITE		
	(passive) FIXED	Fixed (Fix)	23 GHz Band Low and medium capacity digital fixed links: up to 34 MBit/s . Rec. ITU-R F 637-2.
	MOBILE SPACE RESEARCH (passive)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
21,4 - 22	MOBILE BROADCASTING-SATELLITE S5.530 (873F)	Fixed (FIX)	23 GHz Band Low and medium capacity digital fixed links: up to 34 MBit/s. Rec. ITU-R F 637-2 Planned use in accordance with T/R 13-02 Annex A (22-22,6 GHz).
22 - 22,21	FIXED MOBILE except aeronautical mobile		
	S5.149 (874)		
22,21 - 22,5	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)		
	S5.149 (875), S5.532 (876)		
22,5 - 22,55	FIXED MOBILE		Tron.
22,55 - 23	FIXED INTER-SATELLITE MOBILE		
	S5.149 (879)	S LINE CONT.	0003
23 - 23,55	FIXED INTER-SATELLITE MOBILE		23 GHz Band Planned use in accordance with T/R 13-02 Annex A (23-23,6 GHz).
	S5.149 (879)		
23,55 - 23,6	FIXED MOBILE		Government : (23,2 - 23,6 GHz)
		The second second second	

ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	ALL EMMISSIONS IN THIS BAND ARE PROHIBITED	
\$5.340 (880)		
AMATEUR	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
AMATEUR-SATELLITE	Amateur-Satellite (AM-S)	100
	SRD - Short Range Devices (24,00-24,25 Ghz)	CEPT Rec. T/R 01-04
S5.150 (881)	applications (24,00-24,25 GHz)	
RADIOLOCATION Amateur Earth Exploration-Satellite (active)	Radars (RLC) Amateur (AM) (24,05-24,15 GHz) SRD - Short Range Devices	Amateur National Regulations  CEPT Rec.T/R 01-04
\$5.150 (881)	ISM - Industrial, Scientific and Medical applications (24,00-24,25 GHz)	Carlo
FIXED		Planned use in accordance with
FIXED INTER-SATELLITE	10083 542 111 (1003	T/R 13-02 Annex B (24,5-26,5 GHz).
FIXED INTER-SATELLITE	V-2-1003 811 (11)	
FIXED		
	CF RADIO REGULATIONS APPLICABLE IN PORTUGAL  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  S5.340 (880)  AMATEUR  AMATEUR-SATELLITE  S5.150 (881)  RADIOLOCATION Amateur  Earth Exploration-Satellite (active)  S5.150 (881)  FIXED FIXED INTER-SATELLITE	OF RADIO REGULATIONS APPLICABLE IN PORTUGAL  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)  S5.340 (880)  AMATEUR  AMATEUR-SATELLITE  Amateur (AM)  AMATEUR-SATELLITE  Amateur-Satellite (AM-S) SRD - Short Range Devices (24,00-24,25 GHz)  ISM - Industrial, Scientific and Medical applications (24,00-24,25 GHz)  RADIOLOCATION Amateur Earth Exploration-Satellite (active)  RADIOLOCATION (24,05-24,15 GHz)  SRD - Short Range Devices (24,00-24,25 GHz)  FIXED INTER-SATELLITE  FIXED INTER-SATELLITE

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
25,25 - 25,5	FIXED INTER-SATELLITE S5.533 (881A) MOBILE Standard Frequency and Time Signal - Satellite (Earth-to-space)	Special STEERING HOUSE, STEERING STEERING STEERING	Planned use in accordance with T/R 13-02 Annex B ((24,5-26,5 GHz). Goverment
25,5 - 27	FIXED INTER-SATELLITE S5.533 (881A) MOBILE Earth Exploration-Satellite (space-to-		
	Earth) Standard Frequency and Time Signal - Satellite (Earth-to-space)		
27 - 27,5	FIXED INTER-SATELLITE S5.533 (881A) MOBILE		
27,5 - 28,5	FIXED FIXED-SATELLITE(Earth-to-space) S5.539 (882D) MOBILE		Planned use in accordance with T/R 13-02 Annex C (27,5-29,5 GHz).
Marie S Land	S5.538 (882A), S5.540 (882B)		
28,5 - 29,1	FIXED FIXED-SATELLITE (Earth-to-space) S5.539 (882D), S5.523A MOBILE Earth Exploration-Satellite (Earth-to-space) S5.541 (882C)		
	S5.540 (882B)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
29,1 - 29,5	FIXED  FIXED-SATELLITE (Earth-to-space) S5.523C, S5.535A, S5.539 (882D), S5.541A  MOBILE Earth Exploration-Satellite (Earth-to-space) S5.541 (882C)		Planned use in accordance with T/R 13-02 Annex C (27,5-29,5 GHz)
	S5.540 (882B)		
29,5 - 29,9	FIXED-SATELLITE (Earth-to-space) S5.539 (882D) Earth Exploration-Satellite (Earth-to-space) S5.541 (882C) Mobile-satellite (Earth-to-space)		
	S5.540 (882B)		
29,9 - 30	FIXED-SATELLITE (Earth-to-space) S5.539 (882D) MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) S5.541 (882C)		
	\$5.525 (873A), \$5.526 (873B), \$5.527 (873C), \$5.543 (882), \$5.538 (882A), \$5.540 (882B)		
30 - 31	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Standard Frequency and Time Signal - Satellite (space-to-Earth)		Government

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
31- 31,3	FIXED MOBILE Standard Freaquency and Time Signal - Satellite(space-to-Earth) Space Research S5.544 (884)		
	S5.149 (886)		
31,3 - 31,5	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		
31,5 - 31,8	S5.340 (887)  EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile		
	S5.149 (888)		
31,8 - 32	RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)		
32 - 32,3	INTER-SATELLITE RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)		
	\$5.548 (893)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
32,3 - 33	INTER-SATELLITE RADIONAVIGATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	S5.548 (893)		TWEE .
33 - 33,4	RADIONAVIGATION		
33,4 - 34,2	RADIOLOCATION		Government
34,2 - 34,7	RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space)		
34,7 - 35,2	RADIOLOCATION Space Research		
35,2 - 36	METEREOLOGICAL AIDS RADIOLOCATION		
	S5.551 (897)		2500
36 - 37	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)		Government
	S5.149 (898)		
37 - 37,5	FIXED MOBILE SPACE RESEARCH (space-to-Earth)	Fixed (Fix)	CEPT Rec. T/R 12-01

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
37,5 - 38	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	Fixed (Fix)	CEPT Rec. T/R 12-01
38 - 39,5	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Earth Exploration-Satellite (space-to-Earth)		
39,5 - 40	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)		
40 - 40,5	EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth Exploration-Satellite (space-to-Earth)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
40,5 - 42,5	BROADCASTING-SATELLITE BROADCASTING Fixed Mobile		Band reserved to MVDS CEPT Rec. T/R 52-01
42,5 - 43,5	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 (901) MOBILE except aeronautical mobile RADIO ASTRONOMY		(1945) 25.18-1 (1945) (1946)
	S5.149 (900)	BILLIAN AND THE COMPANY	CAR-SE
43,5 - 47	MOBILE S5.553 (902) MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE	HARRIST CHARLES	3-174 1859 3-453
	S5.554 (903)	STLEETING MOTORITY AND	EHAS COVE
47 - 47,2	AMATEUR	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
	AMATEUR-SATELLITE	Amateur-satellite (AM-S)	SERVICE .
47,2 - 50,2	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 (901) MOBILE		GEORGE 1 40 40 40 40 40 40 40 40 40 40 40 40 40
	S5.149, S5.340, S5.555 (904)		
50,2 - 50,4	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	Radiometers - Passive sensors (EXP-S).	

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
50,4 - 51,4	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Mobile-satellite (Earth-to-space)	STATE OF THE STATE	1000 1000 1000 1000
			0.0
51,4 - 54,25	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	Radiometers - Passive sensors (EXP-S).	
	S5.556 (906), S5.340 (907)		
54,25 - 58,2	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 (909) SPACE RESEARCH (passive)		10 - 5 - 1 11 - 5 - 1
58,2 - 59	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)		CAMPA . S.W. 9
	S5.556 (906), S5.340 (907)	mumas	man To San
59 - 64	FIXED INTER-SATELLITE MOBILE S5.558 (909) RADIOLOCATION S5.559 (910)	(consent the 2) 211 Line 2	
		RTT / RTI - Road Transport Telematic / Information System (63 - 64 GHz)	CEPT Rec. T/R 22-04 ERC/DEC/(92)02
	2000	ISM - Industrial, Scientific and Medical applications (61,00-61,50 Ghz)	TRACE CONTROL OF THE PROPERTY
	S5.138 (911)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE		NOTES
64 - 65	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)		N CANAL	* 0
	S5.556 (906), S5.340 (907)			
65 - 66	EARTH EXPLORATION-SATELLITE SPACE RESEARCH Fixed Mobile			
66 - 71	MOBILE S5.553 (902) MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE			
	S5.554 (903)			
71 - 74	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space)			
	S5.149, S5.556 (906)			
74 - 75,5	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)			
			67	

FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
75,5 - 76	AMATEUR	Amateur (AM)	Amateur National Regulations CEPT Rec. T/R 61-01
	AMATEUR-SATELLITE Space Research (space-to-Earth)	Amateur-satellite (AM-S)	
76 - 81	RADIOLOCATION Amateur Amateur -Satellite Space Research (space-to-Earth)	Amateur-satellite (AM-S)	Government
	S5.560 (912)	RTT / RTI - Road Transport Telematic / Information System (76 - 77 GHz)	CEPT Rec. T/R 22-04 (1991) ERC/DEC/(92)02
81 - 84	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) Space Research (space-to-Earth)		
84 - 86	FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE		
	S5.561 (913)		
86 - 92	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		
	\$5.340 (907)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
92 - 95	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION	21/5/10 21/5/10 21/5/10 21/5/10 21/5/10	
	S5.149 (914), S5.556		
95 - 100	MOBILE S5.553 (902) MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation		
	S5.149, S5.554 (903), S5.555 (904)		
100 - 102	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)		
	S5.341 (722)		
102 - 105	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE		
			TANA 100 - 100 - 400
	S5.341 (722)		
105 - 116	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		
	\$5.340 (907), \$5.341 (722)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
116 - 126	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 (909) SPACE RESEARCH (passive)		
		SRD - Short Range Devices (122-123 GHz)  ISM - Industrial, Scientific and Medical applications (122,00-123,00 GHz)	CEPT Rec. T/R 01-04
	S5.138 (916), S5.341 (722)	The state of the s	Maria II
126 - 134	FIXED INTER-SATELLITE MOBILE S5.558 (909) RADIOLOCATION S5.559 (910)		
134 - 142	MOBILE S5.553 (902) MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation		
	S5.149 (918), S5.340 (917), S5.554 (903), S5.555	101 TA	
142 - 144	AMATEUR AMATEUR-SATELLITE	Amateur (AM) Amateur-satellite (AM-S)	Amateur National Regulations CEPT Rec. T/R 61-01
144 - 149	RADIOLOCATION Amateur Amateur-Satellite	Amateur-satellite (AM-S)	Government
	S5.149 (918), S5.555		Dear

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
149 - 150	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF	
150 - 151	EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (passive)		
151 - 156	S5.149 (919), S5.385  FIXED FIXED-SATELLITE (space-to-Earth) MOBILE		
156 - 158	EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE		Future utilization: Passive sensors
158 - 164	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE		

FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
164 - 168	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	(Fall Arms) \$1,000	COLUMN TO THE REAL PROPERTY OF THE PERTY OF
168 - 170	FIXED MOBILE	muama ilistato als	
170 - 174,5	FIXED INTER-SATELLITE MOBILE S5.558 (909)		
	S5.149 (919), S5.385		
174,5 - 176,5	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE S5.558 (909) SPACE RESEARCH (passive)		
	S5.149 (919), S5.385		
176,5 - 182	FIXED INTER-SATELLITE MOBILE S5.558 (909)		
	S5.149 (919), S5.385		
182 - 185	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		
	\$5.340 (921)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
185 - 190	FIXED INTER-SATELLITE MOBILE S5.558 (909)		03(0) 22 (2) 03(0) 03(0) 03(0)
	S5.149 (919), S5.385		
190 - 200	MOBILE S5.553 (902) MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE		
	S5.341 (722), S5.554 (903)		
200 - 202	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)		
	S5.341 (722)		
202 - 217	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE		
	S5.341 (722)		
217 - 231	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		
		5115100	
	S5.340 (907), S5.341 (722)		

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
231 - 235	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation	100	
235 - 238	EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (passive)		
238 - 241	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation		
241 - 248	RADIOLOCATION  Amateur  Amateur -Satellite	Amateur-satellite (AM-S)  SRD - Short Range Devices (244-246 GHz)  ISM - Industrial, Scientific and Medical	Government  CEPT Rec. T/R 01-04
	S5.138 (922)	applications (244,00-246,00 GHz)	
248 - 250	AMATEUR  AMATEUR-SATELLITE	Amateur (AM)  Amateur-satellite (AM-S)	Amateur National Regulations CEPT Rec. T/R 61-01

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FREQUENCY BANDS (GHz)	ALLOCATIONS IN THE ART.S5 OF RADIO REGULATIONS APPLICABLE IN PORTUGAL	NATIONAL USAGE	NOTES
250 - 252	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)		
	S5.149 (923), S5.555		
252 - 265	MOBILE S5.553 (902) MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE		
	S5.149 (923), S5.385 (924), S5.554 (903), S5.555		
265 - 275	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY		
	S5.149 (926)		
275 - 400	(not allocated)		
	S5.565 (927)		

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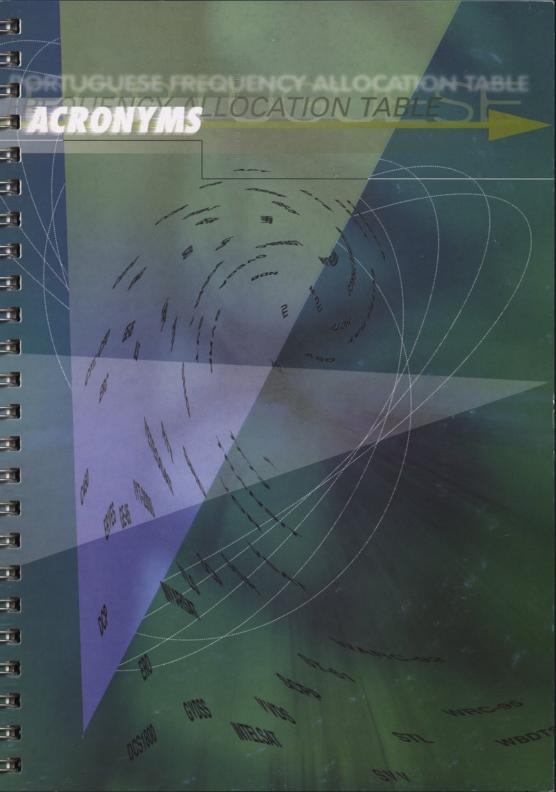
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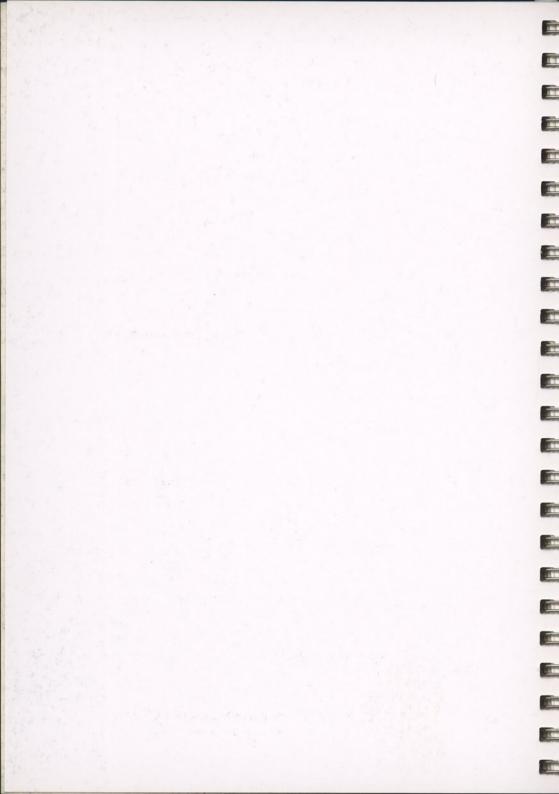
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## 4. ACRONYMS APT Automatic Picture Transmission Citizen Band CB International Radio Consultative Committee CCIR Conference of European Postal and Telecommunications CEPT Administrations CT1; CT0 Cordless Telephones C450 Public Analogue Land Mobile Cellular Communications Data Collection Platform DCP Digital Cellular Telecommunications System in the 1800 MHz band DCS1800 Radionavigation System DECCA DECT Digital European Cordless Telecommunications system 101

DME	- /	UHF Distance Measuring Equipment
DSRR		Digital Short Range Radio
DVB-T		Terrestrial Digital Video Broadcasting system
ENG		Electronic News Gathering
ERC		European Radiocommunications Committee
ERMES		European Radio MEssage System
ERO		European Radiocommunications Office
EUTELSAT	nevson	EUropean TELecommunications SATellite Organisation
EUTELTRACS	-	EUTELsat Transport RAnging and Communnication Services
GE-75	18 F mrt	Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3), Geneva 1975
GE-84	nolinis i	Regional Administrative Radio Conference for the planning of the VHF Sound Broadcasting (Region 1 and part of Region 3), Geneva 1984
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GE-85		Regional Administrative Radio Conference for the pla	nning of the
(Radiobeacons	s)	Maritime Radionavigation Service (Radiobeacons) in the European	
		Maritime Area, Geneva 1985	TARRABIN
3			
GE-85	# - TEE	Regional Administrative Radio Conference for the planning of the MF	
3		Maritime Mobile and Aeronautical Radionavigation Services (Region 1),	
POSITÍ		Geneva 1985	
GMDSS		Global Maritime Distress and Safety System	
GPS	ng/1=1000	Global Positioning System	
1			
GSM		Global System for Mobile Communications	
1			
HDTV		High Definition TeleVision	
1			
HIPERLAN		HIgh PErformance Radio Local Area Network	
		att	
HRPT		High Resolution Picture Transmission	
ICAO		International Civil Aviation Organisation	
•			
ILS	_	Instrument Landing System	
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ITU - International Telecommunication Union  ITU-R - International Telecommunication Union - Radiocommunication Sector  LORAN-C - LOng RAnge Navigation C-system  LPD - Low Power Devices  LRPT - Low Resolution Picture Transmission  METEOSAT - METEOrological SATellite  MLS - Microwave Landing System  MVDS - Multipoint Video Distribution System		
INTELSAT - INternational TELecommunication SATellite Organisation  ISM - Industrial, Scientific and Medical applications  ITU - International Telecommunication Union  ITU-R - International Telecommunication Union - Radiocommunication Sector  LORAN-C - LOng RAnge Navigation C-system  LPD - Low Power Devices  LRPT - Low Resolution Picture Transmission  METEOSAT - METEOrological SATellite  MLS - Microwave Landing System  MVDS - Multipoint Video Distribution System	IMT-2000	
INTELSAT - INternational TELecommunication SATellite Organisation  ISM - Industrial, Scientific and Medical applications  ITU - International Telecommunication Union  ITU-R - International Telecommunication Union - Radiocommunication Sector  LORAN-C - LOng RAnge Navigation C-system  LPD - Low Power Devices  LRPT - Low Resolution Picture Transmission  METEOSAT - METEOrological SATellite  MLS - Microwave Landing System  MVDS - Multipoint Video Distribution System	INMARSAT	international minimizer of termine of garmounter
ITU - International Telecommunication Union  ITU-R - International Telecommunication Union - Radiocommunication Sector  LORAN-C - LOng RAnge Navigation C-system  LPD - Low Power Devices  LRPT - Low Resolution Picture Transmission  METEOSAT - METEOrological SATellite  MLS - Microwave Landing System  MVDS - Multipoint Video Distribution System	INTELSAT	- INternational TELecommunication SATellite Organisation
ITU - International Telecommunication Union  ITU-R - International Telecommunication Union - Radiocommunication Sector  LORAN-C - LOng RAnge Navigation C-system  LPD - Low Power Devices  LRPT - Low Resolution Picture Transmission  METEOSAT - METEOrological SATellite  MLS - Microwave Landing System  MVDS - Multipoint Video Distribution System	ISM	- Industrial, Scientific and Medical applications
LORAN-C - LOng RAnge Navigation C-system  LPD - Low Power Devices  LRPT - Low Resolution Picture Transmission  METEOSAT - METEOrological SATellite  MLS - Microwave Landing System  MVDS - Multipoint Video Distribution System	ITU	- International Telecommunication Union
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Multipoint video distribution System	MLS	- Microwave Landing System
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	NAVTEX	-	International NAVTEX system	Property Francisco
	NDB		Non-Directional radio Beacon	858
	OMEGA	**************************************	Radionavigation system	19-12
	POSAT 1		POrtuguese SATellite 1	SIL
	RTI		Road Transport Information Systems	ТАСАН
	RTT	-	Road Transport Telematics system	TOT
	SCP	-	Public National Radio Paging	
	SCPP		Private Radio Paging	ELM
	SMM		Maritime Mobile Networks	TISMART
3	SMRP		National Trunking Mobile System	NOW
3	SMT		Private Mobile Radio	TARY
	SNG		Satellite News Gathering	
3				105
3	SNG		Satellite News Gathering	105

SRD		Short Range Devices	
SSR		Secondary Surveillance Radar	
ST-61		European VHF/UHF Broadcasting Conference, Stockholm 1961	
STL	-	Studio Transmitter Links	
TACAN		TACtical Air Navigation system	
TCR		Tracking, Control and Ranging system	
T-DAB		Terrestrial Digital Audio Broadcasting system	
TFTS		Terrestrial Flight Telephone System	
TRANSIT	-	Radionavigation-Satellite system	
VOR	-	VHF Omnidirectional Radio range system	
VSAT		Very Small Aperture Terminal	

WARC-92 - World Administrative Radio Conference for Dealing with Frequency

Allocations in Certain Parts of the Spectrum, Malaga-Torremolinos 1992

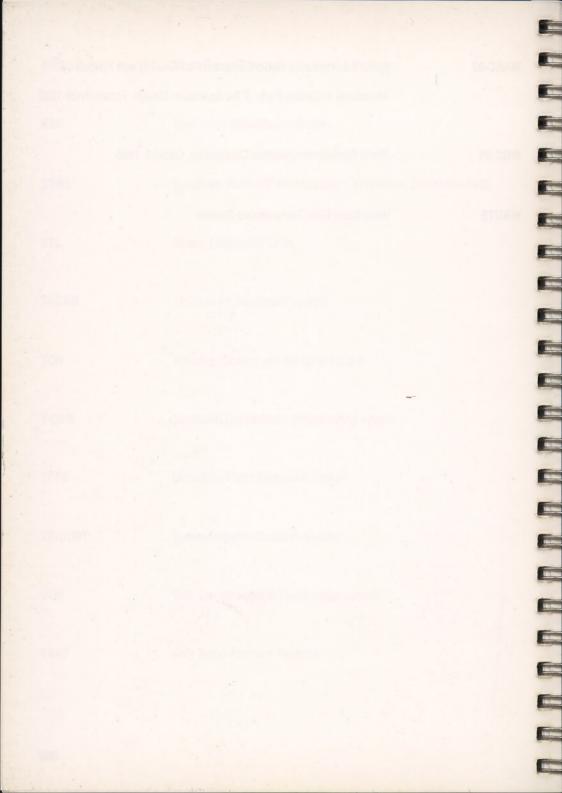
World Radiocommunication Conference, Geneva 1995

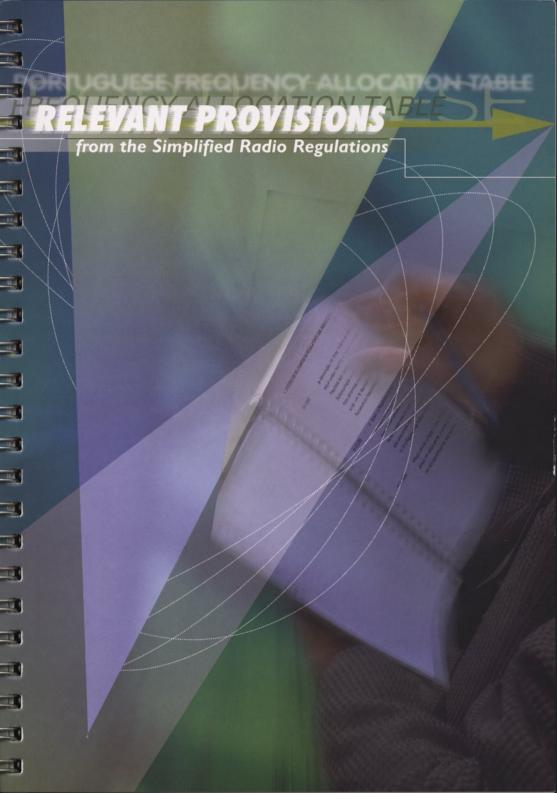
WBDTS - Wide Band Data Transmission System

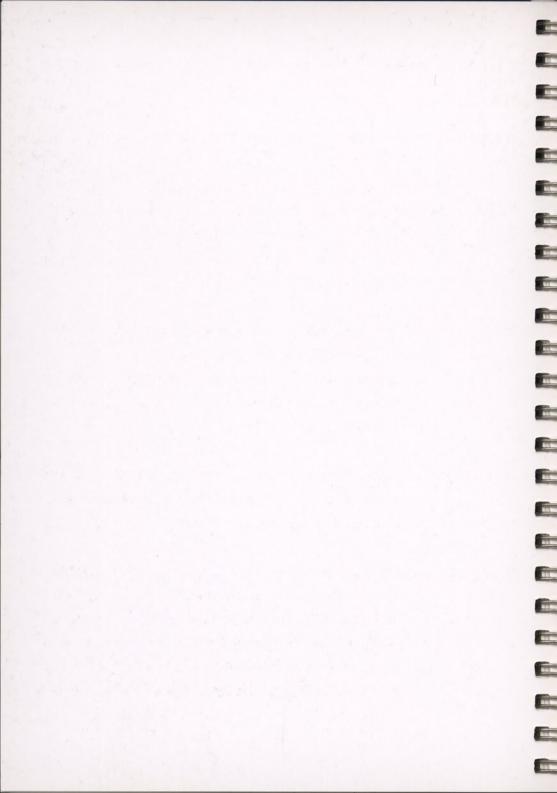
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## 5. RELEVANT PROVISIONS FROM THE SIMPLIFIED RADIO REGULATIONS

- S4.4 (342) Administrations of the Members shall not assign to a station any frequency in derogation of either the Table of Frequency Allocations in this Chapter or the other provisions of these Regulations, except on the express condition that such a station shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the Constitution, the Convention and these Regulations.
- S5.43 (435) (1) Where it is indicated in these Regulations that a service may operate in a specific frequency band subject to not causing harmful interference, this means also that this service cannot claim protection from harmful interference caused by other services to which the band is allocated under Chapter III / SII of these Regulations.
- S5.74 (466A) Additional Allocation: in Region 1, the frequency band 285.3 285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.
- S5.136 (521C) The band 5 900 5 950 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis, as well as to the following services: in Region 1 to the land mobile service on a primary basis, in Region 2 to the mobile except aeronautical mobile (R) service on a primary basis, and in Region 3 to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95).

After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.143 (528A)

The band 7 300 - 7 350 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis and to the land mobile service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.146 (529B)

The bands 9 400 - 9 500 kHz, 11 600 - 11 650 kHz, 12 050 - 12 100 kHz, 15 600 - 15 800 kHz, 17 480 - 17 550 kHz and 18 900 - 19 020 kHz are allocated to the fixed service on a primary basis until 1 April 2007, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in these bands may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service,

administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.148 (531)

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The bands 9 775 - 9 900 kHz, 11 650 - 11 700 kHz, 11 975 - 12 050 kHz, 13 600 - 13 800 kHz, 15 450 - 15 600 kHz, 17 550 - 17 700 kHz and 21 750 - 21 850 kHz are allocated to the fixed service on a primary basis subject to the procedure described in Resolution 8. The use of these bands by the broadcasting service shall be subject to provisions established by the World Administrative Radio Conference for the Planning of the HF Bands Allocated to the Broadcasting Service (see Resolution 508). The provisions of Resolution 512 (HFBC-87) also apply. Within these bands, the date of commencement of operations in the broadcasting service on a planned channel shall not be earlier than the date of completion of satisfactory transfer, according to the procedures described in Resolution 8, of all assignments to stations in the fixed service operating in accordance with the Table and other provisions of the Radio Regulations, which are recorded in the *Master Register* and which may be affected by broadcasting operations on that channel.

S5.151 (534A)

The bands 13 570 - 13 600 kHz and 13 800 - 13 870 kHz are allocated, until 1 April 2007, to the fixed service on a primary basis and to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in these bands may be used by stations in the abovementioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not

caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

- S5.198 (591) Additional allocation: the band 117.975 137 MHz is also allocated to the aeronautical mobile-satellite (R) service on a secondary basis, subject to agreement obtained under Article 14 / No. S9.21.
- S5.218 (608) Additional allocation: the band 148 149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under Article 14 / No. S9.21. The bandwidth of any individual transmission shall not exceed ±25kHz.
- S5.254 (641)

  The bands 235 322 MHz and 335.4 399.9 MHz may be used by the mobile-satellite service, subject to agreement obtained under Article 14 / No. S9.21, on condition that stations in this service do not cause harmful interference to those of other services operating or planned to be operated in accordance with the Table of Frequency Allocations.
- S5.257 (643) The band 267 272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under Article 14 / No. S9.21.
- S5.282 (664) In the bands 435 438 MHz, 1 260 1 270 MHz, 2 400 2 450 MHz, 3 400 3 410 MHz (in Regions 2 and 3 only) and 5 650 5 670 MHz, the amateur-satellite service may operate subject to not causing harmful

interference to other services operating in accordance with the Table (see No. S5.43). Administrations authorizing such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. 2741 / S25.11. The use of the bands 1 260 - 1 270 MHz and 5 650 - 5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.

S5.287 (669)

In the maritime mobile service, the frequencies 457.525 MHz, 457.550 MHz, 457.575 MHz, 467.525 MHz, 467.550 MHz and 467.575 MHz may be used by on-board communication stations. The use of these frequencies in territorial waters may be subject to the national regulations of the administration concerned. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174.

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S5.347 (722B)

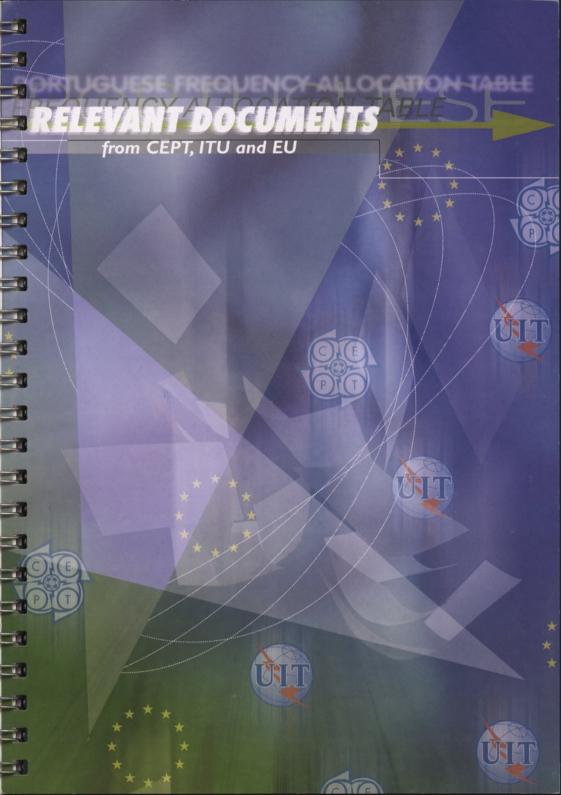
Different category of service: in Bangladesh, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Colombia, Cuba, Denmark, Egypt, Spain, Greece, Hungary, Ireland, Italy, Jordan, Kenya, The Former Yugoslav Republic of Macedonia, Malawi, Mozambique, Panama, Portugal, Sri Lanka, Sweden, Swaziland, Yemen, Yugoslavia and Zimbabwe, the allocation of the band 1 452 - 1 492 MHz to the broadcasting-satellite service and the broadcasting service is on a secondary basis until 1 April 2007.

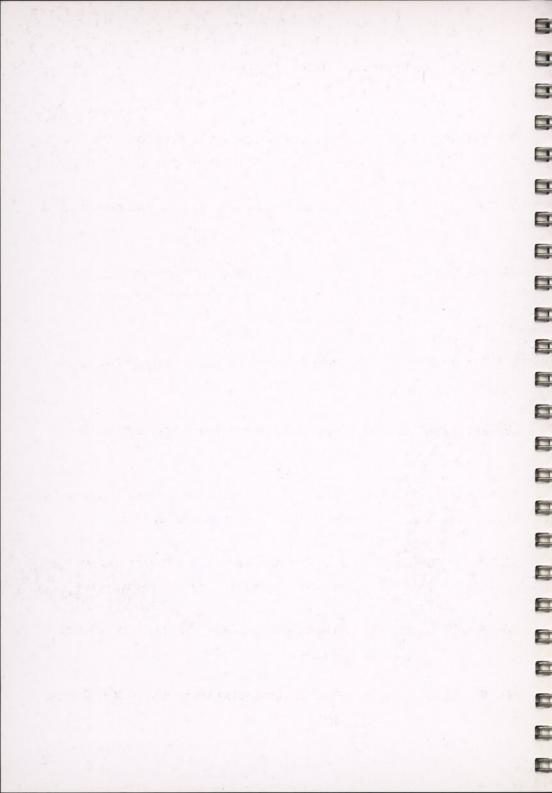
S5.414 (760A) - The allocation of the frequency band 2 500 - 2 520 MHz to the mobile-satellite service (space-to-Earth) shall be effective on 1 January 2005 and is subject to coordination under Resolution 46 (Rev.WRC-95) / No. S9.11A.

Art. S1 (Art. 1)	gil •den	Terms and Definitions.
Art. S5 (Art. 8)		Frequency Allocations.
Art. S9 (Art. 11)		Procedure for Effecting Coordination with or Obtaining Agreement of Other Administrations.
Art. S12A (Art. 17)	67.525 (487.57	Planning and Procedures for the Bands Allocated Exclusively to the Broadcasting Service Between 5 950 kHz and 26 100 kHz.
Art. S31 (Art. N38)		Frequencies for the Global Maritime Distress and Safety System (GMDSS).
Ap. S13 (Chapter IX, R	- R55, RR	Distress and Safety Communications (Non-GMDSS).
Ap. S15 (RR N38)	ine en ed iso	Frequencies for Distress and Safety Communications for the GMDSS.
Ap. S17 (Aps. 16, 31 to	- 35)	Frequencies and Channelling Arrangements in the High-Frequency Bands for the Maritime Mobile Service.
Ap. S18 (Ap. 18)	i Shore	Table of Transmitting Frequencies in the VHF Maritime Mobile Band.
Ap. S25 (Ap. 25)	SHELL OF	Provisions and associated Frequency Allotment Plan for Coast Radiotelephone Stations Operating in the Exclusive Maritime Mobile Bands Between 4 000 kHz and 27 500 kHz.
Ap. S26 (Ap. 26)	-	Provisions and Associated Frequency Allotment Plan for the Aeronautical Mobile (OR) Service in the Bands Allocated Exclusively to that Service Between 3 025 kHz and 18 030 kHz.

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	Ap. S27	-	Frequency Allotment Plan for the Aeronautical Mobile (R) Service and
	(Ap. 27 Aer. 2)		Related Information Between 2 850 kHz and 22 000 kHz.
13			
	Ap. S30		Provisions for All Services and Associated Plans for the Broadcasting-
	(Ap. 30)		Satellite Service in the Frequency Bands 11.7 - 12.2 GHz (in Region 3)
			11.7 - 12.5 GHz (in Region 1) and 12.2 - 12.7 GHz (in Region 2).
	A= 000A		Drawinians and Accepted Diana for Fooder Links for the Producating
	Ap. S30A (Ap. 30A)	•	Provisions and Associated Plans for Feeder Links for the Broadcasting- Satellite Service (11.7 - 12.5 GHz in Region 1, 12.2 - 12.7 GHz in Region
	(Ap. 00A)		2 and 11.7 - 12.2 GHz in Region 3) in the Frequency Bands 14.5 - 14.8 GHz
			and 17.3 - 18.1 GHz in Regions 1 and 3, and 17.3 - 17.8 GHz in Region 2.
	Ap. S30B	-	Provisions and Associated Plan for the Fixed-Satellite Service in the
	(Ap. 30B)		Frequency Bands 4 500 - 4 800 MHz, 6 725 - 7 025 MHz, 10.70 - 10.95
1			GHz, 11.20 - 11.45 GHz and 12.75 - 13.25 GHz.
	RES 46		Interim Procedures for the Coordination and Notification of Frequency
1	(Rev.WRC-95)		Assignments of Satellite Networks in Certain Space Services and the Other
			Services to Which Certain Bands are Allocated.
-			
3	RES 512	-	Operation of HFBC Transmitters in the Extended Bands Above 10 MHz.
	(HFBC-87)		
	DE0 704		Deletion to the Helding of a Degianal Administrative Dedic Confessors to
	RES 704 (Mob-83)		Relating to the Holding of a Regional Administrative Radio Conference to  Prepare Frequency Assignment Plans for the Maritime Mobile Service in the
	(14100-03)		Bands Between 435 kHz and 526.5 kHz and in Parts of the Band
			between 1 606.5 kHz and 3 400 kHz in Region 1 and to Plan for the
			Aeronautical Radionavigation Service in the Band 415 - 435 kHz in Region 1.
			117

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## 6. RELEVANT DOCUMENTS FROM CEPT, ITU AND EU

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**CEPT Rec. T/R 20-04** 

CEPT Rec. T/R 20-06

CEPT Rec. T/R 01-04	- 19-180	Use of Low Power Devices (LPD) using integral antennas and
		operating in harmonized frequency bands.

**CEPT Rec. T/R 10-01** Wide band data transmission systems using spread-spectrum technology in the 2.5 GHz band.

**CEPT Rec. T/R 12-01** Harmonized radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 37-39.5 GHz.

CEPT Rec. T/R 13-01 Preferred Channel Arrangements for Fixed Services in the Range 1 - 3 GHz.

**CEPT Rec. T/R 13-02** Preferred Channel Arrangements for Fixed Services in the Range 22 - 29,5 GHz.

**CEPT Rec. T/R 20-03** Low-power Telecommand and Telemetry equipment operating on collective frequencies in ISM bands.

Low-power Narrow-Band Telecommand and Telemetry

equipment for use outside the ISM frequency bands.

Transmitters and receivers for low-power Cordless Microphone systems.

CEPT Rec. T/R 20-08 Frequency planning and frequency coordination for the GSM system.

CEPT Rec. T/R 20-09	PR 27 radio equipment intended to provide short range voice radiocommunication in the 27 MHz band.
CEPT Rec. T/R 20-10	Digital Short-Range Radio (DSRR) equipment intended to provide short-range voice and/or data radiocommunication in the frequency bands 933-935/888-890 MHz.
CEPT Rec. T/R 21-09	EUTELTRACS service with omniTRACS satellite terminals in Europe.
CEPT Rec. T/R 22-02	Frequency band to be designated for the European digital cordless telecommunication system (DECT).
CEPT Rec. T/R 22-04	Harmonisation of frequency bands for road transport information systems (RTI).
CEPT Rec. T/R 22-06 -	Harmonised radio frequency bands for High Performance Radio Local Area Networks (HIPERLANs) in the 5 GHz and 17 GHz frequency range.
CEPT Rec. T/R 22-07	Frequency bands, planning and coordination for systems using the DCS 1800 standards.
CEPT Rec. T/R 24-03 -	Radio characteristics of cordless telephones.
CEPT Rec. T/R 25-07	Frequency coordination for the European Radio Message System (ERMES).
CEPT Rec. T/R 52-01	Designation of a harmonized frequency band for multipoint video distribution systems in Europe.
100	

	CEPT Rec. T/R 60-01	- Low-power radiolocation equipment for detecting movement and for alert.
1	CEPT Rec. T/R 61-01	- CEPT Radio Amateur Licence.
	CEPT Rec. T/R 75-02	- Use of frequencies in the band 862-960 MHz by the mobile except aeronautical mobile service.
	ERC/DEC/(92)01	- ERC Decision of 22 October 1992 on the frequency bands to be designated for the coordinated introduction of the Terrestrial Flight Telecommunications System.
	ERC/DEC/(92)02	- ERC Decision of 22 October 1992 on the frequency bands to be designated for the coordinated introduction of the Road Transport Telematic Systems.
	ERC/DEC/94)01	- ERC Decision of 24 October 1994 on the frequency bands to be designated for the coordinated introduction of the GSM Digital pan-European communications System.
	ERC/DEC/(94)02	- ERC Decision of 24 October 1994 on the frequency band to be designated for the coordinated introduction of the European Radio Messaging System (ERMES).
	ERC/DEC/(94)03	- ERC Decision of 24 October 1994 on the frequency band to be designated for the coordinated introduction of the Digital European Cordless Telecommunications System.
3	ERC/DEC/(95)03	- ERC Decision of 1 December 1995 on the frequency bands to be designated for the introduction of DCS 1800.
9		123

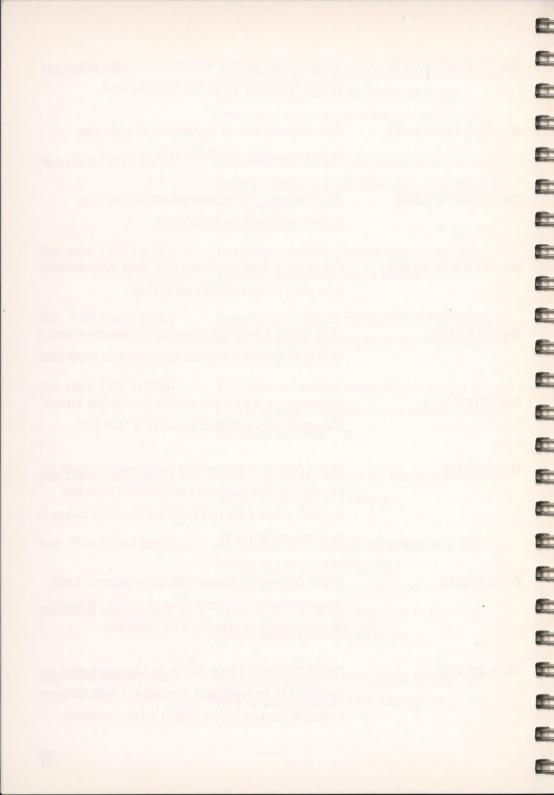
ERC/DEC/(96)03	10 <b>-</b> 1100	ERC Decision of 7 March 1996 on the harmonised frequency band to be designated for the introduction of High
		Performance Radio Local Area Networks (HIPERLANs).
Rec. ITU-R F.283-5 (06/90)	100 bin	Radio-frequency channel arrangements for low and medium capacity analogue or digital radio-relay systems operating in the 2 GHz band.
Rec. ITU-R F.382-6 (01/91)	Loten	Radio-frequency channel arrangements for radio-relay systems operating in the 2 and 4 GHz bands.
Rec. ITU-R F.383-5 (03/92)	Seel	Radio-frequency channel arrangements for high capacity radio-relay systems operating in the lower 6 GHz band.
Rec. ITU-R F.384-6 (10/95)	beet	Radio-frequency channel arrangements for medium and high capacity analogue or digital radio-relay systems operating in the upper 6 GHz band.
Rec. ITU-R F.385-6 (11/93)		Radio-frequency channel arrangements for radio-relay systems operating in the 7 GHz band.
Rec. ITU-R F.386-4 (03/92)		Radio-frequency channel arrangements for radio-relay systems operating in the 8 GHz band.
Rec. ITU-R F.387-7 (10/95)	NOTE:	Radio-frequency channel arrangements for radio-relay systems operating in the 11 GHz band.

Radio-frequency channel arrangements for radio-relay

systems operating in the 13 GHz frequency band.

Rec. ITU-R F.497-5 (10/95)

0			
3	Rec. ITU-R F.595-4 (10/95)	-	Radio-frequency channel arrangements for radio-relay systems operating in the 18 GHz frequency band.
	Rec. ITU-R F.637-2 (11/93)	-	Radio-frequency channel arrangements for radio-relay systems operating in the 23 GHz band.
	Rec. ITU-R F.747 (03/92)	-	Radio-frequency channel arrangements for radio-relay systems operating in the 10 GHz band.
	Rec. ITU-R M.1174 (10/95)	-	Characteristics of equipment used for on-board communications in the bands between 450 MHz and 470 MHz.
	Rep. ITU-R F.379-5	-	Characteristics of simple radio-relay equipment operating in bands 8 and 9 for the provision of telephone trunk connections in rural areas.
	Rep. ITU-R F.607-4	-	Radio-frequency channel arrangements for radio-relay systems in the ranges 10.5 to 10.68 GHz and 11.7 to 15.35 GHz.
	Dir. 87/372/EEC		Council Directive of 25 June 1987 on the frequency bands to be reserved for the coordinated introduction of public pan- European cellular digital land-based mobile communications in the European Community.
	Dir. 90/544/EEC		Council Directive of 9 October 1990 on the frequency bands designated for the coordinated introduction of pan-European land-based public radio paging in the Community.
	Dir. 91/287/EEC		Council Directive of 3 June 1991 on the frequency band to be designated for the coordinated introduction of digital European cordless telecommunications (DECT) into the Community.
			125





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## Edition



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