Electronic Communications Committee (ECC) within the European Conference of Postal and Telecommunications Administrations (CEPT)

THE EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND APPLICATIONS IN THE FREQUENCY RANGE 9 kHz to 3000 GHz (ECA TABLE)

Amended Lisboa 02 - Dublin 03 - Kusadasi 04 - Copenhagen 04 - Nice 07 - Baku 08 - Kyiv 09 - Lille 11

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The European Table of Frequency Allocations and Applications in the frequency range 9 kHz to 3000 GHz (ECA Table)

1 INTRODUCTION

Key objectives of the ECC, as defined in its Terms of Reference, are, among others, to develop European common positions and proposals for use in the framework of international and regional bodies, and to forward plan and harmonise within Europe the efficient use of the radio spectrum and satellite orbits so as to satisfy the requirements of users and industry.

In order to achieve these objectives CEPT endorsed in 2002 the principle of adopting a harmonised European Table of Frequency Allocations and Applications to establish a strategic framework for the utilisation of the radio spectrum in Europe. After a detailed review in 2010 of the key principles defining the ECA Table, WG FM concluded at its meeting in February 2011 that the Table should essentially deliver information on the current situation, although some future oriented information could still be maintained for some specific frequency bands (e.g. if a cut-off date needs to be defined, ...).

The task of developing and maintaining this Table is the responsibility of the Working Group Frequency Management (WG FM). Much of this work is carried out by the European Communications Office (ECO) on behalf of WG FM and a fully searchable electronic version of the ECA can be found at: http://apps.ero.dk/ECA/.

The factual information of the ECA Table (Attachment of this Report) will typically be updated by the ECO three times a year, e. g. after every ECC meeting or after the publication of harmonised standards in the Official Journal of the European Union (OJEU). These amendments will not require a public consultation. A fundamental update on the ERC Report 25 and its Attachment will be carried out at least after every WRC and will undergo a CEPT wide public consultation. The conclusions on the update process were drawn by WG FM in February 2011 (71st meeting).

2 EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND APPLICATIONS

A European Table of Frequency Allocations and Applications for the frequency range 9 kHz to 3000 GHz (ECA Table) is provided in the Attachment of this Report. CEPT member countries are expected to implement as many parts of the ECA Table as they are able. The Table should be used as a source document by CEPT member countries for the development of Decisions, Recommendations, and European Common Proposals (ECPs) for future Radiocommunication Conferences of the ITU and as a reference document when developing national frequency allocation tables and national frequency usage plans.

3 ITU RADIOCOMMUNICATION CONFERENCES

Due account has been taken of the relevant decisions of the ITU World Radiocommunication Conferences WARC-92, WRC-95, WRC-97, WRC-2000, WRC-03 and WRC-07 as well as the Regional Radiocommunication Conference Geneva-06 and of strategies developed by other international fora concerning, in particular, the introduction and development of mobile and mobile-satellite services.

4 ECC/ERC DECISIONS AND RECOMMENDATIONS

During the preparation of the ECA Table account was taken of work already completed by CEPT in respect of systems expected to operate in this frequency range. The ECC/ERC Decisions and ECC/ERC Recommendations, which are relevant to frequency management issues and which have been incorporated into the Table are listed in Annex 3 of the Attachment.

Understanding of the term "to designate"

ECC/ERC Decisions that "designate" a frequency band for a harmonised application are intended to foster the deployment of an application to meet a market demand in a harmonised manner throughout CEPT. Members signing the Decision commit themselves to make spectrum available for this harmonised application which includes assessing when and where there is a demand for the harmonised service/application and deciding whether that demand is great enough to exclude other services and applications from the harmonised band.

Thus, such Decisions do not necessarily preclude authorising other uses and applications in the same band, or part(s) thereof on the following conditions:

- an underlay application (i.e., able to share co-frequency, co-coverage with the application for which the band was designated) may be implemented, preferably subject to prior harmonisation at CEPT level, without affecting the application for which the band is designated, i.e., this underlay system is designed in such a way that they are not causing interference to the application for which the band is designated nor request protection against interference;
- 2. the deployment of the application for which a band is designated may be constrained geographically in a reasonable extent in order to protect stations of another service/application using the same band;
- 3. there may be a lack of market demand for the application for which the band is designated in some cases:
 - a) absence of demand for deployment in certain geographical areas, thus enabling geographical sharing with other applications;
 - b) transition period until equipment are available for the deployment of the harmonised application, so that other applications may be introduced or retained for this temporary period;
 - c) in cases where market demand does not fully materialise for the harmonised application, all or parts of the band could be used for alternative applications, having due regard to spectrum use consideration (channelling, guard bands, protection of the harmonised application).

In all these cases, Members retain the commitment to make their best efforts to make the frequency band available for the application for which the band is designated in due time where the market demand materialises.

Underlay regulations

Underlay regulations by contrast do not "designate" a specific frequency band for a certain usage but rather define conditions of use of the radio spectrum across a relatively wide frequency range. The intentional emissions of underlay applications are not always limited to the boundaries of a specific frequency band, which implies that in some cases underlay regulations cannot be referenced conveniently in a frequency allocation table.

Regulations developed within CEPT for applications using Ultra-Wideband (UWB) technology typically fit within this regulatory approach.

For example, the following regulations available at the date of publication of this Report can be described as "underlay regulations":

- ECC/DEC/(06)04 amended 6 July 07 on generic UWB
- ECC/DEC/(06)08 on GPR/WPR imaging systems
- ECC/DEC/(06)12 amended 31 October 2008 on UWB mitigation techniques
- ECC/DEC/(07)01 on Material Sensing devices

Detailed references to these regulations can be found in Annex 3 of the Attachment (ECA Table).

5 MILITARY REQUIREMENTS

Liaison with military authorities from CEPT countries has also been necessary in view of their use of, and requirements in, this frequency range. Although no single representative military body exists for all CEPT member countries, the North Atlantic Treaty Organisation (NATO) has a Joint Civil/Military Frequency Agreement (NJFA) which was felt to be a useful basis from which to develop a view of military frequency requirements. A forum that allows both civil and military frequency managers from all CEPT countries to meet has also been established by CEPT. This forum, the civil military meeting, considers requirements for harmonised military usage of spectrum to meet the needs of both NATO and non-NATO CEPT countries and makes proposals to WGFM.

Military requirements vary both between activities and countries. In some countries national requirements may be more than the harmonised band, in other countries for the time being there may be no national requirements in a band specifically harmonised for military use.

In general, the harmonised military bands should provide *a common military frequency resource* in order to allow systems to operate in common border areas, facilitate common exercises and Peace Keeping Operations (PKO), include the core frequency assets for day-to-day training, exercise, combat readiness and deployment and support Electronic Countermeasures (ECM) training.

Any reorganisation of spectrum utilisation should aim at a provision of a common military frequency resource in accordance with the ECA Table.

6 THE EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND APPLICATIONS IN THE FREQUENCY RANGE 9 kHz to 3000 GHz (ECA TABLE)

The ECA Table and its five Annexes are provided in the Attachment.

Annex 1: European footnotes included in the ECA Table

Annex 2: ITU Radio Regulations footnotes for Region 1

Annex 3: Relevant ECC/ERC Decisions and Recommendations

Annex 4: European Standards included in the ECA Table

Annex 5: List of abbreviations used in the ECA Table

Explanatory notes to the ECA Table

The heading of the ECA Table in the Attachment includes a number of columns, with the following contents:

Column 1: RR Region 1 Allocation and RR footnotes applicable to CEPT.

Indicates the frequency band referred to in that row of the ECA Table and current ITU RR Article 5 allocations and footnotes which correspond to ITU Region 1.

See Annex 2 for description of the RR Article 5 footnotes included in the ECA Table.

It should be noted that, as shown in the ECA Table, the band 275-3000 GHz is not currently allocated and that work is on-going within ITU-R in preparation for agenda item 1.6 of WRC-2012, the purpose of which is to extend the upper limit from 1000 GHz to 3000 GHz.

Column 2: European Common Allocation

Contains in each frequency band:

- Allocations of major use or major interest in CEPT member countries.
- RR Article 5 footnotes affecting a major number of CEPT countries. RR Article 5 footnotes with general provisions applicable to CEPT countries are only included in the European Table if 10 or more CEPT countries are included in the footnote.
- EU footnotes relevant to the European allocation, see Annex 1 of the Attachment.

Column 3: ECC/ERC harmonisation measure

This column contains information about ECC/ERC Decisions and Recommendations relevant to the particular radio application. The ECC/ERC documents are described in Annex 3 of the Attachment.

Column 4: Application

A radio application will be added to the ECA Table as an "Application" if:

a) An ECC/ERC Decision, EC Decision or ECC/ERC Recommendation exists which harmonises or designates frequency bands,

Of

b) At least 10 CEPT administrations have made available the relevant frequency band for a radio application according to EFIS,

or

c) WG FM has decided to do so (based on other aspects).

A future reduction of the number of administrations (below 10) will not automatically generate a withdrawal of a radio application from the ECA Table.

There is no priority implied by the order in which the radio applications are listed.

Column 5: European footnotes

This column contains European footnotes (EU) relevant to the particular radio application.

Column 6: Standard

This column contains information about the relevant European standards - see Annex 4.

Column 7: Notes

This column may be used in order to reflectany other relevant information, such as the nature of use of a radio application or decisions which might affect the future use of the band.

In respect of **defence systems** two terms are used with the associated definitions:

- 1) <u>Common military tuning range</u>: A common military tuning range is normally a recommended tuning range for radio equipment operating across harmonised military bands. Such a tuning range forms the basis for planning of future military equipment procurement.
- 2) <u>Harmonised military band</u>: A frequency band which is in general military use in Europe and identified for military utilisation in the European Common Allocation Table (ECA Table). Such a frequency band forms a basis for military use and planning. The band can be shared between civil and military users according to national requirements and legislation.

Attachment (ECA Table) with 5 Annexes

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
9 - 14 kHz						
RADIONAVIGATION	RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
	EU2		ISM			
14 - 19.95 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE 5.57	MARITIME MOBILE 5.57		Defence systems			
5.55 5.56	5.56 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
19.95 - 20.05 kHz						
STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)					
20.05 - 70 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE 5.57	MARITIME MOBILE 5.57		Defence systems			
5.56 5.58	5.56 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
70 - 72 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
	EU2					
72 - 84 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	MARITIME MOBILE 5.57 RADIONAVIGATION 5.60 5.56 EU2		DCF time signal			77.5 kHz
5.56			Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
84 - 86 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
			Defence systems			
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
86 - 90 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE 5.57 RADIONAVIGATION	MARITIME MOBILE 5.57 RADIONAVIGATION		Defence systems			
5.56	5.56 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
90 - 110 kHz						
RADIONAVIGATION 5.62	RADIONAVIGATION 5.62	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
Fixed	Fixed		Defence systems			
5.64	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
110 - 112 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE RADIONAVIGATION	MARITIME MOBILE RADIONAVIGATION		Defence systems			
5.64	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
112 - 115 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
			Defence systems			
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
115 - 117.6 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
Fixed Maritime mobile	Fixed Maritime mobile		Defence systems			
5.64 5.66	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
117.6 - 126 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE	MARITIME MOBILE					
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60		Defence systems			
5.64	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
126 - 129 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
			Defence systems			
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
129 - 130 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE RADIONAVIGATION 5.60	MARITIME MOBILE RADIONAVIGATION 5.60		Defence systems			
5.64	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
130 - 135.7 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE	MARITIME MOBILE		Defence systems			
5.64 5.67	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
135.7 - 137.8 kHz						
Amateur 5.67A	Amateur 5.67A	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
FIXED	FIXED		Amateur		EN 301 783	Within the band 135.7-137.8 kHz
MARITIME MOBILE 5.67B	MARITIME MOBILE 5.67B		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
137.8 - 148.5 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME MOBILE	MARITIME MOBILE		Defence systems			
5.64 5.67	5.64 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 9-148.5 kHz
148.5 - 255 kHz						
BROADCASTING	BROADCASTING	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
5.68			Broadcasting		EN 302 017 EN 302 245	Frequency Assignment plan GE75. Digital systems to be introduced
5.69 5.70		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
255 - 283.5 kHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
BROADCASTING	BROADCASTING		Beacons (aeronautical)			Frequency Assignment plan GE85
5.70 5.71			Broadcasting		EN 302 017 EN 302 245	Frequency Assignment plan GE75. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
283.5 - 315 kHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 195	Within the band 9-315 kHz
MARITIME RADIONAVIGATION (radiobeacons) 5.73	MARITIME RADIONAVIGATION (radiobeacons) 5.73		Beacons (aeronautical)			Frequency Assignment plan GE85
5.72 5.74	5.74 EU2		Beacons (maritime)			Frequency Assignment plan GE85
5.74		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
315 - 325 kHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
Maritime radionavigation (radiobeacons) 5.73	Maritime radionavigation (radiobeacons) 5.73		Beacons (aeronautical)			Frequency Assignment plan GE85
5.72 5.75	EU2		Beacons (maritime)			Frequency Assignment plan GE85. IALA plan to allow differential GPS
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
325 - 405 kHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
TABIONATION			Beacons (aeronautical)			Frequency Assignment plan GE85
5.72	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
405 - 415 kHz						
RADIONAVIGATION 5.76	RADIONAVIGATION 5.76	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
			Beacons (aeronautical)			Frequency Assignment plan GE85
5.72	EU2		Beacons (maritime)			Frequency Assignment plan GE85. IALA - plan to allow differential GPS
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz
415 - 435 kHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
MARITIME MOBILE 5.79	MARITIME MOBILE 5.79		Beacons (aeronautical)			Frequency Assignment plan GE85
5.72	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz
			Maritime			Frequency Assignment plan GE85
435 - 495 kHz						
MARITIME MOBILE 5.79 5.79A	MARITIME MOBILE 5.79 5.79A	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
Aeronautical radionavigation 5.72	Aeronautical radionavigation 5.82 EU2	ERC/REC 70-03	Detection of avalanche victims		EN 300 718	457 kHz
5.82	3.02 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz
			Maritime			Frequency Assignment plan GE85
			Navtex transmission national language		EN 300 065	490 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
495 - 505 kHz						
MOBILE 5.82A	MOBILE 5.82A	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
5.82B	5.82B	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz
505 - 526.5 kHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
MARITIME MOBILE 5.79 5.79A 5.84	MARITIME MOBILE 5.79 5.79A 5.84		Beacons (aeronautical)			Frequency Assignment plan GE85
5.72	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz
			Maritime		EN 300 373	Frequency Assignment plan GE85
			Navtex transmission International		EN 300 065	518 kHz
526.5 - 1606.5 kHz						
BROADCASTING	BROADCASTING	ERC/REC 70-03	Active medical implants		EN 302 536	Within the band 315-600 kHz
			Broadcasting		EN 302 017	Frequency Assignment plan GE75.
5.87					EN 302 245	Digital systems to be introduced
5.87A		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz. For RFID only within the band 400- 600 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1606.5 - 1625 kHz						
FIXED	FIXED		Defence systems			
LAND MOBILE MARITIME MOBILE 5.90	LAND MOBILE MARITIME MOBILE 5.90	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	Radiolocation		Maritime		EN 300 373	Frequency Assignment plan GE85
5.92			Radiodetermination applications			
1625 - 1635 kHz						
RADIOLOCATION	RADIOLOCATION	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.93	5.93		Radiodetermination applications			
1635 - 1800 kHz						
FIXED	FIXED		Defence systems			
LAND MOBILE MARITIME MOBILE 5.90	LAND MOBILE MARITIME MOBILE 5.90	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.92	5.96		Maritime		EN 300 373	Frequency Assignment plan GE85
5.96			Radiodetermination applications			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1800 - 1810 kHz						
RADIOLOCATION	RADIOLOCATION	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.93	5.93		Radiodetermination applications			
1810 - 1850 kHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.100	5.98 EU2					
5.98	5.100					
5.99						
1850 - 2000 kHz						
FIXED	FIXED		Amateur		EN 301 783	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		Defence systems			
5.103	5.96	EDC/DEC 70.03			EN 300 330	Within the bond 149 E kHz 20 MHz
5.92	5.103	ERC/REC 70-03	Inductive applications			Within the band 148.5 kHz - 30 MHz
5.96			Maritime		EN 300 373	
			Radiodetermination			

applications

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2000 - 2025 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.103 5.92	5.103		Maritime		EN 300 373	
			Radiodetermination applications			
2025 - 2045 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
Meteorological aids 5.104			Maritime		EN 300 373	
5.103	5.103		wanume 		EIN 300 373	
5.92	5.104		Oceanographic meteorological buoys			
			Radiodetermination applications			
2045 - 2160 kHz						
FIXED	FIXED		Defence systems			
LAND MOBILE MARITIME MOBILE	LAND MOBILE MARITIME MOBILE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.92	5.92		Maritime		EN 300 373	Frequency Assignment plan GE85

ECC/ERC

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures		European footnotes	Standard	Notes
2160 - 2170 kHz						
RADIOLOCATION	RADIOLOCATION	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
TO BIOLOGATION	TO ESTATION					
5.107	5.93		Radiodetermination applications			
5.107	5.93					
2170 - 2173.5 kHz						
MARITIME MOBILE	MARITIME MOBILE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Frequency Assignment plan GE85
	EU2					
2173.5 - 2190.5 kHz						
MOBILE (distress and calling)	MOBILE (distress and calling)		DSC for distress and calling		EN 300 373	2187.5 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.108 5.109	5.108 EU2 5.109		Radiotelephony distress		EN 300 373	2182 kHz
5.110	5.110		and calling			
5.111	5.111		Telex distress traffic		EN 300 373	2174.5 kHz
2190.5 - 2194 kHz						
MARITIME MOBILE	MARITIME MOBILE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	

EU2

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2194 - 2300 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.103	5.103		Maritime		EN 300 373	
5.112						
5.92			Radiodetermination applications			
2300 - 2498 kHz						
BROADCASTING 5.113	FIXED		Defence systems			
FIXED	MOBILE except aeronautical	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
MOBILE except aeronautical mobile (R)	mobile (R)					Within the band 146.5 KHz - 30 WHz
5.103	5.103 EU2		Maritime		EN 300 373	
2498 - 2501 kHz						
STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
2501 - 2502 kHz						
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
Space research	Space research					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2502 - 2625 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.103	5.103 EU2		Radiodetermination			
5.114	5.92		applications			
5.92						
2625 - 2650 kHz						
MARITIME MOBILE	MARITIME MOBILE		Defence systems			
MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.92	5.92 EU2		Maritime		EN 300 373	
2650 - 2850 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.103	5.103		Radiodetermination			
5.92	5.92		applications			
2850 - 3025 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.111 5.115	5.111 5.115		Radiotelephony distress and safety traffic		EN 300 373	3023 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
3025 - 3155 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
3155 - 3200 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R) 5.116	MOBILE except aeronautical mobile (R) 5.116 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 3155-3400 kHz; and within the band 148.5 kHz - 30 MHz
5.117	3.110 202	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	
3200 - 3230 kHz						
BROADCASTING 5.113	FIXED		Defence systems			
FIXED MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 3155-3400 kHz; and within the band 148.5 kHz - 30 MHz
5.116	5.116 EU2		Maritime		EN 300 373	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
3230 - 3400 kHz						
BROADCASTING 5.113	FIXED		Defence systems			
FIXED MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 3155-3400 kHz; and within the band 148.5 kHz - 30 MHz
5.116 5.118	5.116 EU2		Maritime		EN 300 373	
3400 - 3500 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
3500 - 3800 kHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile		Defence systems			
5.92	5.92 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	
3800 - 3900 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
FIXED LAND MOBILE	FIXED LAND MOBILE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
3900 - 3950 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)		Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.123						
3950 - 4000 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 017	Digital systems to be introduced
FIXED	FIXED				EN 302 245	
	EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
4000 - 4063 kHz						
FIXED	FIXED	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
MARITIME MOBILE 5.127	MARITIME MOBILE 5.127		Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
5.126	EU2					1.1

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
4063 - 4438 kHz						
MARITIME MOBILE 5.79A 5.109 5.110	MARITIME MOBILE 5.79A 5.109 5.110		DSC calling		EN 300 373	Ship stations 4208, 4208.5, 4209 kHz Coast stations 4219.5, 4220, 4220.5 kHz
5.128	5.130 EU2 5.131		DSC distress traffic		EN 300 373	4207.5 kHz
5.130 5.131	5.132	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.132			Maritime		EN 300 373	Appendix 17 channelling plan. Appendix 25 allotment plan
			Maritime Safety Information	n	EN 300 373	4210 kHz
			Navtex services		EN 300 065	4209.5 kHz
			Radiotelephony distress and safety traffic		EN 300 373	4125 kHz
		ERC/REC 70-03	Railway applications		EN 302 608	4234 kHz
			Telex distress traffic		EN 300 373	4177.5 kHz
4438 - 4650 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2	ERC/REC 70-03	Railway applications		EN 300 330	4516 kHz Euroloop systems

4700 - 4750 kHz AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) Aeronautical Mobile (OR) Appendix 26	
4700 - 4750 kHz AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) ERC/REC 70-03 Inductive applications EN 300 330 Within the bare of the bare	
4700 - 4750 kHz AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) ERC/REC 70-03 Inductive applications EN 300 330 Within the ba	
AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) ERC/REC 70-03 Inductive applications EN 300 330 Within the ba	148.5 kHz - 30 MHz
AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) ERC/REC 70-03 Inductive applications EN 300 330 Within the ba	
ERC/REC 70-03 Inductive applications EN 300 330 Within the ba	
	otment Plan
4750 - 4850 kHz	148.5 kHz - 30 MHz
4750 - 4850 kHz	
AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR) Aeronautical Mobile (OR)	
BROADCASTING 5.113 FIXED FIXED LAND MOBILE ERC/REC 70-03 Inductive applications EN 300 330 Within the ba	l 148.5 kHz - 30 MHz

LAND MOBILE

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
4850 - 4995 kHz						
BROADCASTING 5.113	FIXED		Defence systems			
FIXED	LAND MOBILE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
LAND MOBILE	EU2					
4995 - 5003 kHz						
STANDARD FREQUENCY AND TIME SIGNAL(5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL(5000 kHz)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5003 - 5005 kHz					- 11	
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
Space research	Space research					
5005 - 5060 kHz						
BROADCASTING 5.113	FIXED		Defence systems			
FIXED		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5060 - 5250 kHz						
FIXED	FIXED		Defence systems			
Mobile except aeronautical mobile	Mobile except aeronautical mobile	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.133	EU2		''			
5250 - 5450 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5450 - 5480 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)			
FIXED LAND MOBILE	FIXED LAND MOBILE		Defence systems			
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5480 - 5680 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
5.111	5.111	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.115	5.115		Radiotelephony distress and safety traffic		EN 300 373	5680 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5680 - 5730 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.111	5.111		Radiotelephony distress		EN 300 373	5680 kHz
5.115	5.115		and safety traffic			3000 KI IZ
5730 - 5900 kHz						
FIXED	FIXED		Defence systems			
LAND MOBILE	LAND MOBILE					
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					
5900 - 5950 kHz						
BROADCASTING 5.134	BROADCASTING 5.134		Broadcasting		EN 302 017	Article 12 planning procedure
			•		EN 302 245	,
5.136	5.136	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5950 - 6200 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 017	Article 12 planning procedure.
					EN 302 245	Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
6200 - 6525 kHz						
MARITIME MOBILE 5.109 5.110 5.130	MARITIME MOBILE 5.109 5.110 5.130		DSC calling			Ship stations 6312.5, 6313, 6313.5 kHz. Coast stations 6331, 6331.5, 6332 kHz
5.132 5.137	5.132 EU2 5.137		DSC distress traffic			6312 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime			Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information	on		6314 kHz
			Radiotelephony distress and safety traffic			6215 kHz
			Telex distress traffic			6268 kHz
6525 - 6685 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
6685 - 6765 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
6765 - 7000 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R) 5.138 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 6765-6795 kHz; and within the band 148.5 kHz - 30 MHz
5.138 5.138A	5.138 EU2 5.138A		ISM			Within the band 6765-6795 kHz
5.139		ERC/REC 70-03	Non-Specific SRDs		EN 300 330	Within the band 6765-6795 kHz
7000 - 7100 kHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
AMATEUR-SATELLITE	AMATEUR-SATELLITE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.140 5.141 5.141A						
7100 - 7200 kHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
5.141A 5.141C 5.142	5.141C	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
7200 - 7300 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
7300 - 7400 kHz						
BROADCASTING 5.134	BROADCASTING 5.134		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure WARC92 band, change of band utilisation is effective from 1 April 2007.
5.143	5.143					Digital systems to be introduced
5.143A 5.143B	5.143B	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.143C						
5.143D						
7400 - 7450 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 245	Article 12 planning procedure
					EN 302 017	
5.143B	5.143B	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 7400-8800 kHz; and within the band 148.5 kHz - 30 MHz
5.143C						
7450 - 8100 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 7400-8800 kHz; and
5.143E	5.143E EU2					within the band 148.5 kHz - 30 MHz

5.144

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
8100 - 8195 kHz						
FIXED MARITIME MOBILE	FIXED MARITIME MOBILE	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 7400-8800 kHz; and within the band 148.5 kHz - 30 MHz
	EU2		Maritime		EN 300 373	Appendix 17 channeling plan
8195 - 8815 kHz						
MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145		DSC calling		EN 300 373	Ship stations 8415, 8415.5, 8416 kHz. Coast stations 8436.5, 8437, 8437.5 kHz
5.111	5.145 EU2 5.111		DSC distress traffic		EN 300 373	8414.5 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 7400-8800 kHz; and within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information	n	EN 300 373	8416.5 kHz
			Radiotelephony distress and safety traffic		EN 300 373	8291 kHz
			Telex distress traffic		EN 300 373	8376.5 kHz
8815 - 8965 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
8965 - 9040 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR))		Appendix 26 Allotment Plan
			Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
9040 - 9400 kHz						
FIXED	FIXED		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					
9400 - 9500 kHz						
BROADCASTING 5.134	BROADCASTING 5.134		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
5.146	5.146	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
9500 - 9900 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
5.147	5.147	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
9900 - 9995 kHz						
FIXED	FIXED		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					
9995 - 10003 kHz						
STANDARD FREQUENCY AND TIME SIGNAL(10000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL(10000 kHz)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.111	5.111					
10003 - 10005 kHz						
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
Space research	Space research		SAR (communications)			10003 kHz (+/-3 kHz) concerning manned space vehicles
5.111	5.111					marined space verifices
10005 - 10100 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
5.111	5.111	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
10100 - 10150 kHz						
FIXED	FIXED		Amateur		EN 301 783	
Amateur	Amateur		Defence systems			
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
10150 - 11175 kHz						
FIXED	FIXED		Defence systems			
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R) EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 10200-11000 kHz; and within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
11175 - 11275 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
11275 - 11400 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
11400 - 11600 kHz						
FIXED	FIXED		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2	ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
11600 - 11650 kHz						
BROADCASTING 5.134	BROADCASTING 5.134		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
5.146	5.146	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
11650 - 12050 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
5.147	5.147	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications			Within the band 11100-16000 kHz
12050 - 12100 kHz						
BROADCASTING 5.134	BROADCASTING 5.134		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. WARC92 band, change of band utilisation is effective from 1 April 2007.
5.146	5.146	FDC/DFC 70.00	la dividira di se Care			Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
12100 - 12230 kHz						
FIXED	FIXED		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2	ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
12230 - 13200 kHz						
MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		DSC calling		EN 300 373	Ship stations 12577.5, 12578, 12578.5 kHz. Coast stations 12657, 12657.5, 12658 kHz
			DSC distress traffic		EN 300 373	12577 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information	on	EN 300 373	12579 kHz
			Radiotelephony distress and safety traffic		EN 300 373	12290 kHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
			Telex distress traffic		EN 300 373	12520 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
13200 - 13260 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
13260 - 13360 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
13360 - 13410 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
RADIO ASTRONOMY	RADIO ASTRONOMY					within the band 12300 20000 KHZ
5.149	5.149 EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Radio astronomy			
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
13410 - 13570 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
Mobile except aeronautical mobile (R) 5.150	Mobile except aeronautical mobile (R) 5.150 EU2		Defence systems			
3.130	3.130 E02	ERC/REC 70-03	Inductive applications		EN 300 330 EN 302 291	Within the band 13553-13567 kHz; and within the band 148.5 kHz - 30 MHz
			ISM			Within the band 13553-13567 kHz
		ERC/REC 70-03	Non-Specific SRDs		EN 300 330	Within the band 13553-13567 kHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
13570 - 13600 kHz						
BROADCASTING 5.134	BROADCASTING 5.134	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.151	5.151		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
13600 - 13800 kHz						
BROADCASTING	BROADCASTING	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
13800 - 13870 kHz						
BROADCASTING 5.134	BROADCASTING 5.134	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.151	5.151		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
13870 - 14000 kHz						
FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
Mobile except determination mobile (iv)	(R)		Defence systems			
	-	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
14000 - 14250 kHz						
AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Amateur		EN 301 783	
			Amateur Satellite			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
14250 - 14350 kHz						
AMATEUR	AMATEUR	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.152			Amateur		EN 301 783	
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
14350 - 14990 kHz						
FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
woode except actorization modific (tv)	(R)		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
14990 - 15005 kHz						
STANDARD FREQUENCY AND TIME SIGNAL(15000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL(15000 kHz)	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.111	5.111	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
			SAR (communications)			14993 kHz (+/-3 kHz) concerning manned space vehicles

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
15005 - 15010 kHz						
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
Space research	Space research	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
15010 - 15100 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
15100 - 15600 kHz						
BROADCASTING	BROADCASTING	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Broadcasting		EN 302 017	Article 12 planning procedure.
					EN 302 245	Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
15600 - 15800 kHz						
BROADCASTING 5.134	BROADCASTING 5.134	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.146	5.146		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz
15800 - 16360 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.153	EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Railway applications		EN 302 609	Within the band 11100-16000 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
16360 - 17410 kHz						
MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		DSC calling		EN 300 373	Ship stations 16805, 16805.5, 16806 kHz. Coast stations 16903, 16903.5, 16904 kHz
			DSC distress traffic		EN 300 373	16804.5 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information		EN 300 373	16806.5 kHz
			Radiotelephony distress and safety traffic		EN 300 373	16420 kHz
			Telex distress traffic		EN 300 373	16695 kHz
17410 - 17480 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
17480 - 17550 kHz						
BROADCASTING 5.134	BROADCASTING 5.134	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.146	5.146		Broadcasting		EN 302 017 EN 302 245	Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
17550 - 17900 kHz						
BROADCASTING	BROADCASTING	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
17900 - 17970 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
17970 - 18030 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
			Aeronautical Mobile (OR)			Appendix 26 Allotment Plan
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
18030 - 18052 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
18052 - 18068 kHz						
FIXED Space research	FIXED Space research	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
·	EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
40000 40400 111-						
18068 - 18168 kHz AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.154			Amateur		EN 301 783	
			Amateur Satellite			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
18168 - 18780 kHz						
FIXED Mobile except aeronautical mobile	FIXED Mobile except aeronautical mobile	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	,		Defence systems			
			DSC calling		EN 300 373	Ship stations 18898.5, 18899. 18899.5 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
18780 - 18900 kHz						
MARITIME MOBILE	MARITIME MOBILE	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan
18900 - 19020 kHz						
BROADCASTING 5.134	BROADCASTING 5.134	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
5.146	5.146		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
19020 - 19680 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		Defence systems			
	LUZ	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
19680 - 19800 kHz						
MARITIME MOBILE 5.132	MARITIME MOBILE 5.132	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		DSC calling		EN 300 373	Coast stations 19703.5, 19704, 19704.5 kHz
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information	n	EN 300 373	19680.5 kHz
19800 - 19990 kHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
	EU2		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
19990 - 19995 kHz						
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices within the band 12500-20000 kHz
Space research 5.111	Space research 5.111	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
· · · ·			SAR (communications)			19993 kHz (+/-3 kHz) concerning manned space vehicles

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
19995 - 20010 kHz						
STANDARD FREQUENCY AND	STANDARD FREQUENCY AND	ERC/REC 70-03	Active medical implants		EN 300 330	Active animal implantable devices
TIME SIGNAL(20000 kHz)	TIME SIGNAL(20000 kHz)	ERC/REC 70-03	Active medical implants		EN 300 330	within the band 12500-20000 kHz
5.111	5.111	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
20010 - 21000 kHz						
FIXED	FIXED		Defence systems			
Mobile	Mobile	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					
21000 - 21450 kHz						
AMATEUR	AMATEUR		Amateur			
AMATEUR-SATELLITE	AMATEUR-SATELLITE		Amateur Satellite		EN 301 783	
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
21450 - 21850 kHz						
BROADCASTING	BROADCASTING		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
21850 - 21870 kHz						
FIXED 5.155A	FIXED		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.155	EU2					
21870 - 21924 kHz						
FIXED 5.155B	FIXED 5.155B		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					
21924 - 22000 kHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical mobile (R)			Appendix 27 Allotment Plan. Including HF Data Links
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
22000 - 22855 kHz						
MARITIME MOBILE 5.132	MARITIME MOBILE 5.132		DSC calling		EN 300 373	Ship stations 22374.5, 22375, 22375.5 kHz. Coast stations 22444, 22444.5, 22445 kHz
5.156	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information	n 	EN 300 373	22376 kHz
22855 - 23000 kHz						
FIXED	FIXED		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.156	EU2					
23000 - 23200 kHz						
FIXED	FIXED		Defence systems			
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
5.156	EU2					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
23200 - 23350 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Aeronautical Mobile (OR			
FIXED 5.156A	FIXED 5.156A		Defence systems			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
23350 - 24000 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile 5.157	MOBILE except aeronautical mobile 5.157 EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
24000 - 24890 kHz						
FIXED	FIXED		Defence systems			
LAND MOBILE	LAND MOBILE EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
24890 - 24990 kHz						
AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		Amateur 		EN 301 783	
AND TECH OFFICERE	AWATEON OATEELTE		Amateur Satellite			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
24990 - 25005 kHz						
STANDARD FREQUENCY AND TIME SIGNAL(25000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL(25000 kHz)	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
25005 - 25010 kHz STANDARD FREQUENCY AND	STANDARD FREQUENCY AND	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
TIME SIGNAL Space research	TIME SIGNAL Space research		Space Research			Scientific and medical space research
25010 - 25070 kHz FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
25070 - 25210 kHz						
MARITIME MOBILE	MARITIME MOBILE		DSC calling		EN 300 373	Ship stations 25208.5, 25209, 25209.5 kHz
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Maritime		EN 300 373	Appendix 17 channeling plan

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
25210 - 25550 kHz						
FIXED	FIXED		Defence systems			
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	EU2					
25550 - 25670 kHz						
RADIO ASTRONOMY	RADIO ASTRONOMY	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
			Radio astronomy			
5.149	5.149					
25670 - 26100 kHz BROADCASTING	BROADCASTING		Broadcasting		EN 302 017 EN 302 245	Article 12 planning procedure. Digital systems to be introduced
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
26100 - 26175 kHz MARITIME MOBILE 5.132	MARITIME MOBILE 5.132		DSC calling		EN 300 373	Coast stations 26121, 26121.5, 26122 kHz
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
	202		Maritime		EN 300 373	Appendix 17 channeling plan. Appendix 25 allotment plan
			Maritime Safety Information	on	EN 300 373	26100.5 kHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Co	mmon Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
26175 - 27500 kHz							
FIXED	FIXED		ECC/DEC/(11)03	CB radio (CEPT PR 27)		EN 300 135	Within the band 26.960-27.410 MHz
MOBILE except aeronautical mobile	MOBILE exc	ept aeronautical mobile				EN 300 433	
5.150	5.150	EU2		Defence systems			
			ERC/DEC/(01)16 ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 26.957-27.283 MHz
			ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
				ISM			Within the band 26.957-27.283 MHz
			ERC/DEC/(01)10 ERC/REC 70-03	Model control		EN 300 220	26.995, 27.045, 27.095, 27.145, 27.195 MHz
			ERC/DEC/(01)02 ERC/REC 70-03	Non-Specific SRDs		EN 300 220	Within the band 26.957-27.283 MHz
			ERC/REC 70-03	Railway applications		EN 302 608	27.095 MHz Eurobalise system
27500 - 28000 kHz							
FIXED	FIXED			Defence systems			
METEOROLOGICAL AIDS MOBILE	MOBILE	OGICAL AIDS	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
28 - 29.7 MHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
AMATEUR-SATELLITE	AMATEUR-SATELLITE		Amateur Satellite			
		ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
29.7 - 30.005 MHz						
FIXED	MOBILE	ERC/REC 70-03	Active medical implants		EN 302 510	Within the band 30.0-37.5 MHz
MOBILE			Defence systems	EU1		
	EU2	ERC/REC 70-03	Inductive applications		EN 300 330	Within the band 148.5 kHz - 30 MHz
		ERC/REC 70-03	Radio microphones and Assistive Listening device		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis
30.005 - 30.01 MHz						
FIXED	MOBILE	ERC/REC 70-03	Active medical implants		EN 302 510	Within the band 30.0-37.5 MHz
MOBILE SPACE OPERATION (satellite			Defence systems	EU1		
identification) SPACE RESEARCH	EU2	ERC/REC 70-03	Radio microphones and Assistive Listening device		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
30.01 - 37.5 MHz						
FIXED	MOBILE	ERC/REC 70-03	Active medical implants		EN 302 510	Within the band 30.0-37.5 MHz
MOBILE	EU2 EU27		Defence systems	EU1		The bands 30.3-30.5 MHz and 32.15- 32.45 MHz are harmonised military bands
	EU21	ERC/DEC/(01)11 ERC/REC 70-03	Model control		EN 300 220	Within the band 34.995-35.225 MHz only for flying models
		T/R 25-08	PMR		EN 300 086	
					EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening devic	ces	EN 300 422	Within the band 29.7-47.0 MHz. Within the band 30.01-34.90 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
37.5 - 38.25 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE Radio astronomy	Radio astronomy	T/R 25-08	PMR		EN 300 086	
5.149	5.149 EU2				EN 300 113 EN 300 219	
					EN 300 296 EN 300 341	
					EN 300 341 EN 300 390	
					EN 300 471 EN 301 166	
					EN 302 561	
			Radio astronomy			Continuum observations
		ERC/REC 70-03	Radio microphones and Assistive Listening devic		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
38.25 - 39.986 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE		EDC/DEC/(00)04				Within the benefit 20.0.20.0 MUL
	EU2	ERC/REC/(00)04	Meteor scatter communications			Within the band 39.0-39.2 MHz
		T/R 25-08	PMR		EN 300 086	
					EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening devi	dices	EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis
39.986 - 40.02 MHz						
	140011 5		D (- 114		
FIXED MOBILE	MOBILE		Defence systems	EU1		
	Space research	T/R 25-08	PMR		EN 300 086	
Space research	EU2				EN 300 113	
	EUZ				EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening devi	dices	EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allo	ECC/ERC harmonisation cation measures	Application	European footnotes	Standard	Notes
40.02 - 40.66 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE	WOBILL					
WODIEL		T/R 25-08	PMR		EN 300 086	
	EU2				EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening device		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis
40.66 - 40.7 MHz						
FIXED MOBILE	MOBILE		Defence systems	EU1		
			ISM			
5.150	5.150 EU2	ERC/DEC/(01)12	Model control		EN 300 220	40.665, 40.675, 40.685, 40.695 MHz
		ERC/DEC/(01)03	Non-Specific SRDs		EN 300 220	
		ERC/REC 70-03				
		ERC/REC 70-03	Radio microphones and Assistive Listening devi	ces	EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
40.7 - 40.98 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE						
		T/R 25-08	PMR		EN 300 086	
	EU2				EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening device	ces	EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis
40.98 - 41.015 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE	Space research	T/R 25-08	PMR		EN 300 086	
Space research	FUO				EN 300 113	
5.160	EU2				EN 300 219	
5.161					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening devic	ces	EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
41.015 - 44 MHz						
FIXED	MOBILE		Defence systems	EU1		Harmonised military band
MOBILE		T/R 25-08	PMR		EN 300 086	
5.160	EU27				EN 300 113	
5.161					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ERC/REC 70-03	Radio microphones and Assistive Listening devic		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
44 - 46.4 MHz							
FIXED	MOBILE			Defence systems	EU1		Harmonised military band
MOBILE			T/R 25-08	PMR		EN 300 086	
5.162	5.162A	EU27	1/K 25-06	FIVIR		EN 300 088	
5.162A	002/					EN 300 219	
						EN 300 296	
						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
			ERC/REC 70-03	Radio microphones and Assistive Listening devi		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis
				Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
46.4 - 47 MHz							
FIXED	MOBILE			Defence systems	EU1		Harmonised military band
MOBILE			T/R 25-08	PMR		EN 300 086	
5.162	5.162A	EU27	1/10 20 00	1 WIIX		EN 300 113	
5.162A						EN 300 219	
						EN 300 296	
						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
			ERC/REC 70-03	Radio microphones and Assistive Listening devi		EN 300 422	Within the band 29.7-47.0 MHz. Narrow band audio systems including tour guide systems on a tuning range basis
				Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
47 - 48 MHz						
BROADCASTING	LAND MOBILE		Defence systems	EU1		
			On-site paging		EN 300 224	On site paging in the band 47.0-
5.162A	5.162A EU2					47.25 MHz
5.163	5.163 EU3	T/R 25-08	PMR		EN 300 086	Single frequency applications
5.164	5.164				EN 300 113	
5.165					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
			Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services
48 - 48.5 MHz						
BROADCASTING	LAND MOBILE		Defence systems	EU1		
		T/R 25-08	PMR		EN 300 086	Single frequency applications
5.162A	5.162A EU2				EN 300 113	
5.163	5.163 EU3				EN 300 219	
5.164	5.164				EN 300 341	
5.165					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
			Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services

ECC/ERC

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
48.5 - 50 MHz						
BROADCASTING	LAND MOBILE		Defence systems	EU1		
		T/R 25-08	PMR		EN 300 086	Single frequency applications
5.162A	5.162A EU2				EN 300 113	
5.164	5.164 EU3				EN 300 219	
5.165					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
			Space Research/EES	S		
			Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services
50 - 51 MHz						
BROADCASTING	LAND MOBILE		Amateur		EN 301 783	
	Amateur		Defence systems	EU1		
5.162A	5.162A EU2	T/R 25-08	PMR		EN 300 086	Single frequency applications
5.164	5.164 EU3				EN 300 113	9
5.165					EN 300 219	
5.169					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
			Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services

ECC/ERC

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
51 - 52 MHz							
BROADCASTING	LAND MO	BILE		Amateur		EN 301 783	
	Amateur			Defence systems	EU1		
5.162A	5.162A	EU2					
5.164	5.164	EU3	T/R 25-08	PMR		EN 300 086	Single frequency applications
5.165						EN 300 113	
5.169						EN 300 219	
						EN 300 296	
						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
				Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services
52 - 54 MHz							
BROADCASTING	LAND MO	BILE		Defence systems	EU1		
			T/R 25-08	PMR		EN 300 086	Single frequency applications
5.162A	5.162A	EU2				EN 300 113	
5.164	5.164	EU3				EN 300 219	
5.165						EN 300 296	
5.169						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
				Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
54 - 61 MHz							
BROADCASTING	LAND MC	BILE		Defence systems	EU1		
			T/R 25-08	 PMR		EN 300 086	ML paired with 61-68 MHz
5.162A	5.162A	EU2				EN 300 113	
5.163	5.163	EU3				EN 300 219	
5.164	5.164					EN 300 296	
5.165						EN 300 341	
5.171						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
				Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services
61 - 68 MHz							
BROADCASTING	LAND MC	BILE		Defence systems	EU1		
			T/R 25-08	PMR		EN 300 086	FB paired with 54-61 MHz
5.162A	5.162A	EU2				EN 300 113	·
5.164	5.164	EU3				EN 300 219	
5.165						EN 300 296	
5.171						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
				Wind profiler radars			In the range 46-68 MHz, geographical sharing with other services

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
68 - 70.45 MHz							
FIXED	MOBILE			Defence systems	EU1		
MOBILE except aeronautical mobile			ECC/DEC/(06)06	PMR/PAMR		EN 300 086	ML paired with 77.8-80.25 MHz
5.175		EU2	T/R 25-08	I WINT AWIN		EN 300 113	INIL paired with 77.0-00.23 Miliz
5.175		EU4	1/K 25-06			EN 300 219	
		EU9				EN 300 219	
		LO9				EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
70.45 - 74.8 MHz							
FIXED	MOBILE	except aeronautical mobile		Defence systems	EU1		Harmonised military band 73.3-74.1
MOBILE except aeronautical mobile	Radio ast	ronomy					MHz
E 4.40	F 140	EUO	ECC/DEC/(06)06	PMR/PAMR		EN 300 086	ML paired with 80.25-84.6 MHz
5.149	5.149	EU2	T/R 25-08			EN 300 113	
5.175		EU4 EU9				EN 300 219	
5.177						EN 300 296	
5.179		EU27				EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	
				Radio astronomy			Continuum observations, in 73-74.6 MHz RA for solar wind monitoring

ECC/ERC

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
74.8 - 75.2 MHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		ILS/marker beacons			
5.180 5.181	5.180					
75.2 - 77.7 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE except aeronautical mobile		ECC/DEC/(06)06	PMR/PAMR		EN 300 086	ML paired with 85.0-87.5 MHz
5.175	EU2	T/R 25-08			EN 300 113	
5.179					EN 300 219	
					EN 300 296	
					EN 300 341 EN 300 390	
					EN 300 390 EN 300 471	
					EN 301 166	
					EN 302 561	
77.7 - 77.8 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE except aeronautical mobile		ECC/DEC/(06)06	PMR/PAMR		EN 300 086	Single frequency applications
5.175	EU2	T/R 25-08			EN 300 113	emgie ne queney approximation
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European (Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
77.8 - 84.6 MHz							
FIXED	MOBILE			Defence systems	EU1		Harmonised military band 79.0-79.7
MOBILE except aeronautical mobile							MHz
5.175		EU2	ECC/DEC/(06)06	PMR/PAMR		EN 300 086	FB paired with 68-74.8 MHz
5.187		EU27	T/R 25-08			EN 300 113	
						EN 300 219	
						EN 300 296 EN 300 341	
						EN 300 341	
						EN 300 471	
						EN 301 166	
						EN 302 561	
84.6 - 85 MHz							
FIXED	MOBILE			Defence systems	EU1		
MOBILE except aeronautical mobile			ECC/DEC/(06)06	PMR/PAMR		EN 300 086	Single frequency applications
5.175		EU2	T/R 25-08	FIVIT/FAIVIT		EN 300 113	Single frequency applications
5.187		L02	1717 23 00			EN 300 219	
0.107						EN 300 296	
						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
85 - 87.5 MHz						
FIXED	MOBILE		Defence systems	EU1		
MOBILE except aeronautical mobile			DMD/DAMD			ED paired with 75.0.77.7 MHz
5.175	EU2	ECC/DEC/(06)06 T/R 25-08	PMR/PAMR		EN 300 086 EN 300 113	FB paired with 75.2-77.7 MHz
5.175	EUZ	1/R 25-06			EN 300 113 EN 300 219	
5.167					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
87.5 - 100 MHz						
BROADCASTING	BROADCASTING		FM Sound Broadcasting		EN 302 018	Geneva Agreement GE84
		ERC/REC 70-03	Wireless Audio		EN 301 357	Within the band 87.5-108.0 MHz
5.190						
100 - 108 MHz						
BROADCASTING	BROADCASTING		FM Sound Broadcasting		EN 302 018	Geneva Agreement GE84
		ERC/REC 70-03	Wireless Audio		EN 301 357	Within the band 87.5-108.0 MHz
5.192						

5.194

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
108 - 117.975 MHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R)		Aeronautical communications			Safety and regularity of flights, below 112 MHz limited to ground based data link transmitters
5.197	5.197A		ILS/Localiser			Within the band 108-112 MHz
5.197A			VOR			Within the band 108-117.975 MHz
117.975 - 121.45 MHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical communications	EU5	EN 300 676 EN 302 544	Safety and regularity of flights
5.200	5.200				EN 302 567	
121.45 - 121.55 MHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		EPIRB		EN 300 152 EN 302 574	Band only available for distress and safety
5.111	5.111					
5.200	5.200					
121.55 - 136 MHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical communications	EU5	EN 300 676 EN 302 574	123.1 MHz Aeronautical mobile distress communication
5.200	5.200 5.201				EN 302 544 EN 302 567	
5.201	5.201					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
136 - 137 MHz						
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		Aeronautical communications	EU5	EN 300 676 EN 302 544 EN 302 567	
5.202	5.202					
137 - 137.025 MHz METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	ERC/DEC/(99)06	Low earth orbiting sat	ellite £ U6	EN 301 721	
MOBILE-SATELLITE (S/E) 5.208A	MOBILE		Meteorological Satelli	tes		
5.208B 5.209 SPACE OPERATION (S/E) SPACE RESEARCH (S/E)	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209 Space operation (S/E)		Mobile applications			Mobile restricted to Aeronautical Mobile (OR), including air sport
Fixed	Space research (S/E)					(,,
Mobile except aeronautical mobile (R)	. ,					
5.204	5.206					
5.205	5.208					
5.206						

5.2075.208

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
137.025 - 137.175 MHz						
METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	ERC/DEC/(99)06	Low earth orbiting satellit	te € U6 	EN 301 721	
SPACE OPERATION (S/E)	MOBILE		Meteorological Satellites			
SPACE RESEARCH (S/E)	MOBILE-SATELLITE (S/E) 5.208A					
Fixed	5.208B 5.209		Mobile applications			Mobile restricted to Aeronautical Mobile (OR), including air sport
Mobile except aeronautical mobile (R)	Space operation (S/E)					
Mobile-satellite (S/E) 5.208A 5.208B 5.209	Space research (S/E)					
5.204	5.206					
5.205	5.208					
5.206						
5.207						
5.208						
137.175 - 137.825 MHz						
METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	ERC/DEC/(99)06	Low earth orbiting satellit	te £ U6 	EN 301 721	
MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	MOBILE		Meteorological Satellites			
SPACE OPERATION (S/E)	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209		Mobile applications			Mobile restricted to Aeronautical
SPACE RESEARCH (S/E)	Space operation (S/E)					Mobile (OR), including air sport
Fixed	Space research (S/E)					
Mobile except aeronautical mobile (R)						
5.204	5.206					
5.205	5.208					
5.206						
5.207						

5.208

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
137.825 - 138 MHz						
METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	ERC/DEC/(99)06	Low earth orbiting satelli		EN 301 721	
SPACE OPERATION (S/E)	MOBILE		Meteorological Satellites	;		
SPACE RESEARCH (S/E) Fixed	Mobile-satellite (S/E) 5.208A 5.208B 5.209		Mobile applications			Mobile restricted to Aeronautical
Mobile except aeronautical mobile (R)	Space operation (S/E)					Mobile (OR), including air sport
Mobile-satellite (S/E) 5.208A 5.208B 5.209	Space research (S/E)					
5.204	5.206					
5.205	5.208					
5.206						
5.207						
5.208						
138 - 143.6 MHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) LAND MOBILE		Defence systems	EU5		Harmonised military band, including air operation control
	Space research (S/E)		Mobile applications			The frequencies 138.625, 138.675
5.210	5.211 EU2					MHz and 138.650 MHz are used for existing tracking and asset tracing
5.211	EU27					systems on a national basis
5.212		ERC/REC 70-03	Non-Specific SRDs		EN 300 220	Within the band 138,20-138,45 MHz
5.214						
143.6 - 143.65 MHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		Defence systems	EU5		Harmonised military band, including
SPACE RESEARCH (S/E)	LAND MOBILE		20.000 0/0.00			air operation control
,	SPACE RESEARCH (S/E)		Mobile applications			
5.211	5.211 EU2					
5.212	EU27					
5.214						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
143.65 - 144 MHz							
AERONAUTICAL MOBILE (OR)	AERONA LAND MO	UTICAL MOBILE (OR) DBILE		Defence systems	EU5		Harmonised military band, including air operation control
5.210	5.211	EU2		Mobile applications			
5.211		EU27					
5.212							
5.214							
144 - 146 MHz							
AMATEUR	AMATEU	R		Amateur		EN 301 783	
AMATEUR-SATELLITE	AMATEU	AMATEUR-SATELLITE		Amateur Satellite			
5.216							
146 - 146.8 MHz							
FIXED	MOBILE		ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	Single frequency applications
MOBILE except aeronautical mobile			T/R 25-08			EN 300 113	
(R)						EN 300 219	
						EN 300 296	
						EN 300 341 EN 300 390	
						EN 300 390 EN 300 471	
						EN 301 166	
						EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
146.8 - 148 MHz						
FIXED	MOBILE	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	ML-paired with 151.4-152.6 MHz
MOBILE except aeronautical mobile		T/R 25-08			EN 300 113	
(R)					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471 EN 301 166	
					EN 302 561	
148 - 148.4 MHz						
FIXED	MOBILE	ERC/DEC/(99)06	Low earth orbiting sa	atellite £ U6	EN 301 721	
MOBILE except aeronautical mobile (R)	MOBILE-SATELLITE (E/S) 5.209	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 113	ML paired with 152.6-153.0 MHz
MOBILE-SATELLITE (E/S) 5.209		T/R 25-08			EN 300 219	
5.218	5.218				EN 300 296	
5.219	5.219				EN 300 341	
5.221	5.221				EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
148.4 - 149.9 MHz						
FIXED	MOBILE	ERC/DEC/(99)06	Low earth orbiting sa	atellite £ U6	EN 301 721	
MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (E/S) 5.209 5.218 5.219	MOBILE-SATELLITE (E/S) 5.209 5.218 5.219	ECC/DEC/(06)06 T/R 25-08	PMR/PAMR	EU7	EN 300 086 EN 300 113 EN 300 219 EN 300 296	ML paired with 153.0-154.5 MHz
5.221	5.221				EN 300 341 EN 300 390 EN 300 471 EN 301 166 EN 302 561	
149.9 - 150.05 MHz						
MOBILE-SATELLITE (E/S) 5.209 5.224A	MOBILE	ERC/DEC/(99)06	Low earth orbiting sa	atellite £ U6	EN 301 721	
RADIONAVIGATION-SATELLITE 5.224B	MOBILE-SATELLITE (E/S) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.224B	ECC/DEC/(06)06 T/R 25-08	PMR/PAMR		EN 300 086 EN 300 113	Single frequency applications
5.220	5.220				EN 300 219	
5.222	5.222				EN 300 296 EN 300 341	
5.223	5.223				EN 300 341 EN 300 390 EN 300 471 EN 301 166	
					EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
150.05 - 151.4 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	ML paired with 154.65-156.0 MHz
MOBILE except aeronautical mobile	RADIO ASTRONOMY	T/R 25-08			EN 300 113	
RADIO ASTRONOMY					EN 300 219	
5.149	5.149				EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166 EN 302 561	
					EN 302 561	
			Radio astronomy			Continuum observation and pulsar/solar observations
151.4 - 153 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	FB paired with 146.8-148.4 MHz
MOBILE except aeronautical mobile	RADIO ASTRONOMY	T/R 25-08			EN 300 113	
RADIO ASTRONOMY					EN 300 219	
5.149	5.149				EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
			Radio astronomy			Continuum observation and pulsar/solar observations

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
153 - 154 MHz						
FIXED	MOBILE except aeronautical	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	FB paired with 148.4-149.4 MHz
MOBILE except aeronautical mobile	mobile (R)	T/R 25-08			EN 300 113	
(R)					EN 300 219	
Meteorological aids					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
154 - 154.5 MHz						
FIXED	MOBILE except aeronautical	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	FB paired with 149.4-149.9 MHz
MOBILE except aeronautical mobile	mobile (R) T/R 25-08				EN 300 113	·
(R)					EN 300 219	
5.226					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
154.5 - 154.65 MHz						
FIXED	MOBILE except aeronautical	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	Single frequency applications
MOBILE except aeronautical mobile	mobile (R)	T/R 25-08	. WILVI / WILV	20,	EN 300 113	cingle frequency applications
(R)		1,11, 20, 00			EN 300 219	
5.226					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
154.65 - 156 MHz						
FIXED	MOBILE except aeronautical	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	FB paired with 150.05-151.4 MHz
MOBILE except aeronautical mobile	mobile (R)	T/R 25-08			EN 300 113	
(R) 5.226					EN 300 219	
5.226					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
156 - 156.4875 MHz						
FIXED	MOBILE except aeronautical		Maritime	EU7	EN 300 162	Ship stations paired with 160.625-
MOBILE except aeronautical mobile	mobile (R)			EU8	EN 300 698	160.950 MHz. Single frequency156.300 MHz and in
(R)					EN 301 025	156.375-156.475 MHz.
5.226	5.226				EN 301 178	RR Appendix 18
					EN 301 929	
156.4875 - 156.5375 MHz						
MARITIME MOBILE (distress and	MARITIME MOBILE (distress and		DSC for distress and	d calling	EN 301 025	156.525 MHz.
calling via DSC)	calling via DSC)				EN 301 929	RR Appendix 18
5.111	5.111					
5.226	5.226					
5.227	5.227					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
156.5375 - 156.5625 MHz						
MARITIME MOBILE (distress and calling via DSC) 5.226	MOBILE except aeronautical mobile (R) MARITIME MOBILE (distress and calling via DSC) 5.226		Maritime	EU7 EU8	EN 300 162 EN 300 698 EN 301 025 EN 301 178	Single frequency applications. RR Appendix 18
5.227	5.227				EN 301 929	
156.5625 - 156.7625 MHz						
FIXED MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)		Maritime	EU7 EU8	EN 300 162 EN 300 698	Single frequency applications. RR Appendix 18
5.226	5.226				EN 301 025 EN 301 178 EN 301 929	
450 7005 450 0075 8815						
156.7625 - 156.8375 MHz MARITIME MOBILE (distress and calling)	MARITIME MOBILE (distress and calling)		Distress, safety and calling		EN 300 162 EN 301 929	156.8 MHz. RR Appendix 18. Single frequency applications
5.111 5.226	5.111 5.226					
156.8375 - 157.45 MHz						
FIXED MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		Maritime	EU7 EU8	EN 300 162 EN 300 698 EN 301 025	Ship stations paired with 161.5-162.0 MHz and single frequency applications.
5.226 5.229	5.226				EN 301 025 EN 301 178 EN 301 929	RR Appendix 18

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
455 45 400 0 1111						
157.45 - 160.6 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	ML paired with 162.05-165.2 MHz
MOBILE except aeronautical mobile		T/R 25-08			EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
160.6 - 160.975 MHz						
FIXED	MOBILE except aeronautical mobile		Maritime	EU7	EN 300 162	Coast stations, paired with 156.025-
MOBILE except aeronautical mobile				EU8	EN 300 698	156.350 MHz.
					EN 301 025	RR Appendix 18
5.226	5.226				EN 301 178	
					EN 301 929	
160.975 - 161.475 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	Single frequency applications
MOBILE except aeronautical mobile		T/R 25-08			EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
404 475 400 05 1811						
161.475 - 162.05 MHz						
FIXED	MOBILE except aeronautical mobile		Maritime	EU7	EN 300 162	Coast stations paired with 156.9-
MOBILE except aeronautical mobile				EU8	EN 300 698	157.4 MHz. RR Appendix 18
5.226	5.226				EN 301 025	
5.227A	5.227A				EN 301 178	
5.229	0.2277				EN 301 929	
5.225		ERC/DEC/(99)17	Shipborne AIS			161.975 and 162.025 MHz
162.05 - 165.2 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	FB paired with 157.45-160.6 MHz.
MOBILE except aeronautical mobile	MODIEE CACOPT defondation modifie	T/R 25-08	1 WHY 7 WHY	201	EN 300 113	The frequency 164.175 MHz is used
INCOLE OXCOPT GOTOTIGGIOGI TITODITO		1/11/20/00			EN 300 219	for existing tracking and asset tracing systems on a national basis
5.229					EN 300 296	3 .7
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
165.2 - 165.225 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR		EN 300 086	Single frequency applications
MOBILE except aeronautical mobile	·	T/R 25-08			EN 300 113	
					EN 300 219	
5.229					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
165.225 - 169.4 MHz						
FIXED	MOBILE except aeronautical mobile	ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	ML paired with 169.825-174.0 MHz
MOBILE except aeronautical mobile		T/R 25-08			EN 300 113	
					EN 300 219	
5.229					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
169.4 - 169.825 MHz						
FIXED MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ECC/DEC/(05)02 ERC/REC 70-03	Aids for hearing impaire	ed	EN 300 422	The bands 169.400-169.475 MHz; and 169.4875-169.5875; and within the band 169.4-174.0 MHz on a tuning range basis
5.229		ECC/DEC/(05)02 ERC/REC 70-03	Asset Tracking and Tracing / Meter reading		EN 300 220	turning range basis
		ECC/DEC/(05)02	PMR/PAMR	EU7	EN 300 086	Single frequency applications
		ECC/DEC/(06)06			EN 300 113	
		T/R 25-08			EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ECC/DEC/(05)02 ERC/REC 70-03	Social alarms		EN 300 220	Within the bands169.4750-169.4875 MHz and 169.5875-169.6000 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
169.825 - 174 MHz						
FIXED MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ERC/REC 70-03	Aids for hearing impaired		EN 300 422	Within the band 173.965-174.015 MHz; and within the band 169.4- 174.0 MHz on a tuning range basis
5.229		ECC/DEC/(06)06	PMR/PAMR	EU7	EN 300 086	FB paired with 165.225-169.4 MHz
		T/R 25-08			EN 300 113	
					EN 300 219	
					EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
174 - 216 MHz						
BROADCASTING	BROADCASTING LAND MOBILE	ERC/REC 70-03	Aids for hearing impaired		EN 300 422	Within the band 173.965-174.015 MHz
5.235	5.235	ERC/REC 70-03	Radio microphones and Assistive Listening device	es	EN 300 422	On a tuning range basis
5.237			T-DAB		EN 302 077	Wiesbaden 1995 Special Arrangement, as revised in Constanta, 2007
			TV Broadcasting		EN 302 296	Geneva Agreement 2006.
					EN 302 297	
216 - 223 MHz						
BROADCASTING	BROADCASTING		T-DAB		EN 302 077	Wiesbaden 1995 Special Arrangement, as revised in Constanta, 2007
5.235	5.235		TV Broadcasting		EN 302 296	Geneva Agreement 2006.
5.237			Ç		EN 302 297	<u> </u>
5.243						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Co	ommon Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
223 - 225 MHz							
BROADCASTING Fixed	BROADCAS	STING		T-DAB		EN 302 077	Wiesbaden 1995 Special Arrangement, as revised in Constanta, 2007
Mobile 5.243				TV Broadcasting		EN 302 296	Geneva Agreement 2006.
5.246 5.247						EN 302 297	
225 - 230 MHz							
BROADCASTING Fixed	BROADCAS Land mobile			T-DAB		EN 302 077	Wiesbaden 1995 Special Arrangement, as revised in Constanta, 2007
Mobile 5.246 5.247		EU10		TV Broadcasting		EN 302 296 EN 302 297	Geneva Agreement 2006. This band is within the military tuning range 225-400 MHz. Sharing with defence on national basis
230 - 235 MHz							
FIXED MOBILE	MOBILE			Defence systems			Harmonised military band
5.247 5.251		EU10 EU27		T-DAB		EN 302 077	T-DAB sharing with defence on a national basis. Wiesbaden 1995 Special Arrangement, as revised in Constanta, 2007
5.252		L021					Constanta, 2007
235 - 240 MHz							
FIXED MOBILE	MOBILE			Defence systems			Harmonised military band
5.252 5.254	5.254	EU10 EU27		T-DAB		EN 302 077	T-DAB sharing with defence on a national basis. Wiesbaden 1995 Special Arrangement, as revised in Constanta, 2007

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
240 - 242.95 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band.
MOBILE							Air traffic control
5.111	5.254	EU10					
5.254		EU27					
5.256							
242.95 - 243.05 MHz							
FIXED	AERONA	UTICAL MOBILE		EPIRB		EN 300 152	Band only available for distress and
MOBILE							safety purposes 243.0 MHz
5.111	5.111						
5.254	5.254						
5.256	5.256						
243.05 - 267 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band.
MOBILE except aeronautical mobile							Air traffic control
5.111	5.254	EU10					
5.252		EU27					
5.254							
5.256							

5.256A

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
267 - 272 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band.
MOBILE							Air traffic control
Space operation (S/E)							
5.254	5.254	EU10					
5.257	5.257	EU27					
272 - 273 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band.
MOBILE							Air traffic control
SPACE OPERATION (S/E)							
5.254	5.254	EU10					
		EU27					
273 - 312 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band.
MOBILE							Air traffic control
5.254	5.254	EU10					
		EU27					
312 - 315 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band.
MOBILE							Air traffic control
Mobile-satellite (E/S) 5.254 5.255							
	5.254	EU10					
	5.255	EU27					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
315 - 322 MHz						
FIXED MOBILE	MOBILE		Defence systems			Harmonised military band. Air traffic control
5.254	5.254 EU10 EU27					
322 - 328.6 MHz						
FIXED	MOBILE		Defence systems			Harmonised military band
MOBILE	RADIO ASTRONOMY		Radio astronomy			Continuum observations also VLBI
RADIO ASTRONOMY 5.149	5.149 EU10 EU27					
328.6 - 335.4 MHz						
AERONAUTICAL RADIONAVIGATION 5.258 5.259	AERONAUTICAL RADIONAVIGATION 5.258 EU2		ILS/Glide path			
335.4 - 380 MHz FIXED MOBILE	MOBILE		Defence systems	EU7		Harmonised military band Air traffic control
5.254	5.254 EU10 EU27					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
380 - 385 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band
MOBILE			ECC/DEC/(08)05	PPDR		EN 300 113	ML paired with 390.0-395.0 MHz.
5.254	5.254	EU2	T/R 25-08			EN 300 390	PPDR (Emergency services) sharing with defence applications. PPDR on a tuning range basis in 380-470 MHz range according to ECC/DEC/(08)05
		EU10 EU27				EN 302 561	
			ECC/DEC/(06)05	PPDR AGA		EN 300 113	Within the bands 384.8-385.0 and
						EN 300 390	394.8-395.0 MHz for AGA emergency 384.750-384.800 MHz
						EN 302 561	and 394.750-394.800 MHz may be used as preferred extension bands
			ERC/DEC/(01)19	PPDR DMO		EN 300 113	Within the bands 380-380.15 and
						EN 300 390	390-390.15 MHz for DMO emergency
						EN 302 561	
385 - 387 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band
MOBILE			T/R 25-08	Digital land mobile		EN 300 113	ML paired with 395-397 MHz.
5.254	5.254	EU2		PMR/PAMR		EN 300 390	PPDR on a tuning range basis in 380-470 MHz range according to
		EU10				EN 301 166	ECC/DEC/(08)05
		EU27				EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
387 - 390 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band
MOBILE			T/D 05 00	District to a description			MI
Mobile-satellite (S/E) 5.208A 5.208B			T/R 25-08	Digital land mobile PMR/PAMR		EN 300 390 EN 300 113	ML paired with 397.0-399.9 MHz. PPDR on a tuning range basis in
5.254 5.255		EU2				EN 301 166	380-470 MHz range according to ECC/DEC/(08)05
		EU10				EN 302 561	200/220/(00)00
		EU27					
390 - 395 MHz							
FIXED MOBILE	MOBILE			Defence systems			Harmonised military band. Emergency services sharing with defence applications
5.254	5.254	EU2	ECC/DEC/(08)05	PPDR		EN 300 113	FB paired with 380-385 MHz.
		EU10	T/R 25-08			EN 300 390	PPDR (Emergency services) sharing with defence applications.
	EU27	EU27				EN 302 561	PPDR on a tuning range basis in 380-470 MHz range according to ECC/DEC/(08)05
			ECC/DEC/(06)05	PPDR AGA		EN 300 113	Within the bands 384.8-385.0 and
						EN 300 390	394.8-395.0 MHz for AGA emergency 384.750-384.800 MHz
				EN 302 561	and 394.750-394.800 MHz may be used as preferred extension bands		
			ERC/DEC/(01)19	PPDR DMO	.============	EN 300 113	Within the bands 380-380.15 and
					EN 300 390	390-390.15 MHz for DMO emergency	
						EN 302 561	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
395 - 399.9 MHz							
FIXED	MOBILE			Defence systems			Harmonised military band
MOBILE			T/R 25-08	Digital land mobile		EN 301 166	FB paired with 385.0-389.9 MHz.
5.254	5.254	EU2	1/10 23-00	PMR/PAMR		EN 302 561	PPDR on a tuning range basis in
		EU10				EN 302 561	380-470 MHz range according to ECC/DEC/(08)05
		EU27				EN 300 113	
399.9 - 400.05 MHz							
MOBILE-SATELLITE (E/S) 5.209 5.224A	MOBILE- 5.224A	SATELLITE (E/S) 5.209	ECC/DEC/(08)05	PPDR			
RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220	RADIONA	AVIGATION-SATELLITE 24B 5.260					
400.05 - 400.15 MHz							
STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)		RD FREQUENCY AND GNAL-SATELLITE (400.1	ECC/DEC/(08)05	PPDR			
5.261	5.261						

5.262

5.262

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
400.15 - 401 MHz						
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	ERC/DEC/(99)06	Low earth orbiting satellite	es	EN 301 721	
METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)		Meteorological radiosond	es	EN 302 054	
MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209		Meteorological Satellites			
SPACE RESEARCH (S/E) 5.263 Space operation (S/E)	SPACE RESEARCH (S/E) 5.263 SPACE OPERATION (S/E)	ECC/DEC/(08)05	PPDR			
5.262	5.262					
5.264	5.264					
401 - 402 MHz						
EARTH EXPLORATION-SATELLITE (E/S)	EARTH EXPLORATION- SATELLITE (E/S)	ERC/REC 70-03	Active medical implants		EN 302 537	
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		Meteorological radiosond	es	EN 302 054	
METEOROLOGICAL-SATELLITE (E/S) SPACE OPERATION (S/E)	METEOROLOGICAL-SATELLITE (E/S)		Meteorological Satellites			Data collection platform telemetry

Fixed

Mobile except aeronautical mobile

EU2

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
402 - 403 MHz						
EARTH EXPLORATION-SATELLITE (E/S) METEOROLOGICAL AIDS	EARTH EXPLORATION- SATELLITE (E/S) METEOROLOGICAL AIDS	ERC/DEC/(01)17 ERC/REC 70-03	Active medical implants		EN 301 839	ULP-AMI within the band 402-405 MHz
METEOROLOGICAL-SATELLITE (E/S)	METEOROLOGICAL-SATELLITE (E/S)		Meteorological radiosondes		EN 302 054	
Fixed			Meteorological Satellites			Data collection platform telemetry
Mobile except aeronautical mobile	EU2	ECC/DEC/(08)05	PPDR			
403 - 405 MHz METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS EU2	ERC/DEC/(01)17 ERC/REC 70-03	Active medical implants Meteorological radiosondo	 9S	EN 301 839 EN 302 054	ULP-AMI within the band 402-405 MHz
405 - 406 MHz						
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	ERC/REC 70-03	Active medical implants		EN 302 537	
Fixed Mobile except aeronautical mobile			Meteorological radiosondo	es	EN 302 054	
	EU2					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
406 - 406.1 MHz						
MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)	ECC/DEC/(08)05	PPDR			
			Sat-EPIRB		EN 300 066	Band only available for distress and
5.266	5.266				EN 302 152	safety purposes
5.267	5.267					
406.1 - 410 MHz						
FIXED	LAND MOBILE	ECC/DEC/(06)06	PMR/PAMR		EN 300 086	Single frequency applications.
MOBILE except aeronautical mobile	RADIO ASTRONOMY	T/R 25-08			EN 300 113	PPDR on a tuning range basis in 380-470 MHz range according to
RADIO ASTRONOMY					EN 300 219	ECC/DEC/(08)05
5.149	5.149				EN 300 296	
					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 302 561	
		ECC/DEC/(08)05	PPDR			
			Radio astronomy			Continuum observation and pulsar observation

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
410 - 420 MHz						
FIXED MOBILE except aeronautical mobile SPACE RESEARCH (S/S) 5.268	MOBILE except aeronautical mobile	ECC/DEC/(04)06 ECC/DEC/(06)06 T/R 25-08	PMR/PAMR		EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471 EN 301 166 EN 301 449 EN 301 526 EN 302 426 EN 302 561	ML paired with 420-430 MHz. PPDR on a tuning range basis in 380-470 MHz range according to ECC/DEC/(08)05
		ECC/DEC/(08)05	PPDR			
420 - 430 MHz						
FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271	MOBILE except aeronautical mobile Radiolocation	ECC/DEC/(04)06 ECC/DEC/(06)06 T/R 25-08	PMR/PAMR	EU7	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471 EN 301 166 EN 301 449 EN 301 526 EN 302 426 EN 302 561	FB paired with 410-420 MHz. PPDR on a tuning range basis in 380-470 MHz range according to ECC/DEC/(08)05
		ECC/DEC/(08)05	PPDR			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
430 - 432 MHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
RADIOLOCATION	RADIOLOCATION	ECC/DEC/(08)05	PPDR			
5.271	5.277 EU2					
5.272	EU12					
5.273						
5.274						
5.275						
5.276						
5.277						
432 - 433.05 MHz						
AMATEUR	AMATEUR		Active sensors (satellite)			The use of this band by sensors in
RADIOLOCATION	RADIOLOCATION					the EESS (active) shall be in accordance with Recommendation
Earth exploration-satellite (active) 5.279A	Earth exploration-satellite (active) 5.279A					ITU-R SA 1260-1

Amateur

PPDR

ECC/DEC/(08)05

5.138

5.271

5.2725.2765.2775.280

EU2

EU12

5.277

EN 301 783

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
433.05 - 434.79 MHz							
AMATEUR	AMATEUR	र		Active sensors (satellite)			The use of this band by sensors in
RADIOLOCATION	RADIOLO	CATION					the EESS (active) shall be in accordance with Recommendation
Earth exploration-satellite (active)	Land mob	ile					ITU-R SA 1260-1
5.279A	Earth expl 5.279A	oration-satellite (active)		Amateur		EN 301 783	
5.138	5.138	EU2		ISM			
5.271	5.277	EU12					
5.272	5.280		ERC/REC 70-03	Non-Specific SRDs		EN 300 220	
5.276			ECC/DEC/(08)05	PPDR			
5.277							
5.280							
5.281							
434.79 - 438 MHz							
AMATEUR	AMATEUR	3		Active sensors (satellite)			The use of this band by sensors in
RADIOLOCATION	AMATEUR	R-SATELLITE					the EESS (active) shall be in accordance with Recommendation
Earth exploration-satellite (active)	RADIOLO	CATION					ITU-R SA 1260-1
5.279A	Earth expl 5.279A	oration-satellite (active)		Amateur		EN 301 783	Amateur Satellite Service restricted to 435-438 MHz
5.138	5.277	EU2					(U 433-430 IVITZ
5.271		EU12		Amateur Satellite			
5.276			ECC/DEC/(08)05	PPDR			
5.277							

5.280 5.282

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allo		onisation	Application	European footnotes	Standard	Notes
438 - 440 MHz							
AMATEUR	AMATEUR			Amateur		EN 301 783	
RADIOLOCATION	RADIOLOCATION	ECC/	DEC/(08)05	PPDR			
5.271 5.273 5.274 5.275 5.276 5.277 5.283	5.277 EU2 EU12		······				
440 - 450 MHz							
FIXED	MOBILE except aeronau	tical mobile		On-site paging		EN 300 224	Call-out & answer-back
MOBILE except aeronautical mobile Radiolocation 5.269 5.270	Radiolocation EU31		/DEC/(05)12 /DEC/(98)25	PMR 446 and Digital PMI 446	₹	EN 300 296 EN 301 166 EN 300 113	Analogue PMR-446 in 446-446.1 MHz. Digital PMR-446 in 446.1-446.2 MHz
5.271 5.284 5.285 5.286		ECC/ T/R 2	/DEC/(06)06 25-08	PMR/PAMR	EU7	EN 300 086 EN 300 113 EN 300 219 EN 300 296	Single frequency operation. PPDR on a tuning range basis in 380-470 MHz range according to ECC/DEC/(08)05

PPDR

Wind profiler radars

ECC/DEC/(08)05

Geographical sharing with other

services

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
450 - 455 MHz FIXED	MOBILE		On-site paging		EN 300 224	Call-out & answer-back
MOBILE 5.286AA		ECC/DEC/(04)06	PMR/PAMR	EU34	EN 300 086	ML paired with 460-465 MHz. PPDR on a tuning range basis in
5.209	EU31	ECC/DEC/(06)06		EU7	EN 300 113	380-470 MHz range according to
5.271		T/R 25-08			EN 300 219	ECC/DEC/(08)05
5.286					EN 300 296	
5.286A					EN 300 341	
5.286B					EN 300 390	
5.286C					EN 301 166	
5.286D					EN 301 449	
5.286E					EN 301 526	
					EN 302 426	
					EN 302 561	
		ECC/DEC/(08)05	PPDR			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
455 - 456 MHz						
FIXED	MOBILE		Existing public cellular			
MOBILE 5.286AA			networks			
5 200	EU31		On-site paging		EN 300 224	Call-out & answer-back
5.209 5.271	EU31	FOC/DEC/(04)00	DMD/DAMD		FN 200 000	MI reciped with ACT ACC MILE
		ECC/DEC/(04)06	PMR/PAMR	EU34	EN 300 086	ML paired with 465-466 MHz. PPDR on a tuning range basis in
5.286A		ECC/DEC/(06)06	380-	380-470 MHz range according to		
5.286B		T/R 25-08			EN 300 219	ECC/DEC/(08)05
5.286C					EN 300 296	
5.286E					EN 300 341	
					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 301 449	
					EN 301 526	
					EN 302 426	
					EN 302 561	
		ECC/DEC/(08)05	PPDR			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
456 - 459 MHz							
FIXED	MOBILE			Existing public cellular			
MOBILE 5.286AA				networks			
5.271	5.287	EU31	T/R 32-02	Maritime on board communications		EN 300 720	Within the band 457.525-457.575 MHz
5.287 5.288				On-site paging		EN 300 224	Call-out & answer-back
5.200			ECC/DEC/(04)06	PMR/PAMR	EU34	EN 300 086	ML paired with 466-469 MHz.
			ECC/DEC/(06)06		EU7	EN 300 113	PPDR on a tuning range basis in 380-470 MHz range according to
			T/R 25-08			EN 300 219	ECC/DEC/(08)05
						EN 300 296	
						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 301 449	
						EN 301 526	
						EN 302 426	
						EN 302 561	
			ECC/DEC/(08)05	PPDR			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
459 - 460 MHz						
FIXED	MOBILE		Existing public cellular			
MOBILE 5.286AA			networks			
5.209	EU31		On-site paging		EN 300 224	Call-out & answer-back
5.271	E031	FCC/DFC//04)06	PMR/PAMR	EU7	EN 300 086	MI poired with 460 470 MI
5.286A		ECC/DEC/(04)06	PIVIR/PAIVIR	EU/	EN 300 086 EN 300 113	ML paired with 469-470 MHz. PPDR on a tuning range basis in
5.286B		ECC/DEC/(06)06 T/R 25-08			EN 300 113 EN 300 219	380-470 MHz range according to ECC/DEC/(08)05
5.286C		1/R 25-08			EN 300 219 EN 300 296	ECC/DEC/(08)05
					EN 300 290 EN 300 341	
5.286E					EN 300 390	
					EN 300 471	
					EN 301 166	
					EN 301 449	
					EN 301 526	
					EN 302 426	
					EN 302 561	
		ECC/DEC/(08)05	PPDR			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
460 - 470 MHz							
FIXED	MOBILE			Existing public cellular networks			
MOBILE 5.286AA Meteorological-satellite (S/E)			T/R 32-02	Maritime on board		EN 300 720	Within the band 467.525-467.575
5.287	5.287	EU31		communications			MHz
5.288	5.289			Meteorological aids			
5.289 5.290				On-site paging		EN 300 224	Call-out & answer-back
			ECC/DEC/(04)06	PMR/PAMR	EU34	EN 300 086	FB paired with 450-460 MHz.
			ECC/DEC/(06)06		EU7	EN 300 113	PPDR on a tuning range basis in 380-470 MHz range according to
			T/R 25-08			EN 300 219	ECC/DEC/(08)05
						EN 300 296	
						EN 300 341	
						EN 300 390	
						EN 300 471	
						EN 301 166	
						EN 301 449	
						EN 301 526 EN 302 426	
						EN 302 561	
						LIV 302 301	
			ECC/DEC/(08)05	PPDR			
				Space Research/EESS			Allocation to EESS is via RR 5.289. Data collection platform telecommand. Geographical sharing with other services

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
470 - 608 MHz						
BROADCASTING	BROADCASTING Mobile	ERC/REC 70-03	Radio microphones and Assistive Listening device		EN 300 422	Within the band 470-862 MHz in a tuning range basis
5.291A	5.291A		SAP/SAB			Mobile applications restricted to SAB/SAP including radio
5.294	5.296					microphones
5.296 5.300			TV Broadcasting		EN 302 296 EN 302 297	Geneva Agreement 2006
5.302 5.304			Wind profiler radars			Limited to the band 470-494 MHz. Geographical sharing with other services
608 - 614 MHz						
BROADCASTING	BROADCASTING		Radio astronomy			Continuum measurements and VLBI
	Mobile Radio astronomy	ERC/REC 70-03	Radio microphones and Assistive Listening device	s	EN 300 422	Within the band 470-862 MHz on a tuning range basis
5.149 5.296	5.149 5.296		SAP/SAB			Mobile applications restricted to SAB/SAP including radio
5.300 5.304	5.306					microphones
5.306			TV Broadcasting		EN 302 296 EN 302 297	Geneva Agreement 2006
614 - 790 MHz						
BROADCASTING	BROADCASTING Mobile	ERC/REC 70-03	Radio microphones and Assistive Listening device	S	EN 300 422	Within the band 470-862 MHz on a tuning range basis
5.296 5.300	5.296 EU13 5.311A		SAP/SAB			Mobile applications restricted to SAB/SAP including radiomicrophones
5.311A 5.312	5.312		TV Broadcasting		EN 302 296 EN 302 297	Geneva Agreement 2006

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
790 - 862 MHz							
BROADCASTING	BROADC	ASTING		-			This band is planned for future
FIXED		except aeronautical					mobile applications, based on the provisions of the radio regulations
MOBILE except aeronautical mobile 5.316B 5.317A	mobile 5.3	316B 5.317A		Defence systems			Tactical links
5.312	5.312	EU2					
5.314	5.316	EU13	ERC/REC 70-03	Radio microphones and	•	EN 300 422	Within the band 470-789 MHz on a
5.315	5.316A			Assistive Listening devices	S		tuning range basis. Within the band 823-832 MHz
5.316							
5.316A				SAP/SAB			Radio Microphones
5.319			ECC/DEC/(09)03	TRA-ECS			IMT is considered as a part of TRA-
			ECC/REC/(11)04				ECS
				TV Broadcasting		EN 302 296 EN 302 297	Geneva Agreement 2006

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
862 - 870 MHz							
BROADCASTING 5.322 FIXED	MOBILE			-			This band is identified for IMT in the RRs, but within CEPT this band is not planned for the harmonised
MOBILE except aeronautical mobile 5.317A	5 222	FIIO		Aids for hearing impaired			introduction of IMT
5.319 5.323	5.323	EU2 EU13		Alus for flearing impaired			
3.323		2010	ERC/REC 70-03	Alarms		EN 300 220	Within the band 868.6-869.700 MHz
				Defence systems			
			ERC/REC 70-03	Non-Specific SRDs		EN 300 220	Within the band 863-870 Strategic Plan for the use of SRD within the band 862-870 MHz adopted
			ERC/REC 70-03	Radio microphones and		EN 300 422	Within the band 863-865 MHz
				Assistive Listening device	es 	EN 301 357	
			ERC/REC 70-03	RFID		EN 302 208	Within the band 865-868 MHz
			ERC/REC 70-03	Wireless Audio		EN 300 220 EN 301 357	Within the band 863-865 MHz. Narrow band analogue voice devices within the band 864.8-865.0 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
870 - 876 MHz							
BROADCASTING 5.322	MOBILE						This band is identified for IMT in the
FIXED	WOBILE			-			RRs, but within CEPT this band is
MOBILE except aeronautical mobile 5.317A							not planned for the harmonised introduction of IMT
5.319	5.323	EU2		Defence systems			The bands 870-876 and 915-921
5.323		EU13					MHz are identified as preferred bands for TRR, in particular for cross-border operations. In countries where these bands are or will be in civil use according to ERC/ECC Decisions (e.g. digital PMR/PAMR), shared use of the bands should be considered on a national basis. Other sub-bands within the tuning range 610-960 MHz may also be used on a national basis according to the national requirements
			ECC/DEC/(02)05 ECC/DEC/(04)06 T/R 25-08	Digital land mobile PMR/PAMR		EN 301 166 EN 301 449 EN 301 526 EN 302 426 EN 302 561	ML paired with 915-921 MHz
876 - 880 MHz							
BROADCASTING 5.322 FIXED MOBILE except aeronautical mobile	MOBILE			-			This band is identified for IMT in the RRs, but within CEPT this band is not planned for the harmonised introduction of IMT
5.317A 5.319	5.323	EU2		Defence systems			Sharing on a national basis
5.323	3.320	EU13	ECC/DEC/(02)05 ECC/DEC/(02)09 ECC/DEC/(02)10 ECC/REC/(05)08	GSM-R		EN 301 502 EN 301 511	ML paired with 921-925 MHz. Railway systems

RR Region 1 Allocation and RR footnotes applicable to CEPT	European (Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
880 - 890 MHz							
BROADCASTING 5.322	MOBILE			Defence systems			Sharing on a national basis
FIXED			F00/PF0//05\00	0011000	FUICO	EN 004 500	MI
MOBILE except aeronautical mobile 5.317A			ECC/REC/(05)08 ERC/DEC/(97)02	GSM-900	EU32	EN 301 502 EN 301 511	ML paired with 925-935 MHz
5.319	5.317A	EU2	FCC/DFC//06\43	INAT		EN 204 009	
5.323	5.323	EU13	ECC/DEC/(06)13	IMT		EN 301 908	
		EU29	ECC/REC/(08)02				
			ECC/DEC/(08)08	MCV			
890 - 915 MHz							
BROADCASTING 5.322	MOBILE		ECC/REC/(05)08	GSM-900	EU32	EN 301 502	ML paired with the band 935-960
FIXED	Radioloca	tion	ERC/DEC/(94)01			EN 301 511	MHz
MOBILE except aeronautical mobile 5.317A			ECC/DEC/(06)13	IMT		EN 301 908	
Radiolocation			ECC/REC/(08)02				
5.323	5.317A	EU13	500/D50//00\22				
	5.323	EU14	ECC/DEC/(08)08	MCV			

EU29

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
915 - 921 MHz							
BROADCASTING 5.322	MOBILE			_			This band is identified for IMT in the
FIXED	Radioloca	ation					RRs, but within CEPT this band is
MOBILE except aeronautical mobile 5.317A	radioloc						not planned for the harmonised introduction of IMT
Radiolocation				Defence systems			The bands 870-876 and 915-921
5.323	5.323	EU2 EU13 EU14		·			MHz are identified as preferred band for TRR, in particular for cross-border operations. In countries where these bands are or will be in civil use according to ERC/ECC Decisions (e.g. digital PMR/PAMR), shared use of the bands should be considered on a national basis. Other sub-bands within the tuning range 610-960 MHz may also be used on a national basis according to the national requirements
			ECC/DEC/(02)05 ECC/DEC/(04)06 T/R 25-08	Digital land mobile PMR/PAMR		EN 301 166 EN 301 449 EN 301 526 EN 302 426 EN 302 561	FB paired with 870-876 MHz
921 - 925 MHz							
BROADCASTING 5.322	MOBILE			-			This band is identified for IMT in the
FIXED	Radioloca	ation					RRs, but within CEPT this band is not planned for the harmonised
MOBILE except aeronautical mobile 5.317A							introduction of IMT
Radiolocation				Defence systems			Sharing on a national basis
5.323	5.323	EU2 EU13 EU14	ECC/DEC/(02)05 ECC/DEC/(02)09 ECC/DEC/(02)10 ECC/REC/(05)08	GSM-R		EN 301 502 EN 301 511	FB paired with 876-880 MHz. Railway systems

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
925 - 935 MHz							
BROADCASTING 5.322	MOBILE			Defence systems	EU30		Sharing on a national basis
FIXED	Radioloca	tion					
MOBILE except aeronautical mobile 5.317A			ECC/REC/(05)08 ERC/DEC/(97)02	GSM-900	EU30 EU32	EN 301 502 EN 301 511	FB paired with 880-890 MHz
Radiolocation			500/D50/(00) 40				
5.323	5.317A 5.323	EU2 EU13	ECC/DEC/(06)13 ECC/REC/(08)02	IMT		EN 301 908	
		EU14 EU29	ECC/DEC/(08)08	MCV			
935 - 942 MHz							
BROADCASTING 5.322	MOBILE		ECC/REC/(05)08	GSM-900	EU32	EN 301 502	FB paired with 890-897 MHz
FIXED	Radioloca	tion	ERC/DEC/(94)01			EN 301 511	
MOBILE except aeronautical mobile 5.317A			ECC/DEC/(06)13	IMT		EN 301 908	
Radiolocation			ECC/REC/(08)02				
5.323	5.317A 5.323	EU13 EU14 EU29	ECC/DEC/(08)08	MCV			
942 - 960 MHz							
BROADCASTING 5.322	MOBILE		ECC/REC/(05)08	GSM-900	EU32	EN 301 502	FB paired with 897-915 MHz
FIXED			ERC/DEC/(94)01			EN 301 511	
MOBILE except aeronautical mobile 5.317A 5.323	5.317A	EU13	ECC/DEC/(06)13 ECC/REC/(08)02	IMT		EN 301 908	
0.020	5.323	EU29					
		-	ECC/DEC/(08)08	MCV			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
960 - 1164 MHz						
AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R) 5.327A	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R) 5.327A		Navigation systems			Including DME, JTIDS, MIDS, SSR, TACAN
5.328	5.328					
1164 - 1215 MHz						
AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION 5.328		Galileo			Within the band 1164-1214 MHz
RADIONAVIGATION 5.325 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B		GLONASS			Within the band 1190.3-1213.8 MHz
5.328A	5.328A	ECC/REC/(10)02	GNSS Repeater		EN 302 645	
			Navigation systems			Including DME, JTIDS, MIDS, SSR, TACAN
1215 - 1240 MHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)			
RADIOLOCATION	RADIOLOCATION		Defence systems			
RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)		GLONASS			Within the band 1237.8-1253.8 MHz
5.330	5.331 EU2	ECC/REC/(10)02	GNSS Repeater		EN 302 645	
5.331 5.332	5.332		GPS			Within the band 1215.6-1239.6 MHz
J.JJZ			Radar and Navigation systems			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1240 - 1260 MHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)			
RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A RADIOLOCATION	RADIOLOCATION RADIONAVIGATION-SATELLITE		Amateur		EN 301 783	
SPACE RESEARCH (active)	(S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)		Defence systems			
Amateur	Amateur		GLONASS			Within the band 1237.8-1253.8 MHz
5.282 5.330	5.331 EU2 5.332	ECC/REC/(10)02	GNSS Repeater		EN 302 645	
5.331			Radar and Navigation			
5.332			systems			
5.335						
1260 - 1270 MHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)			
RADIOLOCATION	RADIOLOCATION		Amateur		EN 301 783	
RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)		Amateur Satellite			
Amateur	Amateur		Defence systems			
5.282	Amateur-satellite 5.282 EU2		Galileo			Within the band 1260-1300 MHz
5.330 5.331	5.331 5.335A		Radar and Navigation systems			

ECC/ERC

5.335 5.335A

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1270 - 1300 MHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)			
RADIOLOCATION	RADIOLOCATION		Amateur		EN 301 783	
RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.329 5.329A SPACE RESEARCH (active)		Defence systems			
Amateur	Amateur		Galileo			Within the band 1260-1300 MHz
5.330	5.331 EU2	ECC/REC/(10)02	GNSS Repeater			
5.331	5.335A				EN 302 645	
5.335 5.335A			Radar and Navigation systems			
			Wind profiler radars			Within the band 1270-1295 MHz
1300 - 1350 MHz						
AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION 5.337		Defence systems			
RADIOLOCATION RADIONAVIGATION-SATELLITE (E/S)	RADIOLOCATION RADIONAVIGATION-SATELLITE (E/S)		Radar and Navigation systems			
5.149	5.149 EU2 5.337A		Radio astronomy			Spectral line observations in 1330- 1400 MHz
5.337A	5.337A		Satellite Navigation systems			
1350 - 1400 MHz						
FIXED	FIXED		Defence systems	EU15A		
MOBILE RADIOLOCATION	MOBILE RADIOLOCATION	T/R 13-01	Low capacity fixed links		EN 302 217	
5.149 5.338	5.149 EU2 5.338A EU15		Radio astronomy			Spectral line observations in 1330- 1400 MHz
5.338A	5.339					

5.339

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1400 - 1427 MHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	ECC/DEC/(11)01	Passive sensors (satelli	te)		Measurement of soil moisture, salinity, ocean surface temperature, vegetation index
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
5.340	5.340					
5.341	5.341					
1427 - 1429 MHz						
FIXED	FIXED		Defence systems	EU15A		
MOBILE except aeronautical mobile SPACE OPERATION (E/S)	MOBILE except aeronautical mobile SPACE OPERATION (E/S)	T/R 13-01	Low capacity fixed links		EN 302 217	
5.338A	5.341 EU2					
5.341	5.338A EU15					
1429 - 1452 MHz						
FIXED	FIXED		Defence systems	EU15A		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	T/R 13-01	Low capacity fixed links		EN 302 217	
5.338A	5.341 EU2					
5.341	5.338A EU15					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1452 - 1492 MHz						
BROADCASTING 5.345	BROADCASTING 5.345	ECC/DEC/(03)02	S-DAB			Within the band 1479.5-1492.0 MHz
BROADCASTING-SATELLITE 5.208B 5.345	BROADCASTING-SATELLITE 5.208B 5.345		T-DAB		EN 302 077	Within the band 1452.0-1479.5 MHz.
FIXED	Fixed					Maastricht 2002 Special Arrangement, as revised in
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile					Constanta, 2007
5.341	5.341					
5.342	5.342					
1492 - 1518 MHz						
FIXED	FIXED		Defence systems	EU15A		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	T/R 13-01	Low capacity fixed links		EN 302 217	
5.341	5.341 EU2					
5.342	EU15					
1518 - 1525 MHz						
FIXED	FIXED		Defence systems	EU15A		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile					
MOBILE-SATELLITE (S/E) 5.348 5.348A 5.348B 5.351A	MOBILE-SATELLITE (S/E) 5.348 5.348A 5.348B 5.351A		IMT Satellite component			
5.341	5.341 EU2	ECC/DEC/(04)09	Mobile satellite application	ons		
5.342	EU15	ECC/DEC/(07)04				
		ECC/DEC/(07)05				
			Unidirectional fixed links		EN 302 217	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1525 - 1530 MHz						
FIXED	FIXED		IMT Satellite component			
MOBILE-SATELLITE (S/E) 5.208B 5.351A SPACE OPERATION (S/E)	MOBILE-SATELLITE (S/E) 5.208B 5.351A SPACE OPERATION (S/E)	ECC/DEC/(07)04 ECC/DEC/(07)05	Mobile satellite application	s	EN 301 426 EN 301 444	
Earth exploration-satellite	or riol or literation (o/L)	LCC/DLC/(01)03			EN 301 473	
Mobile except aeronautical mobile 5.349					EN 301 681	
5.341	5.341		Unidirectional fixed links		EN 302 217	
5.342	5.351					
5.350	5.354					
5.351						
5.352A						
5.354						
1530 - 1533 MHz						
MOBILE-SATELLITE (S/E) 5.208B 5.351A 5.353A	MOBILE-SATELLITE (S/E) 5.208B 5.351A 5.353A		IMT Satellite component			
SPACE OPERATION (S/E)	SPACE OPERATION (S/E)	ECC/DEC/(07)04	Mobile satellite application	S	EN 301 426	Priority for GMDSS Distress,
Earth exploration-satellite	Earth exploration-satellite	ECC/DEC/(07)05				urgency and safety and for AMS(R)S categories 1 to 6
Fixed	Fixed				EN 301 473	communications
Mobile except aeronautical mobile	Mobile except aeronautical mobile				EN 301 681	
5.341	5.341					
5.342	5.351					
5.351	5.354					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1533 - 1535 MHz						
MOBILE-SATELLITE (S/E) 5.208B 5.351A 5.353A	MOBILE-SATELLITE (S/E) 5.208B 5.351A 5.353A		IMT Satellite component			
SPACE OPERATION (S/E)	SPACE OPERATION (S/E)	ECC/DEC/(07)04	Mobile satellite application	s	EN 301 426	Priority for GMDSS Distress,
Earth exploration-satellite	Earth exploration-satellite	ECC/DEC/(07)05			EN 301 444	urgency and safety and for AMS(R)S categories 1 to 6
Fixed	Mobile except aeronautical mobile				EN 301 473	communications
Mobile except aeronautical mobile					EN 301 681	
5.341	5.341					
5.342	5.351					
5.351	5.354					
5.354						
1535 - 1544 MHz						
MOBILE-SATELLITE (S/E) 5.208B 5.351A	MOBILE-SATELLITE (S/E) 5.208B 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite application	S	EN 301 426	Priority for GMDSS Distress,
5.341	5.341	ECC/DEC/(07)05			EN 301 444	urgency and safety and for AMS(R)S categories 1 to 6
5.351	5.351				EN 301 473	communications
5.353A	5.353A				EN 301 681	
5.354	5.354					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1544 - 1545 MHz						
MOBILE-SATELLITE (S/E) 5.208B	MOBILE-SATELLITE (S/E) 5.208B	ECC/REC/(10)03	Distress and safety communications (incl GMDSS)			
5.341	5.341		IMT Satellite component			
5.354	5.354					
5.355	5.356		Mobile satellite application	S	EN 301 426	Limited to distress communications
5.356					EN 301 473 EN 301 681	
5.357					EIN 301 001	
5.357A						
1545 - 1555 MHz						
MOBILE-SATELLITE (S/E) 5.208B 5.351A	MOBILE-SATELLITE (S/E) 5.208B 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite application	s	EN 301 426	
5.341	5.341	ECC/DEC/(07)05			EN 301 473	
5.351	5.351				EN 301 681	
5.354	5.354					
5.355	5.357					
5.357	5.357A					
5.357A	5.359					
5.359						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1555 - 1559 MHz						
MOBILE-SATELLITE (S/E) 5.208B 5.351A	MOBILE-SATELLITE (S/E) 5.208B 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite application	ıs	EN 301 426	
5.341	5.341	ECC/DEC/(07)05			EN 301 444	
5.351	5.351				EN 301 473	
5.354	5.354				EN 301 681	
5.355	5.359					
5.359						
5.362A						
1559 - 1610 MHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		Galileo			Within the band 1559.42-1591.42 MHz
RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.208B 5.328B 5.329A	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.208B 5.328B 5.329A		GLONASS			Within the band 1592.9-1610.5 MHz.
5.341	5.341	ECC/REC/(11)08	GNSS Pseudolites			
5.362B	5.362B					
5.362C		ECC/REC/(10)02	GNSS Repeater		EN 302 645	
			GPS			Within the band 1563.42-1587.42

MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes	
1610 - 1610 6 MHz							

1610 - 1610.6 MHz

AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	GLONASS			Within the band 1592.9-1610.5 MHz
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component		
5.341	5.341				
5.355	5.359	ECC/DEC/(07)04	Mobile satellite applications	EN 301 441	
5.359	5.364	ECC/DEC/(07)05		EN 301 473	
5.364	5.366	ECC/DEC/(09)02			
5.366	5.367				
5.367	5.368				
5.368	5.371				
5.369	5.372				
5.371					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1610.6 - 1613.8 MHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		IMT Satellite component			
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	ECC/DEC/(07)04	Mobile satellite applications	S	EN 301 441	
RADIO ASTRONOMY	RADIO ASTRONOMY	ECC/DEC/(07)05			EN 301 473	
5.149	5.149	ECC/DEC/(09)02				
5.341	5.341					
5.355	5.359		Radio astronomy			Spectral line observations
5.359	5.364					
5.364	5.366					

5.366

5.367

5.368

5.369 5.371 5.372 5.367

5.368

5.371

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
1613.8 - 1626.5 MHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		IMT Satellite component			
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	ECC/DEC/(07)04	Mobile satellite applications	S	EN 301 426	
Mobile-satellite (S/E) 5.208B	Mobile-satellite (S/E) 5.208B	ECC/DEC/(07)05			EN 301 441	
5.341	5.341	ECC/DEC/(09)02			EN 301 473	
5.355	5.359	ECC/DEC/(09)04				
5.359	5.364					
5.364	5.365					
5.365	5.366					
5.366	5.367					
5.367	5.368					
5.368	5.371					
5.369	5.372					
5.371						
5.372						
1626.5 - 1631.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite applications	s	EN 301 426	Priority for GMDSS Distress,
5.341	5.341	ECC/DEC/(07)05			EN 301 473	urgency and safety and for AMS(R)S categories 1 to 6
5.351	5.351					communications
5.353A	5.353A					
5.354	5.354					
5.355	5.359					
5.359						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1631.5 - 1636.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite applications	S	EN 301 426	Priority for GMDSS Distress,
5.341	5.341	ECC/DEC/(07)05			EN 301 444	urgency and safety and for AMS(R)S categories 1 to 6
5.351	5.351				EN 301 473	communications
5.353A	5.353A				EN 301 681	
5.354	5.354					
5.355	5.359					
5.359	5.374					
5.374						
1636.5 - 1645.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite applications	S	EN 301 426	Priority for GMDSS Distress,
5.341	5.341	ECC/DEC/(07)05			EN 301 473	urgency and safety and for AMS(R)S categories 1 to 6
5.351	5.351				EN 301 681	communications
5.353A	5.353A					
5.354	5.354					
5.355	5.359					
5.359						
1645.5 - 1646.5 MHz						
MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)	ECC/REC/(10)03	Mobile satellite applications	S	EN 301 426	Distress and safety communications
- · · ·- (-, -,	(2,0)	,(.0,00	applications	-	EN 301 473	(incl GMDSS)
					EN 301 681	
5.341	5.341					
5.354	5.354					
5.375	5.375					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1646.5 - 1656.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite applications	s	EN 301 426	
5.341	5.341	ECC/DEC/(07)05			EN 301 473	
5.351	5.351				EN 301 681	
5.354	5.354					
5.355	5.357A					
5.357A	5.359					
5.359	5.376					
5.376						
1656.5 - 1660 MHz						
	MODULE 04 TELLITE (F/0) 5 0544		IMT O A III			
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component			
		ECC/DEC/(07)04	Mobile satellite applications	s	EN 301 426	
5.341	5.341	ECC/DEC/(07)05			EN 301 444	
5.351	5.351				EN 301 473	
5.354	5.354				EN 301 681	
5.355	5.359					
5.359	5.374					
5.362A						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1660 - 1660.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		IMT Satellite component			
RADIO ASTRONOMY	RADIO ASTRONOMY	ECC/DEC/(07)04	Mobile satellite applicatio	nne	EN 301 426	
5.149	5.149 EU15	ECC/DEC/(07)05	wobile satellite applicatio) i i i	EN 301 444	
5.341	5.341	(-)			EN 301 473	
5.351	5.351				EN 301 681	
5.354	5.354		Padia astronomy			Continuum line and VLBI
5.362A	5.376A		Radio astronomy			observations
5.376A						
1660.5 - 1668 MHz						
RADIO ASTRONOMY	RADIO ASTRONOMY		Defence systems	EU15A		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		Dadia astronomy			Continuum line and VI DI
Fixed	Fixed		Radio astronomy			Continuum line and VLBI observations
Mobile except aeronautical mobile	Mobile except aeronautical mobile					
5.149	5.149 EU2					
5.341	5.341 EU15 5.379A					
5.379 5.379A	3.37 9 A					
1668 - 1668.4 MHz						
MOBILE-SATELLITE (E/S) 5.351A 5.379B 5.379C	MOBILE-SATELLITE (E/S) 5.351A 5.379B 5.379C		Defence systems			
RADIO ASTRONOMY	RADIO ASTRONOMY		IMT Satellite component			
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		Radio astronomy			Continuum line and VI PI
Fixed	Fixed		Raulo astronomy			Continuum line and VLBI observations
Mobile except aeronautical mobile	Mobile except aeronautical mobile					
5.149	5.149 EU15					
5.341	5.341					
5.379	5.379A					
5.379A						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1668.4 - 1670 MHz						
FIXED	FIXED		Defence systems	EU15A		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS					
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		IMT Satellite compone	nt 		
MOBILE-SATELLITE (E/S) 5.351A 5.379B 5.379C	MOBILE-SATELLITE (E/S) 5.351A 5.379B 5.379C		Meteorology			
RADIO ASTRONOMY	RADIO ASTRONOMY		Radio astronomy			Continuum line and VLBI
5.149	5.149 EU2					observations
5.341	5.341 EU15					
5.379D	5.379D					
5.379E	5.379E					
1670 - 1675 MHz						
FIXED	METEOROLOGICAL AIDS		IMT Satellite compone	nt		
METEOROLOGICAL AIDS	METEOROLOGICAL-SATELLITE					
METEOROLOGICAL-SATELLITE (S/E)	(S/E) MOBILE		Meteorological Satellite	9S 		
MOBILE	MOBILE-SATELLITE (E/S) 5.351A	ECC/DEC/(04)09	Mobile satellite applications (E/S)			
MOBILE-SATELLITE (E/S) 5.351A 5.379B	5.379B Fixed	ECC/DEC/(07)04				
5.341	5.341	ECC/DEC/(07)05				
5.379D	5.379D					
5.379E	5.379E					
5.380A	5.380A					
1675 - 1690 MHz						
FIXED	FIXED		Defence systems	EU15A		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS					
METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)				EN 302 454	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		Meteorological Satellite	es 		Data collection platform
5.341	5.341 EU2					
	EU15					

				Standard	Notes
1690 - 1700 MHz					
METEOROLOGICAL AIDS METEOROLOGICAL AIDS		Defence systems	EU15A		
METEOROLOGICAL-SATELLITE (S/E) (S/E) (S/E) Fixed Fixed		Meteorological Satellite	S		Data collection platform. Allocation to EESS is via RR 5.289
Mobile except aeronautical mobile Mobile except aeronautical mobile					
5.289 5.289 EU2					
5.341 EU15					
5.382 5.382					
1700 - 1710 MHz					
FIXED FIXED		Defence systems	EU15A		
METEOROLOGICAL-SATELLITE METEOROLOGICAL-SATELLITE (S/E)		Meteorological Satellite	 S		Data collection platform.
MOBILE except aeronautical mobile Mobile except aeronautical mobile					Allocation to EESS is via RR 5.289
5.289 5.289 EU2					
5.341 EU15					
1710 - 1785 MHz					
FIXED FIXED	ECC/REC/(05)08	GSM-1800	EU33	EN 301 502	
MOBILE 5.384A MOBILE 5.384A	ERC/DEC/(95)03			EN 301 511	
5.149 5.149 EU29	ECC/DEC/(06)13	IMT		EN 301 908	
5.341 5.341	ECC/REC/(08)02				
5.385 5.385	FOC/DEC//00/07	NACA		EN 200 400	
5.386	ECC/DEC/(06)07	MCA		EN 302 480	
5.387	ECC/DEC/(08)08	MCV			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1785 - 1800 MHz						
FIXED	FIXED		_			This band is identified for IMT in the
MOBILE 5.384A	MOBILE					RRs, but within CEPT this band is not planned for the harmonised introduction of IMT
5.386 5.387	EU2 EU15		Mobile applications			
		ERC/REC 70-03	Radio microphones a Assistive Listening d		EN 300 422	
		ERC/REC 70-03	Wireless Audio		EN 300 422	Within the band 1795-1800 MHz
1800 - 1805 MHz						
FIXED MOBILE 5.384A	MOBILE Fixed		-			This band is identified for IMT in the RRs, but within CEPT this band is not planned for the harmonised
5.386						introduction of IMT
1805 - 1880 MHz						
FIXED	FIXED	ECC/REC/(05)08	GSM-1800	EU33	EN 301 502	
MOBILE 5.384A	MOBILE 5.384A	ERC/DEC/(95)03			EN 301 511	
5.386	EU29	ECC/DEC/(06)13	IMT		EN 301 908	
		ECC/REC/(08)02				
		ECC/DEC/(06)07	MCA		EN 302 480	
		ECC/DEC/(08)08	MCV			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1880 - 1885 MHz						
FIXED	MOBILE 5.384A	ERC/DEC/(94)03	DECT	EU33	EN 301 406	
MOBILE 5.384A	Fixed				EN 301 908	
	EU33					
1885 - 1900 MHz						
FIXED	MOBILE 5.388A	ERC/DEC/(94)03	DECT	EU33	EN 301 406	
MOBILE 5.388A 5.388B	Fixed				EN 301 908	
5.388	5.388 EU33					
1900 - 1930 MHz						
FIXED	MOBILE 5.388A					This band can also be used by fixed
MOBILE 5.388A 5.388B	Fixed		-			service on a national basis
5.388	5.388 EU29	ECC/DEC/(06)01 ERC/REC/(01)01	IMT		EN 301 908	Within CEPT, this band is identified for IMT. This includes IMT-2000 and IMT-Advanced
1930 - 1970 MHz						
FIXED	MOBILE 5.388A					This hand can also be used by five d
MOBILE 5.388A 5.388B	MOBILE 5.388A Fixed		-			This band can also be used by fixed service on a national basis
5.388	5.388 EU29	ECC/DEC/(06)01 ERC/REC/(01)01	IMT		EN 301 908	Within CEPT, this band is identified for IMT. This includes IMT-2000 and IMT-Advanced

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
1970 - 1980 MHz						
FIXED	MOBILE 5.388A		-			This band can also be used by fixed
MOBILE 5.388A 5.388B	Fixed					service on a national basis
5.388	5.388 EU29	ECC/DEC/(06)01 ERC/REC/(01)01	IMT		EN 301 908	Within CEPT, this band is identified for IMT. This includes IMT-2000 and IMT-Advanced
1980 - 2010 MHz						
FIXED	MOBILE		-			This band can also be used by fixed service on a national basis
MOBILE	MOBILE-SATELLITE (E/S) 5.351A					
MOBILE-SATELLITE (E/S) 5.351A	Fixed		IMT			Within CEPT, this band is identified for IMT. This includes IMT-2000 and
5.388 5.389A	5.388 5.389A					IMT-Advanced
5.389B	0.00071	ECC/DEC/(06)09	Mobile satellite applicatio	ns	EN 301 442	The mobile satellite systems using
5.389F		ECC/DEC/(06)10			EN 301 473	this band may incorporate a CGC
		ECC/DEC/(07)04			EN 302 574	
		ECC/DEC/(07)05				
2010 - 2025 MHz						
FIXED	MOBILE 5.388A		-			This band can also be used by fixed
MOBILE 5.388A 5.388B	Fixed					service on a national basis
5.388	5.388 EU29	ECC/DEC/(06)01 ERC/REC/(01)01	IMT		EN 301 908	Within CEPT, this band is identified for IMT. This includes IMT-2000 and IMT-Advanced

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2025 - 2110 MHz						
EARTH EXPLORATION-SATELLITE (E/S) (S/S) FIXED MOBILE 5.391	EARTH EXPLORATION- SATELLITE (E/S) (S/S) FIXED MOBILE 5.391		Defence systems	EU16A		Harmonised military band for Tactical Radio Relay links for near cross border operation within the band 2025-2070 MHz
SPACE OPERATION (E/S) (S/S)	SPACE OPERATION (E/S) (S/S)	T/R 13-01	Fixed links		EN 302 217	
SPACE RESEARCH (E/S) (S/S) 5.392	SPACE RESEARCH (E/S) (S/S) 5.392 EU2	ERC/REC 25-10	SAP/SAB	EU16A	EN 302 064	On a tuning range
0.002	EU15 EU27		Space Research/EES	S		Satellite payload and platform telecommand
2110 - 2120 MHz						
FIXED MOBILE 5.388A 5.388B SPACE RESEARCH (deep space) (E/S)	MOBILE 5.388A SPACE RESEARCH (deep space) (E/S) Fixed		-			Satellite payload and platform telecommand for space research (deep space). This band can also be used by fixed service on a national basis
5.388	5.388 EU29	ECC/DEC/(06)01 ERC/REC/(01)01	IMT		EN 301 908	Within CEPT, this band is identified for IMT. This includes IMT-2000 and IMT-Advanced
2120 - 2170 MHz						
FIXED MOBILE 5.388A 5.388B	MOBILE 5.388A Fixed		-			This band can also be used by fixed service on a national basis
5.388	5.388 EU29	ECC/DEC/(06)01 ERC/REC/(01)01	IMT		EN 301 908	Within CEPT, this band is identified for IMT. This includes IMT-2000 and IMT-Advanced

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2170 - 2200 MHz						
FIXED	MOBILE		-			This band can also be used by fixed
MOBILE	MOBILE-SATELLITE (S/E) 5.351/	4				service on a national basis
MOBILE-SATELLITE (S/E) 5.351A	Fixed		IMT Satellite component	t		Within CEPT, this band is identified
5.388	5.388					for IMT. This includes IMT-2000 and IMT-Advanced
5.389A 5.389F	! !	ECC/DEC/(06)09 ECC/DEC/(06)10 ECC/DEC/(07)04 ECC/DEC/(07)05 ECC/REC/(10)01	Mobile satellite applicati	ons	EN 301 442 EN 301 473 EN 302 574	The mobile satellite systems using this band may incorporate a Complementary Ground Component (CGC)
2200 - 2290 MHz						
EARTH EXPLORATION-SATELLITE (S/E) (S/S) FIXED	EARTH EXPLORATION- SATELLITE (S/E) (S/S) FIXED		Defence systems	EU16A		Harmonised military band for Tactical Radio Relay links for near cross border operation within the
MOBILE 5.391	MOBILE 5.391					band 2200-2245 MHz
SPACE OPERATION (S/E) (S/S)	SPACE OPERATION (S/E) (S/S)	T/R 13-01	Fixed links		EN 302 217	
SPACE RESEARCH (S/E) (S/S) 5.392	SPACE RESEARCH (S/E) (S/S) 5.392 EU15		Radio astronomy			Continuum line and VLBI observations
	EU27	ERC/REC 25-10	SAP/SAB	EU16A	EN 302 064	On a tuning range
		ECC/REC/(10)01	Space Research/EESS			Satellite payload and platform telemetry
2290 - 2300 MHz						
FIXED	FIXED		Mobile applications			
MOBILE except aeronautical mobile	MOBILE except aeronautical mobi	ile				
SPACE RESEARCH (deep space) (S/E)	SPACE RESEARCH (deep space (S/E)		Space Research (deep space)			Satellite payload and platform telemetry for space research (deep space)

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2300 - 2400 MHz						
FIXED	FIXED	ERC/REC 62-02	Aeronautical Telemetry			Parts of the band are used for
MOBILE 5.384A	MOBILE		·			aeronautical telemetry on a national basis
Amateur	Amateur					D4313
Radiolocation	Radiolocation		Amateur		EN 301 783	
5.395	EU2		Mobile applications			
		ERC/REC 25-10	SAP/SAB		EN 302 064	
2400 - 2450 MHz						
FIXED	FIXED		Amateur		EN 301 783	
MOBILE	MOBILE					
Amateur	Amateur-satellite		Amateur Satellite			
Radiolocation	Radiolocation		ISM			
5.150 5.282	5.150 EU2 5.282	ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 2400.0-2483.5 MHz
		EDC/DEC/(04)00	De die determeinetien		EN 200 440	With: 4h a hand 2400 0 2402 5 MI
		ERC/DEC/(01)08 ERC/REC 70-03	Radiodetermination applications		EN 300 440	Within the band 2400.0-2483.5 MHz
		ERC/REC 70-03	Railway applications		EN 300 761	Within the band 2446-2454 MHz for AVI applications
		ERC/REC 70-03	RFID		EN 300 440	Within the band 2446-2454 MHz
		ERC/DEC/(01)07 ERC/REC 70-03	Wideband Data Transmission Systems		EN 300 328	Within the band 2400-2483.5 MHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2450 - 2483.5 MHz						
FIXED	FIXED		ISM			
MOBILE	MOBILE	FDC/DFC 70.00	New Constitution		FN 200 440	Within the heart 0400 0 0400 5 MHz
Radiolocation		ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 2400.0-2483.5 MHz
5.150	5.150 EU2	ERC/DEC/(01)08	Radiodetermination		EN 300 440	Within the band 2400.0-2483.5 MHz
5.397		ERC/REC 70-03	applications			
		ERC/REC 70-03	Railway applications		EN 300 761	Within the band 2446-2454 MHz for AVI applications
		ERC/REC 70-03	RFID		EN 300 440	Within the band 2446-2454 MHz
		ERC/DEC/(01)07	Wideband Data		EN 300 328	Within the band 2400-2483.5 MHz
		ERC/REC 70-03	Transmission Systems			
2483.5 - 2500 MHz						
FIXED	FIXED	ERC/REC 70-03	Active medical implants			
MOBILE	MOBILE		IMT Satellite component			
MOBILE-SATELLITE (S/E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A					
Radiolocation			ISM			
5.150	5.150 5.371		Mobile applications			
5.371 5.397	5.398					
5.398	5.402	ECC/DEC/(07)04	Mobile satellite application	ns	EN 301 441	
5.399	-	ECC/DEC/(07)05			EN 301 473	
5.400		ECC/DEC/(09)02				
5.402		ERC/REC 25-10	SAP/SAB		EN 302 064	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2500 - 2520 MHz						
FIXED 5.410	MOBILE except aeronautical	ECC/DEC/(02)06	IMT		EN 301 908	
MOBILE except aeronautical mobile	mobile 5.384A Fixed	ECC/DEC/(05)05			EN 302 544	
5.384A 5.405	Tived	ECC/REC/(11)05				
5.412		ECC/REC/(11)05	MFCN			
2520 - 2655 MHz						
BROADCASTING-SATELLITE 5.413	FIXED		Defence systems			Within the band 2520-2575 MHz
5.416 FIXED 5.410	MOBILE except aeronautical mobile 5.384A	ECC/DEC/(02)06	IMT		EN 301 908	
MOBILE except aeronautical mobile 5.384A		ECC/DEC/(05)05			EN 302 544	
5.339	5.339 EU2	ECC/REC/(11)05				
5.403	5.418B EU15	ERC/REC 25-10	SAP/SAB		EN 302 064	On a tuning range basis
5.405	5.418C EU16					

5.412 5.417C 5.417D 5.418B 5.418C

Record MHz Record Number RixED	RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocat	ECC/ERC harmonisation tion measures	Application	European footnotes	Standard	Notes
S.208 B.413 6.416 MOBILE except aeronautical mobile Enable problem	2655 - 2670 MHz						
Radio astronomy Space research (passive) Sape research (passive)	5.208B 5.413 5.416 FIXED 5.410 MOBILE except aeronautical mobile	MOBILE except aeronautica mobile 5.384A Earth exploration-satellite (p	ECC/DEC/(05)05 ECC/REC/(11)05				
Space research (passive)	Earth exploration-satellite (passive)	•					
FIXED 5.410 MOBILE except aeronautical mobile 5.384A Fixed Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) SPACE RESEARCH (passive) 5.340 MOBILE except aeronautical mobile book in mobile 5.384A Fixed ECC/DEC/(05)05 ECC/REC/(11)05 EARTH EXPLORATION-SATELLITE (passive) SATELLITE (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) 5.340	5.149 5.412	5.208B EU15					5 5
MOBILE except aeronautical mobile 5.384Á Fixed ECC/DEC/(05)05 EN 302 544 Fixed Earth exploration-satellite (passive) Radio astronomy Radio astronomy Radio astronomy Radio astronomy Space research (passive) 5.149 5.412 5.419 2690 - 2700 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 SPACE RESEARCH (passive) 5.340 Fixed ECC/DEC/(05)05 EN 302 544 ECC/REC/(11)05 Radio astronomy Continuum observations Passive sensors (satellite) Passive sensors (satellite) Passive sensors (satellite) Passive sensors (satellite)	2670 - 2690 MHz						
Radio astronomy Space research (passive) 5.149 5.412 5.419 2690 - 2700 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIO ASTRONOMY SPACE RESEARCH (passive) SPACE RESEARCH (passive) 5.340 Space research (passive) Radio astronomy Radio astronomy Continuum observations Passive sensors (satellite) Satellite (passive) Space research (passive)	MOBILE except aeronautical mobile 5.384A	mobile 5.384A Fixed	ECC/DEC/(05)05	IMT			
5.149 5.412 5.419 2690 - 2700 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.149 5.149 Passive sensors (satellite) SATELLITE (passive)	Radio astronomy	,		•			Continuum observations
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 EARTH EXPLORATION- Passive sensors (satellite) Passive sensors (satellite) SATELLITE (passive)	5.149 5.412	5.149					
(passive)SATELLITE (passive)RADIO ASTRONOMYRADIO ASTRONOMYSPACE RESEARCH (passive)SPACE RESEARCH (passive)5.3405.340	2690 - 2700 MHz						
5.340 5.340	(passive)	SATELLITE (passive)		Passive sensors (satellite)		
<u>ገ ዛ//</u>			ive)				

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
2700 - 2900 MHz						
AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423 5.424	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423	ECC/REC/(02)09	Meteorological radars Radar and Navigation systems			
2900 - 3100 MHz						
RADIOLOCATION 5.424A	RADIOLOCATION 5.424A		Defence systems			
RADIONAVIGATION 5.426	RADIONAVIGATION 5.426		Radar and Navigation		EN 302 248	
5.425	5.425 EU2		systems		EN 302 752	
5.427	5.427 EU27					
3100 - 3300 MHz						
RADIOLOCATION	RADIOLOCATION		Active sensors (satellite)			
Earth exploration-satellite (active) Space research (active)	Earth exploration-satellite (active)	ve)	Defence systems			
5.149	5.149 EU2		Radars			
5.428	EU27	ECC/DEC/(06)04 ECC/DEC/(06)12 ECC/REC/(11)09 ECC/REC/(11)10	UWB		EN 302 065	Generic UWB. Location Tracking Type 2 (LT2). Location Application for Emergency Services (LAES)

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
3300 - 3400 MHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			
			Radars			Upper limit for airborne radars 3410
5.149	5.149 EU2					MHz
5.429 5.430		ECC/DEC/(06)04 ECC/DEC/(06)12 ECC/REC/(11)09 ECC/REC/(11)10	UWB		EN 302 065	Generic UWB. Location Tracking Type 2 (LT2). Location Application for Emergency Services (LAES)
3400 - 3500 MHz						
FIXED FIXED-SATELLITE (S/E)	FIXED FIXED-SATELLITE (S/E)		Amateur	EU17	EN 301 783	EU 17 within the band 3400-3410 MHz
Mobile 5.430A	MOBILE 5.430A	ECC/DEC/(07)02	BWA		EN 302 217	Within the band 3400-3800 MHz
Radiolocation	Amateur	ECC/REC/(04)05			EN 302 326	
	Radiolocation	ERC/REC 14-03			EN 302 623	
5.431			FSS		EN 301 443	
			IMT			This band is planned for future mobile applications (IMT), based on the provisions of the Radio Regulations
			Mobile applications		EN 302 064	For coordinated SAB/SAP applications for occasional use. In some countries the mobile service may be on secondary basis
			Radars			Upper limit for airborne radars is 3410 MHz
		ECC/DEC/(06)04 ECC/DEC/(06)12 ECC/REC/(11)09 ECC/REC/(11)10	UWB		EN 302 065	Generic UWB. Location Tracking Type 2 (LT2). Location Application for Emergency Services (LAES)

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
3500 - 3600 MHz						
FIXED	FIXED	ECC/DEC/(07)02	BWA		EN 302 217	Within the band 3400-3800 MHz
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	ECC/REC/(04)05			EN 302 326	
Mobile 5.430A	MOBILE 5.430A	ERC/REC 14-03			EN 302 623	
Radiolocation			FSS		EN 301 443	
			IMT			This band is planned for future mobile applications (IMT), based on the provisions of the Radio Regulations
			Mobile applications		EN 302 064	For coordinated SAB/SAP applications for occasional use. In some countries the mobile service may be on secondary basis
		ECC/DEC/(06)04 ECC/DEC/(06)12 ECC/REC/(11)09 ECC/REC/(11)10	UWB		EN 302 065	Generic UWB. Location Tracking Type 2 (LT2). Location Application for Emergency Services (LAES)
3600 - 3800 MHz						
FIXED FIXED-SATELLITE (S/E)	FIXED FIXED-SATELLITE (S/E)		-			In some countries the mobile service may be on secondary basis
Mobile	MOBILE	ECC/DEC/(07)02	BWA		EN 302 217	Within the band 3400-3800 MHz
		ECC/REC/(04)05			EN 302 326	
		ECC/DEC/(05)09	FSS		EN 301 443	Priority for civil networks
					EN 301 447	
		ERC/REC 12-08	Medium/high capacity fixed links	d	EN 302 217	
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB.
		ECC/DEC/(06)12				Location Tracking Type 2 (LT2). Location Application for Emergency
		ECC/REC/(11)09				Services (LAES)
		ECC/REC/(11)10				

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
3800 - 4200 MHz						
FIXED	FIXED	ECC/DEC/(05)09	FSS		EN 301 443	Priority for civil networks
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				EN 301 447	
Mobile		ERC/REC 12-08	Medium/high capacity fixed links	d	EN 302 217	
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB.
		ECC/DEC/(06)12				Location Tracking Type 2 (LT2). Location Application for Emergency
		ECC/REC/(11)09				Services (LAES)
		ECC/REC/(11)10				
4200 - 4400 MHz						
AERONAUTICAL RADIONAVIGATION 5.438	AERONAUTICAL RADIONAVIGATION 5.438		Altimeters			
			Passive sensors (satellite)			For sea surface temperature measurements
5.439	5.440 EU18					
5.440		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB. Location Tracking Type 2 (LT2).
		ECC/DEC/(06)12				Location Application for Emergency
		ECC/REC/(11)09				Services (LAES)
		ECC/REC/(11)10				
4400 - 4500 MHz						
FIXED	FIXED		Defence systems	EU20		Harmonised military band for fixed
MOBILE	MOBILE					and mobile systems
	EU2		Mobile applications		EN 302 064	For coordinated SAB/SAP applications for occasional use
	EU27	ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB.
		ECC/DEC/(06)12				Location Tracking Type 2 (LT2). Location Application for Emergency
		ECC/REC/(11)09				Services (LAES)
		ECC/REC/(11)10				

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
4500 - 4800 MHz						
FIXED FIXED-SATELLITE (S/E) 5.441	FIXED FIXED-SATELLITE (S/E) 5.441		Defence systems	EU20		Harmonised military band for fixed and mobile systems
MOBILE	MOBILE EU27		FSS			FSS not to be implemented in NATO Europe. Fixed-Satellite frequency plan in 4500-4800 MHz
			Mobile applications		EN 302 064	For coordinated SAB/SAP applications for occasional use
		ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
		ECC/DEC/(06)04 ECC/DEC/(06)12 ECC/REC/(11)09 ECC/REC/(11)10	UWB		EN 302 065	Generic UWB. Location Tracking Type 2 (LT2). Location Application for Emergency Services (LAES)
4800 - 4990 MHz						
FIXED MOBILE 5.442	FIXED MOBILE except aeronautical mobile	ECC/REC/(08)04	BBDR		EN 302 625	Within the band 4940-4990 MHz. Optinal band for BBDR within the PPDR uses
Radio astronomy 5.149 5.339	Radio astronomy 5.149 EU27 5.339		Defence systems	EU20		Harmonised military band for fixed and mobile systems
5.443	5.559		Mobile applications		EN 302 064	For coordinated SAB/SAP applications for occasional use
			Passive sensors (satell	ite)		Space Research and EESS (passive) above 4950 MHz in some countries
			Radio astronomy			Continuum observations and VLBI
		ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
4000 5000 1111						
4990 - 5000 MHz						
FIXED	FIXED		Defence systems	EU20		Harmonised military band for fixed
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile					and mobile systems
RADIO ASTRONOMY	RADIO ASTRONOMY		Mobile applications			For coordinated SAB/SAP
Space research (passive)						applications for occasional use
5.149	5.149 EU27		Radio astronomy			Continuum observation and VLBI
		ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz TLPR application
5000 - 5010 MHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		Galileo			For future use by Galileo
RADIONAVIGATION-SATELLITE (E/S)	RADIONAVIGATION-SATELLITE (E/S)		Radio astronomy			Continuum observation and VLBI
, ,	Radio astronomy	ERC/REC 70-03	Radiodetermination		EN 302 372	Within the band 4500-7000 MHz
	Space research (passive)		applications			TLPR application
5.367	5.367		Satellite Navigation			Aeronautical Radionavigation and

systems

FSS envisaged in some countries

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
5010 - 5030 MHz							
AERONAUTICAL RADIONAVIGATION	AERONA RADION	AUTICAL AVIGATION		Galileo C1			
RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328B 5.443B		AVIGATION-SATELLITE S) 5.328B 5.443B		Radio astronomy			VLBI observations
	Radio ast Space re	tronomy search (passive)	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz TLPR application
5.367	5.367			Satellite Navigation systems			Aeronautical Radionavigation and FSS envisaged in some countries
5030 - 5091 MHz							
AERONAUTICAL RADIONAVIGATION	AERONA RADIONA	AUTICAL AVIGATION		MLS			Aeronautical Radionavigation envisaged in some countries. FSS in use in some countries
5.367 5.444	5.367 5.444	EU18	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz TLPR application
5091 - 5150 MHz							
AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE 5.444B	AERONA RADIONA	AUTICAL AVIGATION		MLS			Aeronautical Radionavigation envisaged in some countries. FSS in use in some countries
5.367 5.444	5.367 5.444	EU18	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz TLPR application

5.444A

5.444A

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5150 - 5250 MHz							
AERONAUTICAL	FIXED-SA	TELLITE (E/S) 5.447A		Aeronautical telemetry			
RADIONAVIGATION FIXED-SATELLITE (E/S) 5.447A		except aeronautical 146A 5.446B		transmission			
MOBILE except aeronautical mobile 5.446A 5.446B		140A 3.440B	ECC/REC/(08)04	BBDR		EN 302 625	Optinal band for BBDR within the PPDR uses
5.446	5.446			Feeder links for MSS			Aeronautical Radionavigation and
5.446C	5.446C						FSS envisaged in some countries
5.447	5.447		ERC/REC 70-03	Radiodetermination		EN 302 372	Within the band 4500-7000 MHz for
5.447B	5.447B			applications			TLPR application
5.447C	5.447C		ECC/DEC/(04)08	WAS/RLANS		EN 301 893	Within the bands 5150-5350 and
			ERC/REC 70-03				5470-5725 MHz
5250 - 5255 MHz							
EARTH EXPLORATION-SATELLITE (active)	EARTH E	XPLORATION- E (active)		Active sensors (satellite)			
MOBILE except aeronautical mobile 5.446A 5.447F	MOBILE 6	except aeronautical 146A 5.447F		Defence systems			Tactical and weapon system radars
RADIOLOCATION	RADIOLO	CATION		Position fixing			
SPACE RESEARCH 5.447D	SPACE R	ESEARCH 5.447D					
5.447E	5.448A	EU2	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
5.448		EU22					
5.448A				Shipborne and VTS radar			
			ECC/DEC/(04)08	WAS/RLANS		EN 301 893	Within the bands 5150-5350 and
			ERC/REC 70-03				5470-5725 MHz
				Weather radars			Ground based and airborne

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5255 - 5350 MHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)			
MOBILE except aeronautical mobile 5.446A 5.447F	MOBILE except aeronautical mobile 5.446A 5.447F		Defence systems			Tactical and weapon system radars
RADIOLOCATION SPACE RESEARCH (active)	RADIOLOCATION SPACE RESEARCH (active)		Position fixing			
5.447E 5.448	5.448A EU2 EU22	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
5.448A			Shipborne and VTS radar			
		ECC/DEC/(04)08 ERC/REC 70-03	WAS/RLANS		EN 301 893	Within the bands 5150-5350 and 5470-5725 MHz
			Weather radars			Ground based and airborne
5350 - 5450 MHz						
AERONAUTICAL RADIONAVIGATION 5.449	AERONAUTICAL RADIONAVIGATION 5.449		Active sensors (satellite)			
EARTH EXPLORATION-SATELLITE (active) 5.448B	EARTH EXPLORATION- SATELLITE (active) 5.448B		Defence systems			Tactical and weapon system radars
RADIOLOCATION 5.448D	RADIOLOCATION 5.448D		Position fixing			
SPACE RESEARCH (active) 5.448C	SPACE RESEARCH (active) 5.448C Fixed	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4.5-7.0 GHz for TLPR application
	EU2 EU22		Shipborne and VTS radar	,		
			Weather radars			Ground based and airborne

RR Region 1 Allocation and RR footnotes applicable to CEPT	European C	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5450 - 5460 MHz							
AERONAUTICAL RADIONAVIGATION 5.449	AERONAU RADIONA\	TICAL /IGATION 5.449		Active sensors (satellite)			
EARTH EXPLORATION-SATELLITE (active) 5.448B		EARTH EXPLORATION- SATELLITE (active) 5.448B		Defence systems			Tactical and weapon system radars
RADIOLOCATION 5.448D		CATION 5.448D		Position fixing			
SPACE RESEARCH (active) 5.448C	5.448C	ESEARCH (active)	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
		EU22		Shipborne and VTS radar			
				Weather radars			Ground based and airborne
5460 - 5470 MHz							
EARTH EXPLORATION-SATELLITE (active)	EARTH EX SATELLITE	(PLORATION- E (active)		Active sensors (satellite)			
RADIOLOCATION 5.448D	RADIOLOG	CATION 5.448D		Defence systems			Tactical and weapon system radars
RADIONAVIGATION 5.449 SPACE RESEARCH (active)		/IGATION 5.449 ESEARCH (active)		Position fixing			
5.448B	5.448B	EU2 EU22	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
				Shipborne and VTS radar			

Weather radars

ECC/ERC

Ground based and airborne

5470 - 5570 MHz					
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)		
MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION		Defence systems		Tactical and weapon system radars
MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A		Position fixing		
RADIOLOCATION 5.450B	RADIOLOCATION 5.450B				
SPACE RESEARCH (active)	SPACE RESEARCH (active)	ERC/REC 70-03	Radiodetermination applications	EN 302 372	Within the band 4500-7000 MHz for TLPR application
5.448B	5.448B EU2				
5.450	EU22		Shipborne and VTS radar		
5.451		ECC/DEC/(04)08	WAS/RLANS	EN 301 893	Within the bands 5150-5350 and
		ERC/REC 70-03			5470-5725 MHz
			Weather radars		Ground based and airborne
5570 - 5650 MHz					
MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION		Defence systems		Tactical and weapon system radars
MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A		Position fixing		
RADIOLOCATION 5.450B	RADIOLOCATION 5.450B	ERC/REC 70-03	Radiodetermination	EN 302 372	Within the band 4500-7000 MHz for
5.450	5.452 EU2		applications		TLPR application
5.451	EU22		Shipborne and VTS radar		
5.452					
		ECC/DEC/(04)08	WAS/RLANS	EN 301 893	Within the bands 5150-5350 and
		ERC/REC 70-03			5470-5725 MHz
			Weather radars		Ground based

Application

European footnotes

Standard

Notes

ECC/ERC

measures

European Common Allocation

harmonisation

RR Region 1 Allocation and RR footnotes applicable to CEPT

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5650 - 5725 MHz							
MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION		except aeronautical 446A 5.450A		Amateur	EU17	EN 301 783	Within the band 5660-5670 MHz Within the band 5660-5670 MHz
Amateur	Amateur	OATION		Amateur Satellite (E/S)	EU23		Within the band 5660-5670 MHZ
Space research (deep space)		satellite (E/S)		Defence systems			Tactical and weapon system radars
5.282	5.282	EU2		Position fixing			
5.451		EU17					
5.453 5.454		EU22	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
5.455				Shipborne and VTS rada	ar		
			ECC/DEC/(04)08 ERC/REC 70-03	WAS/RLANS		EN 301 893	Within the bands 5150-5350 and 5470-5725 MHz
				Weather radars			Ground based and airborne
5725 - 5830 MHz							
FIXED-SATELLITE (E/S)	FIXED-SA	ATELLITE (E/S)		Amateur		EN 301 783	
RADIOLOCATION Amateur	RADIOLC Amateur	OCATION	ECC/REC/(06)04	BFWA		EN 302 502	Within the band 5725-5875 MHz
	Mobile			Defence systems			Tactical and weapon system radars
5.150 5.451	5.150	EU2 EU22		ISM			Within the band 5725-5875 MHz
5.453			ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 5725-5875 MHz
5.455 5.456			ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application
			ECC/DEC/(02)01 ERC/REC 70-03	RTTT		EN 300 674	Within the band 5795-5805 MHz. RTTT in the band 5805-5815 MHz on a national basis
				Weather radars			Ground based and airborne

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5830 - 5850 MHz						
FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)		Amateur Satellite (S/E)	EU23		Within the band 5830-5850 MHz
RADIOLOCATION	RADIOLOCATION	ECC/REC/(06)04	BFWA		EN 302 502	Within the band 5725-5875 MHz
Amateur	Amateur					Within the band 3723 3073 Will2
Amateur-satellite (S/E)	Amateur-satellite (S/E) Mobile		Defence systems			Tactical and weapon system radars
5.150	5.150 EU2		ISM			Within the band 5725-5875 MHz
5.451 5.453	EU22	ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 5725-5875 MHz
5.455		ERC/REC 70-03	Radiodetermination		EN 302 372	Within the band 4500-7000 MHz for
5.456			applications			TLPR application
			Weather radars			Ground based and airborne
5850 - 5925 MHz						
FIXED	FIXED	ECC/REC/(06)04	BFWA		EN 302 502	Within the band 5725-5875 MHz
FIXED-SATELLITE (E/S) MOBILE	FIXED-SATELLITE (E/S) MOBILE		FSS		EN 301 443	Priority for civil networks
5.150	5.150		ISM			Within the band 5725-5875 MHz
		ECC/DEC/(08)01	ITS		EN 302 571	Within the band 5875-5925 MHz.
		ECC/REC/(08)01				Within the band 5855-5875 MHz
		ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 5725-5875 MHz
		ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 4500-7000 MHz for TLPR application

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
5925 - 6425 MHz						
FIXED	FIXED	ERC/REC 14-01	Fixed links		EN 302 217	Point-to-point
FIXED-SATELLITE (E/S) 5.457A 5.457B MOBILE 5.457C	FIXED-SATELLITE (E/S) 5.457A	ECC/DEC/(05)09	FSS		EN 301 443 EN 301 447	Priority for civil networks
MOBILE 5.457C		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 301 447 EN 302 372 EN 302 729	Within the band 4500-7000 MHz for TLPR application. Within the band 6000-8500 for LPR applications
		ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Above 6000 MHz generic UWB
6425 - 6700 MHz						
FIXED	FIXED	ERC/REC 14-02	Fixed links		EN 302 217	Point-to-point
FIXED-SATELLITE (E/S) MOBILE	FIXED-SATELLITE (E/S) Earth exploration-satellite (passive)		FSS		EN 301 443	Priority for civil networks
5.149 5.440 5.458	5.149 5.440 5.458		Passive sensors (satellite)			For sea surface temperature, sea surface wind speed and soil moisture measurements
0.400		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 4500-7000 MHz for TLPR application Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
6700 - 7075 MHz						
FIXED	FIXED		Feeder links for MSS			Within the band 6925-7075 MHz
FIXED-SATELLITE (E/S) (S/E) 5.441 MOBILE	FIXED-SATELLITE (E/S) (S/E) 5.441 Earth exploration-satellite (passive)	ERC/REC 14-02	Fixed links		EN 302 217	Point-to-point
5.458	5.458 5.458A		FSS		EN 301 443	Within the band 6725-7025 MHz Priority for civil networks
5.458A 5.458B 5.458C	5.458A 5.458B 5.458C		Passive sensors (satellite))		For sea surface temperature, sea surface wind speed and soil moisture measurements
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 4500-7000 MHz for TLPR application. Within the band 6000-8500 MHz for LPR applications
7075 - 7145 MHz						
FIXED MOBILE	FIXED Earth exploration-satellite (passive)	ECC/REC/(02)06 ERC/REC 14-02	Fixed links		EN 302 217	Point-to-point
5.458 5.459	5.458		Passive sensors (satellite	e)		For sea surface temperature, sea surface wind speed and soil moisture measurements
		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 066 EN 302 500	Generic UWB

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
7145 - 7235 MHz						
FIXED	FIXED	ECC/REC/(02)06	Fixed links		EN 302 217	Point-to-point
MOBILE SPACE RESEARCH (E/S) 5.460	MOBILE SPACE RESEARCH (E/S) 5.460 Earth exploration-satellite (E/S) Space operation (E/S) 5.458		Passive sensors (satellite))		For sea surface temperature, sea surface wind speed and soil moisture measurements
5.458		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
5.459		ECC/DEC/(06)04	UWB		EN 300 065	Generic UWB
		ECC/DEC/(06)12			EN 302 500	
7235 - 7250 MHz						
FIXED	FIXED	ECC/REC/(02)06	Fixed links		EN 302 217	Point-to-point
MOBILE	Earth exploration-satellite (E/S) Space research (E/S)		Passive sensors (satellite)			For sea surface temperature, sea surface wind speed and soil
5.458						moisture measurements
		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DEC/(06)12			EN 302 500	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
7250 - 7300 MHz						
FIXED FIXED-SATELLITE (S/E)	FIXED FIXED-SATELLITE (S/E)		Defence systems			Harmonised military band for satellite operation
MOBILE 5.461	MOBILE 5.461 EU2 EU27	ECC/DEC/(02)06	Fixed links		EN 302 217	Point-to-point. FIXED and MOBILE services not to be implemented in most NATO countries
			Mobile satellite application	าร		Within the band 7250-7375 MHz
		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DEC/(06)12			EN 302 500	
7300 - 7450 MHz						
FIXED FIXED-SATELLITE (S/E)	FIXED FIXED-SATELLITE (S/E)		Defence systems			Harmonised military band for satellite operation
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ECC/REC/(02)06	Fixed links		EN 302 217	Point-to-point
5.461	5.461 EU2 EU27		Mobile satellite application	าร		Within the band 7250-7375 MHz
		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DEC/(06)12			EN 302 500	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Alloc		nisation	Application	European footnotes	Standard	Notes
7450 - 7550 MHz							
FIXED	FIXED			Defence systems			Harmonised military band for
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)						satellite operation
METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SA [*] (S/E)	TELLITE ECC/RE	EC/(02)06	Fixed links		EN 302 217	Point-to-point
MOBILE except aeronautical mobile 5.461A	MOBILE except aeronaut 5.461A EU2	ical mobile		Meteorological Satellites			Limited to geostationary systems
3.40TA	5.401A EU27	ECC/DE	EC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DE	EC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DE	EC/(06)12			EN 302 500	
7550 - 7750 MHz							
FIXED FIXED-SATELLITE (S/E)	FIXED FIXED-SATELLITE (S/E)			Defence systems			Harmonised military band for satellite operation
MOBILE except aeronautical mobile	MOBILE except aeronaut	ical mobile ECC/RE	EC/(02)06	Fixed links		EN 302 217	Point-to-point
	EU2 EU27		EC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DE	EC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DE	EC/(06)12			EN 302 500	
7750 - 7850 MHz							
FIXED	FIXED			Defence systems			
METEOROLOGICAL-SATELLITE (S/E) 5.461B	METEOROLOGICAL-SA (S/E) 5.461B	ECC/RE	EC/(02)06	Fixed links		EN 302 217	Point-to-point
MOBILE except aeronautical mobile	MOBILE except aeronaut EU2	icai mobile		Meteorological Satellites			Limited to non-geostationary systems
		ECC/DE	EC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DE	EC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DE	EC/(06)12			EN 302 500	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
7850 - 7900 MHz							
FIXED	FIXED			Defence systems			
MOBILE except aeronautical mobile	MOBILE 6	except aeronautical mobile	ECC/REC/(02)06	Fixed links		EN 302 217	Point-to-point
			ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
			ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
			ECC/DEC/(06)12			EN 302 500	
7900 - 8025 MHz							
FIXED FIXED-SATELLITE (E/S)	FIXED FIXED-SA	TELLITE (E/S)		Defence systems			Harmonised military band for satellite operation
MOBILE 5.461	MOBILE 5.461	, ,	ECC/REC/(02)06	Fixed links		EN 302 217	Point-to-point. FIXED and MOBILE services not to be implemented above 7975 MHz in NATO countries
				Mobile satellite application	ıs		
			ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
			ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
			ECC/DEC/(06)12			EN 302 500	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
8025 - 8175 MHz						
EARTH EXPLORATION-SATELLITE (S/E)	EARTH EXPLORATION- SATELLITE (S/E)	ECC/REC/(02)06	Defence systems			Harmonised military band for satellite operation
FIXED	FIXED		Earth Exploration-Satellite)		Satellite payload telemetry
FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)		· 			
MOBILE 5.463	MOBILE 5.463		Fixed links		EN 302 217	Point-to-point
5.462A	5.462A EU2 EU27		Mobile applications			Within the band 8025-8200 MHz
		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DEC/(06)12			EN 302 500	
8175 - 8215 MHz						
EARTH EXPLORATION-SATELLITE (S/E)	EARTH EXPLORATION- SATELLITE (S/E)	ECC/REC/(02)06	Defence systems			Harmonised military band for satellite operation
FIXED FIXED-SATELLITE (E/S)	FIXED FIXED-SATELLITE (E/S)		Earth Exploration-Satellite	;		Satellite payload telemetry
METEOROLOGICAL-SATELLITE (E/S)	METEOROLOGICAL-SATELLIT		Fixed links		EN 302 217	Point-to-point
MOBILE 5.463 5.462A	MOBILE 5.463 5.462A EU2		Mobile applications			Within the band 8025-8200 MHz
0.1021	EU27	ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04	UWB		EN 302 065	Generic UWB
		ECC/DEC/(06)12			EN 302 500	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
8215 - 8400 MHz						
EARTH EXPLORATION-SATELLITE (S/E)	EARTH EXPLORATION- SATELLITE (S/E)	ECC/REC/(02)06	Defence systems			Harmonised military band for satellite operation
FIXED FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)		Earth Exploration-Satellite	e 		Satellite payload telemetry
MOBILE 5.463 5.462A	5.462A EU2		Fixed links		EN 302 217	Point-to-point
3.402A	5.463 EU27		Radio astronomy			Continuum observations and VLBI
		ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
		ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB
8400 - 8500 MHz						
FIXED	FIXED	ECC/REC/(02)06	Fixed links		EN 302 217	Point-to-point
MOBILE except aeronautical mobile SPACE RESEARCH (S/E) 5.465 5.466	SPACE RESEARCH (S/E) 5.465 Radiolocation	ECC/DEC/(11)02	Radiodetermination applications		EN 302 729	Within the band 6000-8500 MHz for LPR applications
			Space Research			Satellite payload telemetry. The band 8400-8450 MHz is limited to deep space applications
		ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB

RR Region 1 Allocation and RR footnotes applicable to CEPT	European C	common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
8500 - 8550 MHz							
RADIOLOCATION	RADIOLOC	CATION		Aeronautical radionavigation			Civil and military e.g. airfield approach
5.468	5.469	EU2		Radars			Shipborne, land and airborne surveillance and weapon
5.469		EU24	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB
8550 - 8650 MHz							
EARTH EXPLORATION-SATELLITE (active)	EARTH EX SATELLITE	PLORATION- E (active)		Active sensors (satellite)			
RADIOLOCATION SPACE RESEARCH (active)	RADIOLOC SPACE RE	CATION SEARCH (active)		Aeronautical radionavigation			Civil and military e.g. airfield approach
5.468 5.469	5.469 5.469A	EU2 EU24		Radars			Shipborne, land and airborne surveillance and weapon
5.469A			ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB
8650 - 8750 MHz							
RADIOLOCATION	RADIOLOC	CATION		Aeronautical radionavigation			Civil and military e.g. airfield approach
5.468	5.469	EU2		Radars			Shipborne, land and airborne surveillance and weapon
5.469		EU24	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
8750 - 8850 MHz							
AERONAUTICAL RADIONAVIGATION 5.470		VIGATION 5.470		Aeronautical radionavigation			Civil and military e.g. airfield approach
RADIOLOCATION		RADIOLOCATION Space research EU2 EU24		Radars			Shipborne, land and airborne surveillance and weapon
5.471	-		ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB
8850 - 9000 MHz							
MARITIME RADIONAVIGATION 5.472	MARITIME 5.472	ERADIONAVIGATION		Aeronautical radionavigation			Civil and military e.g. airfield approach
RADIOLOCATION	RADIOLO Space res			Radars			Shipborne, land and airborne surveillance and weapon
5.473	5.473	EU2 EU24	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ECC/DEC/(06)04 ECC/DEC/(06)12	UWB		EN 302 065 EN 302 500	Generic UWB
9000 - 9200 MHz							
AERONAUTICAL RADIONAVIGATION 5.337		VIGATION 5.337		Aeronautical radionavigation			Civil and military e.g. airfield approach
RADIOLOCATION	RADIOLO Space res			Radars			Shipborne, land and airborne surveillance and weapon
5.471 5.473A	5.473A	EU2 EU24	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
9200 - 9300 MHz						
MARITIME RADIONAVIGATION 5.472	MARITIME RADIONAVIGATION 5.472		Aeronautical radionavigation			Civil and military e.g. airfield approach
RADIOLOCATION	RADIOLOCATION Space research		Radars			Shipborne, land and airborne surveillance and weapon
5.473 5.474	5.473 EU2 5.474 EU24	ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 9200-9975 MHz; and within the band 8.5-10.6 GHz for TLPR application
9300 - 9500 MHz						
RADIONAVIGATION 5.476 RADIOLOCATION	RADIONAVIGATION 5.476 RADIOLOCATION		Aeronautical radionavigation			Civil and military e.g. airfield approach
EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active)	SPACE RESEARCH EARTH EXPLORATION- SATELLITE (active)		Radars		EN 302 194 EN 302 752	Shipborne, land and airborne surveillance and weapon
5.427 5.474 5.475	5.427 EU2 5.474 EU24 5.475	ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 9200-9975 MHz; and within the band 8.5-10.6 GHz for TLPR application
5.475A 5.475B	5.475A 5.475B		Weather radars			Ground based and airborne

5.476A

5.476A

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
9500 - 9800 MHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Active sensors (satellite)			
RADIOLOCATION	RADIOLOCATION		Aeronautical			Civil and military e.g. airfield
RADIONAVIGATION	SPACE RESEARCH (active)		radionavigation			approach
SPACE RESEARCH (active) 5.476A	5.476A EU2		Radars			Shipborne, land and airborne surveillance and weapon
	EU24	ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 9200-9975 MHz; and within the band 8.5-10.6 GHz for TLPR application
9800 - 9900 MHz RADIOLOCATION Fixed	RADIOLOCATION Space research (active)		Aeronautical radionavigation			Civil and military e.g. airfield approach
Earth exploration-satellite (active) Space research (active)	Earth exploration-satellite (active)		Radars			Shipborne, land and airborne surveillance and weapon
5.477 5.478 5.478A	5.478A EU2 5.478B EU24	ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 9200-9975 MHz; and within the band 8.5-10.6 GHz for TLPR application
5.478B 5.479						
9900 - 10000 MHz						
RADIOLOCATION	RADIOLOCATION		Aeronautical			Civil and military e.g. Airfield
FIXED	Fixed		radionavigation			approach
5.477	5.477		Radars			Shipborne, land and airborne surveillance and weapon
5.478 5.479	5.478 5.479	ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 9200-9975 MHz, and within the band 8.5-10.6 GHz for TLPR application

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
10000 - 10150 MHz							
FIXED	FIXED			Amateur		EN 301 783	
MOBILE	MOBILE						
RADIOLOCATION	RADIOLO	CATION		Non civil radar			
Amateur 5.479	Amateur 5.479	EU2	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ERC/REC 25-10	SAP/SAB	EU17A		
10150 - 10300 MHz							
FIXED	FIXED			Amateur		EN 301 783	
MOBILE	MOBILE						
RADIOLOCATION	RADIOLO	CATION		Civil and military radars	S		Low power radars in certain subbands
Amateur	Amateur						
		EU2	ERC/REC 12-05	Fixed links		EN 302 217	
				FWA		EN 302 326	Including Point-to-Multipoint
			ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
			ERC/REC 25-10	SAP/SAB	EU17A		
10300 - 10450 MHz							
FIXED	FIXED			Amateur		EN 301 783	
MOBILE	RADIOLO	CATION					
RADIOLOCATION	Amateur			Civil and military radars	S		Low power radars in certain subbands
Amateur	Mobile	EU2	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
		EU17	ERC/REC 25-10	SAP/SAB	EU17A		

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
10450 - 10500 MHz						
RADIOLOCATION	FIXED		Amateur	EU17	EN 301 783	
Amateur	MOBILE					
Amateur-satellite	RADIOLOCATION		Amateur Satellite	EU23		
	Amateur		Civil and military radars	6		
	Amateur-satellite					
5.481	5.481 EU2	ERC/REC 12-05	Fixed links		EN 302 217	
		ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 8.5-10.6 GHz for TLPR application
		ERC/REC 25-10	SAP/SAB	EU17A		

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
10.5 - 10.55 GHz						
FIXED	FIXED	ERC/REC 12-05	Fixed links		EN 302 217	
MOBILE	MOBILE		FWA		EN 302 326	Including Point-to-Multipoint
Radiolocation	Radiolocation					
		ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 10.5-10.6 GHz; and within the band 8.5-10.6 GHz for TLPR application
		ERC/REC 25-10	SAP/SAB	EU17A		
10.55 - 10.6 GHz						
FIXED	FIXED	ERC/REC 12-05	Fixed links		EN 302 217	
MOBILE except aeronautical mobile Radiolocation	MOBILE except aeronautical mobile Radiolocation		FWA		EN 302 326	Including Point-to-Multipoint
		ERC/REC 70-03	Radiodetermination applications		EN 300 440 EN 302 372	Within the band 10.5-10.6 GHz, and within the band 8.5-10.6 GHz for TLPR application
		ERC/REC 25-10	SAP/SAB	EU17A		
10.6 - 10.65 GHz						
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-	ECC/DEC/(10)01	Fixed links		EN 302 217	
(passive) FIXED	SATELLITE (passive) FIXED	ERC/REC 12-05				
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		FWA		EN 302 326	Including Point-to-Multipoint
RADIO ASTRONOMY	RADIO ASTRONOMY		Pagaiya gapaga (agta			Surface emissivity and presinitation
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		Passive sensors (sate	iiite)		Surface emissivity and precipitation measurements
Radiolocation	Radiolocation		Radio astronomy			Continuum and VLBI measurements
5.149 5.482	5.149 5.482					
5.482A	5.482A	ERC/REC 25-10	SAP/SAB	EU17A		

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
10.65 - 10.68 GHz						
EARTH EXPLORATION-SATELLITE (passive) FIXED	EARTH EXPLORATION- SATELLITE (passive) FIXED	ECC/DEC/(10)01 ERC/REC 12-05	Fixed links		EN 302 217	
MOBILE except aeronautical mobile RADIO ASTRONOMY	MOBILE except aeronautical mobile RADIO ASTRONOMY		Passive sensors (satellit	e)		Surface emissivity and precipitation measurements
SPACE RESEARCH (passive) Radiolocation	SPACE RESEARCH (passive)		Radio astronomy			Continuum and VLBI measurement
5.149	5.149	ERC/REC 25-10	SAP/SAB	EU17A		
5.482 5.482A	5.482 5.482A					
10.68 - 10.7 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Passive sensors (satellit	e)		Surface emmissivity and precipitation measurement
RADIO ASTRONOMY SPACE RESEARCH (passive)	RADIO ASTRONOMY SPACE RESEARCH (passive)		Radio astronomy			Continuum and VLBI measurement

5.340

5.483

5.340

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
10.7 - 11.7 GHz						
FIXED	FIVED	ECC/DEC/(05)44	Aircraft Forth Chations		EN 202 400	
	FIXED FIXED-SATELLITE (S/E) 5.441	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
FIXED-SATELLITE (S/E) 5.441 5.484A (E/S) 5.484	5.484A (E/S) 5.484	ERC/DEC/(00)08	Fixed links		EN 302 217	Limited to high capacity fixed links
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ERC/REC 12-06				
	Mobile-satellite (S/E)	ECC/DEC/(05)10	FSS		EN 301 427	Within the band 10.7-10.95/11.2-
		ECC/DEC/(05)11			EN 301 428	11.45 GHz in accordance with App 30B of RR SIT/SUT -
		ERC/DEC/(00)08			EN 301 430	EUTELTRACK - VSAT
		, ,			EN 301 360	
					EN 301 459	
					EN 302 340	
					EN 302 448	
		ECC/DEC/(06)03	HEST		EN 301 428	
					EN 301 459	
		ECC/DEC/(06)02	LEST		EN 301 428	
					EN 301 459	
			MES		EN 302 977	
11.7 - 12.5 GHz						
BROADCASTING	BROADCASTING-SATELLITE	ERC/DEC/(00)08	Broadcasting Satellite		EN 301 459	In accordance with App 30 of RR.
BROADCASTING-SATELLITE 5.492	5.492	, ,	-		EN 301 360	SIT within the band 12.4 - 12.5 GHz
FIXED	FIXED				EN 302 340	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				EN 302 448	
5.487 5.487A	5.487 EU28 5.487A	ECC/DEC/(06)03	HEST			
5577		ECC/DEC/(06)02	LEST			
			MES		EN 302 977	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
12.5 - 12.75 GHz						
FIXED-SATELLITE (S/E) 5.484A (E/S)	FIXED-SATELLITE (S/E) 5.484A (E/S)	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
		ECC/DEC/(05)10	FSS		EN 301 427	Priority for civil networks.
5.494	5.495	ECC/DEC/(05)11			EN 301 428	Low density carriers, including VSATs and digital SNG are
5.495	5.496				EN 301 430	encouraged to use this band VSAT -
5.496					EN 301 360	SIT/SUT
					EN 302 186	
					EN 301 459	
					EN 302 340	
					EN 302 448	
		ECC/DEC/(06)03	HEST		EN 301 428	
					EN 301 459	
		ECC/DEC/(06)02	LEST		EN 301 428	
					EN 301 459	
			MES		EN 302 977	
12.75 - 13.25 GHz						
FIXED	FIXED	ERC/REC 12-02	Fixed links		EN 302 217	
FIXED-SATELLITE (E/S) 5.441 MOBILE	FIXED-SATELLITE (E/S) 5.441		FSS		EN 301 430	

Space research (deep space) (S/E)

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
13.25 - 13.4 GHz							
AERONAUTICAL RADIONAVIGATION 5.497		VIGATION 5.497		Active sensors (satellite)			Altimeters, scatterometers, precipitation radars
EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active)	SATELLIT	EARTH EXPLORATION- SATELLITE (active) SPACE RESEARCH (active)		Doppler Navigation aids			
5.498A	5.498A	EU26		Ship berthing radars			
5.499							
13.4 - 13.75 GHz							
EARTH EXPLORATION-SATELLITE (active)	SATELLIT	` ,		Active sensors (satellite)			Altimeters, scatterometers, precipitation radars
RADIOLOCATION SPACE RESEARCH 5.501A	RADIOLO SPACE R	ESEARCH 5.501A		Data relay satellites			
Standard frequency and time signal- satellite (E/S)				Defence systems			Military radars
5.499	5.501B	EU2		Doppler Navigation aids			
5.500		EU26					
5.501 5.501B			ERC/REC 70-03	Radiodetermination applications		EN 300 440	Within the band 13.4-14.0 GHz
				Ship berthing radars			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European	Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
13.75 - 14 GHz							
FIXED-SATELLITE (E/S) 5.484A	FIXED-S	ATELLITE (E/S) 5.484A		Data relay satellites			
RADIOLOCATION	RADIOLO	OCATION					
Earth exploration-satellite	Space res	search		Defence systems			Military radars
Space research				FSS		EN 301 430	
Standard frequency and time signal- satellite (E/S)				Navigation radars			
5.499	5.502	EU2					
5.500	5.503	EU26		Passive sensors (satellite)			Future VLBI measurements
5.501			ERC/REC 70-03	Radiodetermination		EN 300 440	Within the band 13.4-14.0 GHz
5.502				applications			
5.503				Ship berthing radars			
14 - 14.25 GHz							
FIXED-SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B		ATELLITE (E/S) 5.457A .484A 5.506 5.506B	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
RADIONAVIGATION 5.504	Space res		ECC/DEC/(05)10	Earth Stations on board Vessels		EN 302 340	
Space research	Mobile-sa 5.506A	atellite (E/S) 5.504C					
Mobile-satellite (E/S) 5.504C 5.506A				EST		EN 302 448	
5.504A	5.504		ECC/DEC/(06)03	HEST		EN 301 428	
			ECC/DEC/(06)02	LEST		EN 301 428	
				MES		EN 302 977	
				MSS		EN 301 427	Priority for civil networks
			ERC/REC 13-03	VSAT/SNG		EN 301 430	Low density carriers, including VSATs and digital SNG, are encouraged to use this band

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
14.25 - 14.3 GHz						
FIXED-SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B	FIXED-SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
RADIONAVIGATION 5.504	Mobile-satellite (E/S) 5.506A	ECC/DEC/(05)10	Earth Stations on board		EN 302 340	
Mobile-satellite (E/S) 5.506A 5.508A	Space research		Vessels			
Space research	5.504		MES		EN 302 977	
5.504A 5.508			MSS		EN 301 427	Priority for civil networks
		ERC/REC 13-03	VSAT/SNG		EN 301 428	
					EN 301 430	
14.3 - 14.4 GHz						
FIXED	FIXED-SATELLITE (E/S) 5.457A	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
FIXED-SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B Mobile except aeronautical mobile	5.484A 5.506 Mobile-satellite (E/S) 5.506A 5.509A	ECC/DEC/(05)10	Earth Stations on board Vessels		EN 302 340	
Mobile-satellite (E/S) 5.506A 5.509A Radionavigation-satellite 5.504A			FSS		EN 302 340	Fixed links to be coordinated with Fixed Satellite Services on a national basis
			MES		EN 302 977	
			MSS		EN 301 427	Priority for civil networks
		ERC/REC 13-03	VSAT/SNG		EN 301 428 EN 301 430	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
14.4 - 14.47 GHz						
FIXED	FIXED-SATELLITE (E/S) 5.457A 5.484A 5.506	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
FIXED-SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile	5.484A 5.506 Mobile-satellite (E/S) 5.506A 5.509A	ECC/DEC/(05)10	Earth Stations on board Vessels		EN 302 340	
Mobile-satellite (E/S) 5.506A 5.509A Radionavigation-satellite 5.504A	5.504A		FSS		EN 302 340	Fixed links to be coordinated with Fixed Satellite Services on a national basis
			MES		EN 302 977	
			MSS		EN 301 427	Priority for civil networks
		ERC/REC 13-03	VSAT/SNG		EN 301 428	
					EN 301 430	
14.47 - 14.5 GHz						
FIXED	FIXED-SATELLITE (E/S) 5.457A 5.484A 5.506	ECC/DEC/(05)11	Aircraft Earth Stations		EN 302 186	
FIXED-SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile	Mobile-satellite (E/S) 5.504B 5.506A 5.509A	ECC/DEC/(05)10	Earth Stations on board Vessels		EN 302 340	
Mobile-satellite (E/S) 5.504B 5.506A 5.509A	Radio astronomy		FSS			Fixed links to be coordinated with Fixed Satellite Service on a national basis
Radio astronomy 5.149	5.149					Dasis
5.504A	5.504A		MES		EN 302 977	
			MSS		EN 301 427	Priority for civil networks
			Radio astronomy			Spectral line and future VLBI measurements
		ERC/REC 13-03	VSAT/SNG		EN 301 428	VSAT&SNG

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
14.5 - 14.8 GHz						
FIXED FIXED-SATELLITE (E/S) 5.510 MOBILE	FIXED MOBILE		Defence systems	EU20		The band 14.62-15.23 GHz is a harmonised military band for fixed and mobile services
Space research	Radio astronomy	ERC/REC 12-07	Fixed links	EU20	EN 302 217	
	EU27		Radio astronomy			Future VLBI measurements compatible with primary use
14.8 - 15.35 GHz FIXED MOBILE Space research	FIXED MOBILE Radio astronomy		Defence systems	EU20		The band 14.62-15.23 GHz is a harmonised military band for fixed and mobile services
5.339	5.339 EU27	ERC/REC 12-07	Fixed links	EU20	EN 302 217	
			Radio astronomy			Future VLBI measurements compatible with primary use
15.35 - 15.4 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Passive sensors (sate	ellite)		
RADIO ASTRONOMY SPACE RESEARCH (passive)	RADIO ASTRONOMY SPACE RESEARCH (passive)		Radio astronomy			Continuum and future VLBI measurements

5.340

5.511

5.340

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
15.4 - 15.43 GHz AERONAUTICAL	AERONAUTICAL		Doppler radar low power			
RADIONAVIGATION	RADIONAVIGATION		sensing			
5.511D	5.511D		Ground movement radars	; 		
15.43 - 15.63 GHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		Doppler radar low power sensing			
FIXED-SATELLITE (E/S) 5.511A 5.511C	FIXED-SATELLITE (E/S) 5.511C		FSS			MSS feeder links
3.3110	3.5110		Ground movement radars	 ; 		
15.63 - 15.7 GHz						
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		Doppler radar low power sensing			
5.511D	5.511D		Ground movement radars	s 		
15.7 - 16.6 GHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			Harmonised military band for land, airborne and naval radars
5.512	EU27					

5.513

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
16.6 - 17.1 GHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			Harmonised military band for land,
Space research (deep space) (E/S)	Space research (deep space) (E/S)					airborne and naval radars
5.512	EU27					
5.513						
17.1 - 17.2 GHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			Military radar applications
	Mobile	ERC/REC 70-03	WAS/RLANS			Within the band 17.1-17.3 GHz
5.512	EU2					
5.513						
17.2 - 17.3 GHz						
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Defence systems			Military radar applications
RADIOLOCATION	MOBILE	ERC/REC 70-03	WAS/RLANS			Within the band 17.1-17.3 GHz
SPACE RESEARCH (active)	RADIOLOCATION					
	SPACE RESEARCH (active)					
5.512	5.513A EU2					
5.513						
5.513A						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
17.3 - 17.7 GHz						
FIXED-SATELLITE (E/S) 5.516 (S/E) 5.516A 5.516B	FIXED-SATELLITE (E/S) 5.516 (S/E) 5.516A 5.516B		Defence systems			Military radar applications
Radiolocation	Radiolocation		Feeder links for the BSS			Appendix 30A of RR
5.514	EU2		service			
		ECC/DEC/(05)08	High Density FSS			
17.7 - 18.1 GHz						
FIXED	FIXED		Feeder links for the BSS			Appendix 30A of RR
FIXED-SATELLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A		service			
(E/S) 5.516 MOBILE	(E/S) 5.516	ERC/DEC/(00)07	Fixed links		EN 302 217	
		ERC/REC 12-03				
		ERC/DEC/(00)07	FSS		EN 301 360	To coordinated earth stations.
			EN 301 459		Priority for civil networks	
18.1 - 18.3 GHz						
FIXED	FIXED		Feeder links for the BSS service			
FIXED-SATELLITE (S/E) 5.484A (E/S) 5.520 MOBILE	FIXED-SATELLITE (S/E) 5.484A METEOROLOGICAL-SATELLITE	ERC/REC 12-03	Fixed links		EN 302 217	
5.519	(S/E) 5.519		FSS		EN 301 360	To coordinated earth stations.
5.521			1 00		EN 301 360 EN 301 459	Priority for civil networks
			Meteorological Satellites			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
18.3 - 18.4 GHz						
FIXED	FIXED		Feeder links for the BSS			
FIXED-SATELLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A		service			
(E/S) 5.520 MOBILE	(E/S) 5.520 METEOROLOGICAL-SATELLITE	ERC/REC 12-03	Fixed links		EN 302 217	
	(S/E)		FSS		EN 301 360	To coordinated earth stations.
5.519	5.519		F33		EN 301 459	Priority for civil networks
5.521						
18.4 - 18.6 GHz						
FIXED	FIXED	ERC/DEC/(00)07	Fixed links		EN 302 217	
FIXED-SATELLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A	ERC/REC 12-03				
MOBILE		ERC/DEC/(00)07	FSS		EN 301 360	To coordinated earth stations.
					EN 301 459	Priority for civil networks
18.6 - 18.8 GHz						
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-	ERC/DEC/(00)07	Fixed links		EN 302 217	
(passive) FIXED	SATELLITE (passive) FIXED	ERC/REC 12-03				
FIXED-SATELLITE (S/E) 5.522B	FIXED-SATELLITE (S/E) 5.522B	ERC/DEC/(00)07	FSS		EN 301 360	To coordinated earth stations.
MOBILE except aeronautical mobile					EN 301 459	Priority for civil networks
Space research (passive)			Passive sensors (satellite	\ \		Surface emmissivity, snow, sea, ice
5.522A	5.522A		r assive sensors (satemite)		and precipitation
5.522C						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
18.8 - 19.3 GHz						
FIXED FIXED-SATELLITE (S/E) 5.523A	FIXED FIXED-SATELLITE (S/E) 5.523A	ERC/DEC/(00)07 ERC/REC 12-03	Fixed links		EN 302 217	
MOBILE		ERC/DEC/(00)07	FSS		EN 301 360 EN 301 459	To coordinated earth stations. Priority for civil networks
19.3 - 19.7 GHz						
FIXED	FIXED	ERC/DEC/(00)07	Fixed links		EN 302 217	
FIXED-SATELLITE (S/E) (E/S) 5.523B 5.523C 5.523D 5.523E	FIXED-SATELLITE (S/E) (E/S) 5.523B 5.523C 5.523D 5.523E	ERC/REC 12-03				
MOBILE		ERC/DEC/(00)07	FSS		EN 301 360 EN 301 459	To coordinated earth stations. Priority for civil networks
19.7 - 20.1 GHz						
FIXED-SATELLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A		FSS/MSS		EN 301 459	For uncoordinated earth stations SUT
5.516B Mobile-satellite (S/E)	5.516B Mobile-satellite (S/E)				EN 301 360	
5.524		ECC/DEC/(06)03	HEST		EN 301 459	
					EN 301 360	
		ECC/DEC/(05)08	High Density FSS			
		ECC/DEC/(06)02	LEST		EN 301 459	
					EN 301 360	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
20.1 - 20.2 GHz						
FIXED-SATELLITE (S/E) 5.484A 5.516B MOBILE-SATELLITE (S/E)	FIXED-SATELLITE (S/E) 5.484A 5.516B MOBILE-SATELLITE (S/E)		FSS/MSS		EN 301 459 EN 301 360	For uncoordinated earth stations SUT
5.524 5.525	5.525 5.526	ECC/DEC/(06)03	HEST		EN 301 459 EN 301 360	
5.526 5.527	5.527 5.528	ECC/DEC/(05)08	High Density FSS			
5.528		ECC/DEC/(06)02	LEST		EN 301 459 EN 301 360	
20.2 - 21.2 GHz						
FIXED-SATELLITE (S/E) MOBILE-SATELLITE (S/E)	FIXED-SATELLITE (S/E) MOBILE-SATELLITE (S/E)		FSS/MSS			For uncoordinated earth stations. Harmonised military band for satellite downlinks
Standard frequency and time signal- satellite (S/E) 5.524	EU2 EU27					
21.2 - 21.4 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Passive sensors (satellite))		Passive systems will be phased out by 2015
FIXED MOBILE	FIXED MOBILE	ERC/REC 25-10	Unidirectional temporary fixed or mobile links			Including SAP/SAB

SPACE RESEARCH (passive)

SPACE RESEARCH (passive)

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
21.4 - 22 GHz						
BROADCASTING-SATELLITE FIXED	BROADCASTING-SATELLITE		Broadcasting Satellite		EN 301 360 EN 301 459	
MOBILE 5.208B 5.530	5.208B 5.530	ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
			Wideband High Definition	on		Fixed service envisaged in some countries
22 - 22.21 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)		Radio astronomy			Spectral line observations (water line and redshifted water line under 22.5 GHz)
5.149	5.149	ERC/REC 25-10	SAP/SAB	EU17A		
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
22.21 - 22.5 GHz						
EARTH EXPLORATION-SATELLITE (passive)	FIXED MOBILE except aeronautical mobile	T/R 13-02	Fixed links		EN 302 217	
FIXED MOBILE except aeronautical mobile	mautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)		Passive sensors (sa	tellite)		EESS systems will be phased out by 2015
RADIO ASTRONOMY SPACE RESEARCH (passive)			Radio astronomy			Spectral line observations (water line and redshifted water line under 22.5 GHz) also VLBI
5.149 5.532	5.149 5.532	ERC/REC 25-10	SAP/SAB	EU17A		
5.532	5.552	ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
22.5 - 22.55 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
MOBILE	MOBILE RADIO ASTRONOMY		Radio astronomy			
	SPACE RESEARCH (passive)	ERC/REC 25-10	SAP/SAB	EU17A		
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
22.55 - 22.6 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
INTER-SATELLITE 5.338A MOBILE	MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive)		Radio astronomy			
		ERC/REC 25-10	SAP/SAB	EU17A		
INTER-SATELLITE 5.338A	ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013	
22.6 - 23 GHz						
FIXED INTER-SATELLITE 5.338A	FIXED MOBILE		Radio astronomy			Spectral line observations (Methyl Formate and Ammonia lines 22.81-22.86 GHz)
MOBILE	RADIO ASTRONOMY SPACE RESEARCH (passive)	ERC/REC 25-10	SAP/SAB	EU17A		
5.149	INTER-SATELLITE 5.338A 5.149	ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
23 - 23.55 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
INTER-SATELLITE 5.338A MOBILE	INTER-SATELLITE 5.338A MOBILE		Radio astronomy			Spectral line observations
5.149	5.149	ERC/REC 25-10	SAP/SAB			
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
23.55 - 23.6 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
MOBILE	INTER-SATELLITE MOBILE	ERC/REC 25-10	SAP/SAB			
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
23.6 - 24 GHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY		Passive sensors (satellite))		Measurement of water vapour, liquid water, clouds for atsmospheric sounding
SPACE RESEARCH (passive) 5.340	SPACE RESEARCH (passive) 5.340		Radio astronomy			Continuum observation. Ammonia line measurement
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
24 - 24.05 GHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
AMATEUR-SATELLITE	AMATEUR-SATELLITE		Amateur Satellite			
5.150	5.150		ISM			Within the band 24-24.25 GHz
		ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 24-24.25 GHz
		ERC/REC 25-10	SAP/SAB			
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
24.05 - 24.25 GHz						
RADIOLOCATION	RADIOLOCATION		Active sensors (satellite)			Rain radars from satellites
Amateur Earth exploration-satellite (active)	Amateur Earth exploration-satellite (active)		Amateur		EN 301 783	
	Fixed		Defence systems			
5.150	Mobile 5.150 EU2		ISM			Within the band 24-24.25 GHz
		ERC/REC 70-03	Non-Specific SRDs		EN 300 440	Within the band 24-24.25 GHz
		ECC/DEC/(11)02	Radiodetermination		EN 300 440	Within the band 24.05-27.00 GHz for
		ERC/REC 70-03	applications		EN 302 729	TLPR application. Includes narrow band SRR. Within the band 24.05-26.50 GHz for LPR applications
		ERC/REC 25-10	SAP/SAB			
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
24.25 - 24.45 GHz						
FIXED	FIXED	ECC/DEC/(11)02	annlications		EN 302 372	Within the band 24.05-27.00 GHz for
	MOBILE	ERC/REC 70-03			EN 302 729	TLPR application. Within the band 24.05-26.50 GHz for LPR applications
		ERC/REC 25-10	SAP/SAB	EU17A		
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
			Unidirectional fixed links	S		
24.45 - 24.5 GHz						
FIXED	FIXED	ECC/DEC/(11)02	Radiodetermination		EN 302 372	Within the band 24.05-27.00 GHz for
INTER-SATELLITE	MOBILE	ERC/REC 70-03	applications		EN 302 729	TLPR application. Within the band 24.05-26.50 GHz for LPR applications
		ERC/REC 25-10	SAP/SAB	EU17A		
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
			Unidirectional fixed links	S		

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
24.5 - 24.65 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
INTER-SATELLITE		ECC/REC/(11)01	FWA		EN 302 326	CRS paired with 25.5-26.5 GHz for FDD systems
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 24.05-27.00 GHz for TLPR application. Within the band 24.05-26.50 GHz for LPR applications
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
24.65 - 24.75 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
INTER-SATELLITE		ECC/REC/(11)01	FWA		EN 302 326	CRS paired with 25.5-26.5 GHz for FDD systems
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 24.05-27.00 GHz for TLPR application. Within the band 24.05-26.50 GHz for LPR applications
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
24.75 - 25.25 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
		ECC/REC/(11)01	FWA		EN 302 326	CRS paired with 25.5-26.5 GHz for FDD systems
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 24.05-27.00 GHz for TLPR application. Within the band 24.05-26.50 GHz for LPR applications
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013
25.25 - 25.5 GHz						
FIXED	FIXED	T/R 13-02	Fixed links		EN 302 217	
INTER-SATELLITE 5.536 MOBILE	INTER-SATELLITE 5.536 MOBILE	ECC/REC/(11)01	FWA		EN 302 326	CRS paired with 25.5-26.5 GHz for FDD systems
Standard frequency and time signal- satellite (E/S)		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 24.05-27.00 GHz for TLPR application. Within the band 24.05-26.50 GHz for LPR applications
		ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013

European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes	
FIXED	T/R 13-02	Fixed links		EN 302 217		
INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) 5.536A 5.536B	MOBILE	ECC/REC/(11)01	FWA		EN 302 326	TS should be paired with 24.5-25.5 GHz for FDD systems
	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 24.05-27.00 GHz for TLPR application. Within the band 24.05-26.50 GHz for LPR applications	
		Space Research			Satellite payload telemetry	
	ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013	
FIXED INTER-SATELLITE 5.536		Defence systems			Harmonised military band for fixed and mobile systems	
MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E)	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 24.05-27.00 GHz for TLPR application	
		Space Research			Satellite payload telemetry	
5.536A 5.536B EU27	ECC/DEC/(04)10	SRR		EN 302 288	New SRR systems may only be introduced in CEPT countries in the frequency bands 21.4-27 GHz until the reference date of 1 July 2013	
	FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) 5.536A 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) 5.536A 5.536B	FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) 5.536A 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536A 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) 5.536A 5.536B ERC/REC 70-03 ERC/REC 70-03	FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536A 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A ECC/DEC/(11)02 ERC/REC 70-03 ERC/REC 70-03 Space Research ECC/DEC/(04)10 SRR FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) SPACE RESEARCH (S/E) 5.536A 5.536C Earth exploration-satellite (S/E) 5.536A 5.536B ERC/REC 70-03 Radiodetermination applications Space Research ERC/REC 70-03 Space Research	FIXED T/R 13-02 Fixed links INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (S/E) 5.536A 5.536B FIXED Earth exploration-satellite (S/E) ECC/DEC/(04)10 SRR FIXED Defence systems FIXED Defence systems FIXED ERC/REC 70-03 Radiodetermination applications FIXED Space Research ECC/DEC/(04)10 SRR	FIXED	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
27 - 27.5 GHz						
FIXED INTER-SATELLITE 5.536 MOBILE	FIXED INTER-SATELLITE 5.536 MOBILE Earth exploration-satellite (S/E) EU27		Defence systems			Harmonised military band for fixed and mobile systems
27.5 - 28.5 GHz FIXED 5.537A FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539	FIXED FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539		Feeder links			Feeder links to be used for Broadcasting satellites (HDTV) 27.5- 29.5 GHz
MOBILE 5.538 5.540	5.538 5.540	ECC/DEC/(05)01 T/R 13-02	Fixed links		EN 302 217	For frequency arrangement between FS and FSS see ECC Decision (05)01
		ECC/DEC/(05)01	FSS		EN 301 360	The Earth-to-Space direction for uncoordinated earth stations within the band 27.5-27.8285 GHz. The Space-to-Earth direction is limited to beacons for uplink power control 27.5-27.501 GHz
		ECC/DEC/(05)01 ECC/REC/(11)01	FWA		EN 302 326	CRS paired with 28.5-29.5 GHz for FDD systems. The Earth-to-Space direction for uncoordinated earth stations within the band 27.5-27.8285 GHz. The Space-to-Earth direction is limited to beacons for uplink power control 27.5-27.501 GHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
28.5 - 29.1 GHz						
FIXED	FIXED		Feeder links			Feeder links to be used for
FIXED-SATELLITE (E/S) 5.484A 5.516B 5.523A 5.539	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.523A 5.539					Broadcasting satellites (HDTV) 27.5- 29.5 GHz
MOBILE	Earth exploration-satellite (E/S)	ECC/DEC/(05)01	Fixed links		EN 302 217	For frequency arrangement between
Earth exploration-satellite (E/S) 5.541	5.541	T/R 13-02				FS and FSS see ECC/DEC/(05)01
5.540	5.540	ECC/DEC/(05)01	FSS		EN 301 360	Uncoordinated earth stations within the band 28.4445-28.8365 GHz
		ECC/DEC/(05)01 ECC/REC/(11)01	FWA		EN 302 326	TS paired with 27.5-28.5 GHz for FDD systems. Uncoordinated earth stations within the band 28.4445-28.8365 GHz
29.1 - 29.5 GHz						
FIXED FIXED-SATELLITE (E/S) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A	FIXED FIXED-SATELLITE (E/S) 5.516B 5.523C 5.523E 5.535A 5.539		Feeder links			Feeder links to be used for Broadcasting satellites (HDTV) 27.5- 29.5 GHz
MOBILE	5.541A	ECC/DEC/(05)01	Fixed links		EN 302 217	Within the band 29.0605-29.4525
Earth exploration-satellite (E/S) 5.541	Earth exploration-satellite (E/S) 5.541	T/R 13-02				GHz
5.540	5.540	ECC/DEC/(05)01	FSS		EN 301 360	Uncoordinated earth stations within the band 29.4525-29.5 GHz
		ECC/DEC/(05)01 ECC/REC/(11)01	FWA		EN 302 326	TS paired with 27.5-28.5 GHz for FDD systems. Uncoordinated earth stations within the band 28.4445-28.8365 GHz

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
29.5 - 29.9 GHz						
FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539	ECC/DEC/(06)03	HEST		EN 301 459	
Earth exploration-satellite (E/S) 5.541	Earth exploration-satellite (E/S)	ECC/DEC/(05)08	High Density FSS		EN 301 459	SIT/SUT
Mobile-satellite (E/S)	5.541 Mobile-satellite (E/S)	ECC/DEC/(06)02	LEST		EN 301 459	
5.540	5.540		-			
5.542			MSS		EN 301 459	
29.9 - 30 GHz						
FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539		FSS			Limited to beacons for uplink power control 29.999-30 GHz
MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)	FCC/DFC//06\03	HEST		EN 301 459	
Earth exploration-satellite (E/S) 5.541 5.543	Earth exploration-satellite (E/S) 5.541 5.543	ECC/DEC/(06)03	_		EN 301 459	
5.525	5.525	ECC/DEC/(05)08	High Density FSS		EN 301 459	SIT/SUT
5.526	5.526	ECC/DEC/(06)02	LEST		EN 301 459	
5.527	5.527					
5.538	5.538		MSS		EN 301 459	For uncoordinated earth stations
5.540	5.540					
5.542						
30 - 31 GHz						
FIXED-SATELLITE (E/S) 5.338A	FIXED-SATELLITE (E/S) 5.338A		FSS/MSS			For uncoordinated earth stations.
MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)					Harmonised military band for
Standard frequency and time signal- satellite (S/E)						satellite uplinks
5.542	EU2					
	EU27					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
31 - 31.3 GHz						
FIXED 5.543A 5.338A	FIXED 5.338A	ECC/REC/(02)02	Fixed links		EN 302 217	
MOBILE	MOBILE				EN 302 326	
Space research 5.544 5.545			Radio astronomy			Continuum observations
Standard frequency and time signal- satellite (S/E)						
5.149	5.149					
31.3 - 31.5 GHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	ECC/DEC/(10)02	Passive sensors (satellite)			Measurement of sea ice, water vapour, oil spills, liquid water, clouds, surface temperature.
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					Reference window for the 50-60 GHz
5.340	5.340					range
0.010	0.010		Radio astronomy			Continuum observation
			Surface temperature and emissivity, atmospheric attenuation			
31.5 - 31.8 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Fixed links			
RADIO ASTRONOMY	RADIO ASTRONOMY		Passive sensors (satellite)	· I		Measurement of sea ice, water
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		,			vapour, oil spills, liquid water,
Fixed	Fixed					clouds, surface temperature. Reference window for the 50-60 GHz
Mobile except aeronautical mobile	Mobile except aeronautical mobile					range
5.149	5.149		Radio astronomy			Continuum observation
5.546	5.546		Surface temperature and emissivity, atmospheric attenuation			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
31.8 - 32 GHz						
FIXED 5.547A	FIXED 5.547A	ECC/REC/(11)01	High Density FS		EN 302 217	Point-to-Point and Point-to-Multipoint
RADIONAVIGATION	RADIONAVIGATION	ERC/REC/(01)02			EN 302 326	
SPACE RESEARCH (deep space) (S/E)	SPACE RESEARCH (deep space) (S/E)					
5.547	5.547					
5.547B	5.548					
5.548						
32 - 32.3 GHz						
FIXED 5.547A	FIXED 5.547A	ECC/REC/(11)01	High Density FS		EN 302 217	Point-to-Point and Point-to-Multipoint
RADIONAVIGATION	RADIONAVIGATION	ERC/REC/(01)02			EN 302 326	
SPACE RESEARCH (deep space) (S/E)	SPACE RESEARCH (deep space) (S/E)					
5.547	5.547					
5.547C	5.548					
5.548						
32.3 - 33 GHz						
FIXED 5.547A	FIXED 5.547A	ECC/REC/(11)01	High Density FS		EN 302 217	Point-to-Point and Point-to-Multipoint
INTER-SATELLITE	INTER-SATELLITE	ERC/REC/(01)02			EN 302 326	
RADIONAVIGATION	RADIONAVIGATION					
5.547	5.547					
5.547D	5.548					

5.548

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
33 - 33.4 GHz						
FIXED 5.547A	FIXED 5.547A	ECC/REC/(11)01	High Density FS		EN 302 217	Point-to-Point and Point-to-Multipoint
RADIONAVIGATION	INTER-SATELLITE	ERC/REC/(01)02			EN 302 326	
5.547	RADIONAVIGATION 5.547					
5.547E	3.547					
33.4 - 34.2 GHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			Harmonised military band for radiolocation systems
5.549	EU2 EU27		Radiodetermination applications			
			Surveying and measurement			
34.2 - 34.7 GHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			Harmonised military band for radiolocation systems
SPACE RESEARCH (deep space) (E/S)	SPACE RESEARCH (deep space) (E/S)					
5.549	EU2		Radiodetermination applications			
	EU27		Surveying and measurement			
34.7 - 35.2 GHz						
RADIOLOCATION	RADIOLOCATION		Defence systems			Harmonised military band for radiolocation systems
Space research 5.550 5.549	Space research EU2		Radiodetermination applications			
	EU27		Surveying and measurement			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
35.2 - 35.5 GHz						
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		Active sensors (satellite)			Rain radar from satellites
RADIOLOCATION	RADIOLOCATION		Defence systems			Harmonised military band for
5.549	EU2					radiolocation systems
	EU27					
35.5 - 36 GHz						
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-		Active sensors (satellite)			
(active)	SATELLITE (active)					
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		Defence systems			Harmonised military band for Radiolocation systems
RADIOLOCATION	RADIOLOCATION					
SPACE RESEARCH (active)	SPACE RESEARCH (active)					
5.549	5.549A EU2					
5.549A	EU27					
36 - 37 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Defence systems			Harmonised military band for fixed and mobile systems
FIXED	FIXED		Danaharan (antaliita	. \		FF00
MOBILE	MOBILE		Passive sensors (satellite)		EESS surface emmissivity, snow, sea ice and precipitation
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		Dadia astronomo			The decree of the second of th
	Radio astronomy		Radio astronomy			Hydrogen cyanide and Hydroxil lines 36.43-36.50 GHz
5.149	5.149 EU27					

5.550A

5.550A

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
37 - 37.5 GHz						
FIXED	FIXED		Defence systems			Low and medium capacity fixed links
MOBILE SPACE OPERATION (S/E)	SPACE RESEARCH (S/E)	T/R 12-01	High density fixed links		EN 302 217	Major use by civil Fixed Service Systems
5.547	5.547 EU2					
37.5 - 38 GHz						
FIXED	FIXED		Defence systems			Low and medium capacity fixed links
FIXED-SATELLITE (S/E) MOBILE	FIXED-SATELLITE (S/E) SPACE RESEARCH (S/E)	ERC/DEC/(00)02	FSS			Uncoordinated Earth stations shall
SPACE RESEARCH (S/E)	Earth exploration-satellite (S/E)					not claim protection from the Fixed Service
Earth exploration-satellite (S/E) 5.547	5.547 EU2	T/R 12-01	High density fixed links		EN 302 217	Major use by civil Fixed Service Systems
38 - 39.5 GHz						
FIXED	FIXED		Defence systems			Low and medium capacity fixed links
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	ERC/DEC/(00)02	FSS			Uncoordinated Earth stations shall
MOBILE Earth exploration-satellite (S/E)	Earth exploration-satellite (S/E)	. ,				not claim protection from the Fixed Service
5.547	5.547 EU2	T/R 12-01	High density fixed links		EN 302 217	Major use by civil Fixed Service Systems

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
39.5 - 40 GHz FIXED FIXED-SATELLITE (S/E) 5.516B MOBILE MOBILE-SATELLITE (S/E) Earth exploration-satellite (S/E) 5.547	FIXED FIXED-SATELLITE (S/E) 5.516B MOBILE MOBILE-SATELLITE (S/E) Earth exploration-satellite (S/E) 5.547 EU2	ERC/DEC/(00)02	FSS			Earth stations
40 - 40.5 GHz EARTH EXPLORATION-SATELLITE (E/S) FIXED FIXED-SATELLITE (S/E) 5.516B MOBILE MOBILE-SATELLITE (S/E) SPACE RESEARCH (E/S)	FIXED FIXED-SATELLITE (S/E) 5.516B MOBILE MOBILE-SATELLITE (S/E) SPACE RESEARCH (E/S) Earth exploration-satellite (S/E)	ERC/DEC/(00)02	Broadband mobile systen FSS	ns		Possible future band Earth stations

Earth exploration-satellite (S/E)

EU2

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
40.5 - 41 GHz						
BROADCASTING	BROADCASTING	ECC/DEC/(02)04	FSS			
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	ECC/REC/(01)04	MWS		EN 301 997	
FIXED FIXED-SATELLITE (S/E)	FIXED	ERC/DEC/(99)15			EN 302 217	
Mobile						
5.547	5.547					
41 - 42 GHz						
BROADCASTING	BROADCASTING BROADCASTING-SATELLITE	ECC/DEC/(02)04	FSS			
BROADCASTING-SATELLITE FIXED		ECC/REC/(01)04	MWS		EN 301 997	
FIXED-SATELLITE (S/E)	FIXED	ERC/DEC/(99)15			EN 302 217	
Mobile						
5.547	5.547					
5.551F						
42 - 42.5 GHz						
BROADCASTING	BROADCASTING	ECC/DEC/(02)04	FSS			
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	ECC/REC/(01)04	MWS		EN 301 997	
FIXED FIXED-SATELLITE (S/E)	FIXED	ERC/DEC/(99)15			EN 302 217	
Mobile (6/2)						
5.547	5.551H					
5.551F	5.5511					
5.551H						
5.5511						

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
42.5 - 43.5 GHz						
FIXED	FIXED		Broadband mobile syster	ms		Possible future band
FIXED-SATELLITE (E/S) 5.552 MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	ECC/DEC/(02)04	FSS			For fixed applications. Priority for civil networks
RADIO ASTRONOMY 5.149 5.547	RADIO ASTRONOMY 5.149 5.547	ECC/REC/(01)04 ERC/DEC/(99)15	MWS		EN 301 997 EN 302 217	
			Radio astronomy			Silicon monoxide lines and many other spectral lines in this band
43.5 - 45.5 GHz						
MOBILE 5.553	MOBILE 5.553		Defence systems			Harmonised military band for satellite uplinks and mobile systems
MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE	MOBILE-SATELLITE Fixed-satellite					
5.554	5.554 EU27					
45.5 45.0U						
45.5 - 47 GHz	MODII E E EEO					
MOBILE 5.553	MOBILE 5.553					

MOBILE-SATELLITE

RADIONAVIGATION

5.554

RADIONAVIGATION-SATELLITE

MOBILE-SATELLITE

RADIONAVIGATION

5.554

RADIONAVIGATION-SATELLITE

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
47 - 47.2 GHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
AMATEUR-SATELLITE	AMATEUR-SATELLITE		Amateur Satellite			
47.2 - 47.5 GHz						
FIXED	FIXED		Feeder links			For 40 GHz Broadcasting satellites
FIXED-SATELLITE (E/S) 5.552 MOBILE	FIXED-SATELLITE (E/S) 5.552 MOBILE		FSS			For fixed applications. Priority for civil networks
5.552A	5.552A		HAPS			
		ERC/REC 25-10	SAP/SAB			
47.5 - 47.9 GHz						
FIXED	FIXED		Feeder links			For 40 GHz Broadcasting satellites
FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B 5.554A	FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B 5.554A	ECC/DEC/(05)08	High Density FSS			
MOBILE	MOBILE	ERC/REC 25-10	SAP/SAB			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
47.9 - 48.2 GHz						
FIXED	FIXED		Feeder links			For 40 GHz Broadcasting satellites
FIXED-SATELLITE (E/S) 5.552 MOBILE 5.552A	E/S) 5.552 FIXED-SATELLITE (E/S) 5.552 MOBILE 5.552A		FSS			For fixed applications. Priority for civil networks
5.55ZA			HAPS			
		ERC/REC 25-10	SAP/SAB			
48.2 - 48.54 GHz						
FIXED	FIXED		Feeder links			For 40 GHz Broadcasting satellites
FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B 5.554A 5.555B	FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B 5.554A 5.555B MOBILE	ERC/REC 12-10	Fixed links			From 48.50 to 48.54 GHz
MOBILE		ECC/DEC/(05)08	High Density FSS			
		ERC/REC 25-10	SAP/SAB			
48.54 - 49.44 GHz						
FIXED FIXED-SATELLITE (E/S) 5.552	FIXED FIXED-SATELLITE (E/S) 5.552		Feeder links			48.5-49.2 GHz for 40 GHz Broadcasting satellites
MOBILE	MOBILE	ERC/REC 12-10	Fixed links		EN 302 217	
5.149	RADIO ASTRONOMY 5.149 5.340		FSS			For fixed applications. Priority for civil networks
5.340 5.555	5.555		Radio astronomy			Carbon monosulphide line 48.94- 49.4 GHz
		ERC/REC 25-10	SAP/SAB	EU17A		

European Common Allocation	measures	Application	European footnotes	Standard	Notes
FIXED	ERC/REC 12-10	Fixed links		EN 302 217	
FIXED-SATELLITE (E/S) 5.552 5.338A (S/E) 5.516B 5.554A 5.555B	ECC/DEC/(05)08	High Density FSS			
MOBILE	ERC/REC 25-10	SAP/SAB	EU17A		
EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340		Passive sensors (sate	ellite)		Atmospheric temperature sounding. Terrestrial passive radiometers. Reference window for the 52.6-59.3 GHz band
FIXED FIXED-SATELLITE (E/S) 5.338A Mobile-satellite (E/S)		Future satellite and terrestrial applications	S		Shared civil and non civil allocation
	FIXED-SATELLITE (E/S) 5.552 5.338A (S/E) 5.516B 5.554A 5.555B MOBILE EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340 FIXED FIXED FIXED-SATELLITE (E/S) 5.338A	FIXED-SATELLITE (E/S) 5.552 5.338A (S/E) 5.516B 5.554A 5.555B MOBILE EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340 FIXED FIXED FIXED FIXED FIXED FIXED FIXED FIXED-SATELLITE (E/S) 5.338A	FIXED-SATELLITE (E/S) 5.552 5.338A (S/E) 5.516B 5.554A 5.555B MOBILE ERC/REC 25-10 SAP/SAB EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340 FIXED FIXED F	FIXED-SATELLITE (E/S) 5.552 5.338A (S/E) 5.516B 5.554A 5.555B MOBILE ERC/REC 25-10 SAP/SAB EU17A EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340 FIXED FIXED FIXED-SATELLITE (E/S) 5.338A ECC/DEC/(05)08 High Density FSS ECC/DEC/(05)08 High Density FSS Future satellite and terrestrial applications	FIXED-SATELLITE (E/S) 5.552 5.338A (S/E) 5.516B 5.554A 5.555B MOBILE ERC/REC 25-10 SAP/SAB EU17A EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340 FIXED FIXED FIXED-SATELLITE (E/S) 5.338A Future satellite and terrestrial applications

EU2

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
51.4 - 52.6 GHz						
FIXED 5.338A	FIXED 5.338A	ERC/REC 12-11	High density fixed links		EN 302 217	
MOBILE	MOBILE					
	RADIO ASTRONOMY					
5.547	5.547					
5.556	5.556					
52.6 - 54.25 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive)		Passive sensors (satellite	e) 		Atmospheric temperature sounding. Terrestrial passive radiometers
5.340	5.340					
5.556	5.556					
54.25 - 55.78 GHz EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-		Passive sensors (satellite	e)		Atmospheric temperature sounding.
(passive) INTER-SATELLITE 5.556A	SATELLITE (passive)					Terrestrial passive radiometers
	SPACE RESEARCH (passive)					
SPACE RESEARCH (passive)						

5.556B

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
55.78 - 56.9 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	ERC/REC 12-12	High density fixed links		EN 302 217	
FIXED 5.557A	FIXED 5.557A		Passive sensors (satellite)		Atmospheric temperature sounding
INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A					
MOBILE 5.558	SPACE RESEARCH (passive)					
SPACE RESEARCH (passive)						
5.547	5.547 EU21					
5.557	5.558					
56.9 - 57 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	ERC/REC 12-12	High density fixed links		EN 302 217	
FIXED	FIXED		Passive sensors (satellite)		Atmospheric temperature sounding
INTER-SATELLITE 5.558A	MOBILE 5.558					
MOBILE 5.558	SPACE RESEARCH (passive)					
SPACE RESEARCH (passive)						
5.547	5.547 EU21					
5.557	5.558A					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
57 - 58.2 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	ECC/REC/(09)01	High density fixed links		EN 302 217	Un-coordinated deployment
FIXED	FIXED		Passive sensors (satellite))		Atmospheric temperature sounding
INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A					
MOBILE 5.558	MOBILE 5.558	ECC/DEC/(11)02	Radiodetermination applications		EN 302 372	Within the band 57-64 GHz for TLPR and LPR applications
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	ERC/REC 70-03	αρριισατιστίσ		EN 302 729	and En ix applications
5.547	5.547	ERC/REC 70-03	Wideband Data		EN 302 567	
5.557			Transmission Systems			
58.2 - 59 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	ECC/REC/(09)01	High density fixed links		EN 302 217	Un-coordinated deployment
FIXED	FIXED		Passive sensors (satellite))		Atmospheric temperature sounding.
MOBILE	RADIO ASTRONOMY		,			Terrestrial passive radiometers
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	ECC/DEC/(11)02	Radiodetermination		EN 302 372	Within the band 57-64 GHz for TLPR
5.547	5.547 EU6	ERC/REC 70-03	applications		EN 302 729	and LPR applications
5.556	5.556 EU19					

ERC/REC 70-03

Wideband Data Transmission Systems EN 302 567

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
59 - 59.3 GHz						
EARTH EXPLORATION-SATELLITE (passive) FIXED	EARTH EXPLORATION- SATELLITE (passive) FIXED		Defence systems			Frequency band 59-61 GHz is a harmonised military band for fixed, mobile and radiolocation systems
INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A	ECC/REC/(09)01	High density fixed links		EN 302 217	
MOBILE 5.558	MOBILE 5.558					
RADIOLOCATION 5.559 SPACE RESEARCH (passive)			Passive sensors (satellite	•)		Atmospheric temperature sounding. Terrestrial passive radiometers
,	EU2	ECC/DEC/(11)02	Radiodetermination		EN 302 372	Within the band 57-64 GHz for TLPR
	EU27	ERC/REC 70-03	applications		EN 302 729	and LPR applications
		ERC/REC 70-03	Wideband Data Transmission Systems		EN 302 567	
59.3 - 62 GHz						
FIXED INTER-SATELLITE MOBILE 5.558	FIXED INTER-SATELLITE MOBILE 5.558		Defence systems			Frequency band 59-61 GHz is a harmonised military band for fixed, mobile and radiolocation systems
RADIOLOCATION 5.559	RADIOLOCATION 5.559	ECC/REC/(09)01	High density fixed links		EN 302 217	
5.138	5.138 EU2 EU27		ISM			Within the band 61.0-61.5 GHz
	2027	ERC/REC 70-03	Non-Specific SRDs			Within the band 61.0-61.5 GHz
		ECC/DEC/(11)02	Radiodetermination		EN 302 372	Within the band 57-64 GHz for TLPR
		ERC/REC 70-03	applications		EN 302 729	and LPR applications
		ERC/REC 70-03	Wideband Data Transmission Systems		EN 302 567	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
62 - 63 GHz						
FIXED INTER-SATELLITE	INTER-SATELLITE MOBILE 5.558		Broadband mobile systen	ns		For connection to IBCN paired with 65-66 GHz
MOBILE 5.558	OBILE 5.558 RADIOLOCATION 5.559 ADIOLOCATION 5.559 FIXED EU2		Defence systems			
NADIOLOGATION 3.339		ECC/REC/(09)01	High density fixed links		EN 302 217	
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 57-64 GHz for TLPR and LPR applications
			Wideband Data Transmission Systems			
63 - 64 GHz						
FIXED	INTER-SATELLITE		Defence systems			
INTER-SATELLITE MOBILE 5.558	MOBILE 5.558 RADIOLOCATION 5.559	ECC/REC/(09)01	High density fixed links		EN 302 217	
RADIOLOCATION 5.559	FIXED	ECC/DEC/(09)01	ITS		EN 302 686	
	EU2	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 57-64 GHz for TLPR and LPR applications
		ECC/DEC/(02)01 ERC/REC 70-03	RTTT			Road Transport and Traffic Telematic Vehicle to road/vehicle to vehicle
		ERC/REC 70-03	Wideband Data Transmission Systems		EN 302 567	
64 - 65 GHz						
FIXED	FIXED	ECC/REC/(05)02	High density fixed links		EN 302 217	
INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556	INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556	ERC/REC 70-03	Wideband Data Transmission Systems		EN 302 567	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
65 - 66 GHz EARTH EXPLORATION-SATELLITE FIXED	EXPLORATION-SATELLITE SATELLITE ATELLITE except aeronautical mobile EARTH EXPLORATION- SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile		Broadband mobile systen	ns		For connection to IBCN paired with 62-63 GHz
INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH		ECC/REC/(05)02 ERC/REC 70-03	High density fixed links Wideband Data		EN 302 217 EN 302 567	
5.547			Transmission Systems			
66 - 71 GHz INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554		Future civil systems			
71 - 74 GHz FIXED FIXED-SATELLITE (S/E)	FIXED FIXED-SATELLITE (S/E)		Defence systems			Harmonised military band. Pairing with 81-84 GHz is envisaged
MOBILE MOBILE-SATELLITE (S/E)	MOBILE MOBILE-SATELLITE (S/E) EU27		Fixed links			

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
74 - 75.5 GHz						
BROADCASTING	BROADCASTING	ECC/REC/(05)07	Fixed links		EN 302 217	
BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (S/E)	BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (S/E) MOBILE Space research (S/E)	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
MOBILE Space research (S/E)			Space Research			VLBI measurements within the band 74-84 GHz
5.561	5.561					
75.5 - 76 GHz						
BROADCASTING	BROADCASTING		Amateur	EU35	EN 301 783	
BROADCASTING-SATELLITE FIXED	BROADCASTING-SATELLITE FIXED		Amateur Satellite			
FIXED-SATELLITE (S/E) MOBILE	FIXED-SATELLITE (S/E) Amateur	ECC/REC/(05)07	Fixed links		EN 302 217	
Space research (S/E) 5.561	Amateur-satellite 5.561 EU2	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
	EU35		Space Research			VLBI

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
76 - 77.5 GHz						
RADIO ASTRONOMY	RADIO ASTRONOMY		Amateur		EN 301 783	
RADIOLOCATION Amateur	RADIOLOCATION Amateur		Amateur Satellite			
Amateur-satellite	Amateur-satellite Space research (S/E)		Civil radiolocation			
Space research (S/E) 5.149 Space research (S/E) 5.149 EU2	. ,		Radio astronomy			Spectral line and wide band continuum observations
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
		ECC/DEC/(02)01 ERC/REC 70-03	RTTT		EN 301 091	Within the band 76-77 GHz Radar. Road Transport and Traffic Telematic
		ECC/DEC/(04)03	SRR		EN 302 264	
77.5 - 78 GHz						
AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		Radio astronomy			Spectral line and wide band continuum observations
Radio astronomy Space research (S/E)	Space research (S/E)	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
5.149	5.149	ECC/DEC/(04)03	SRR		EN 302 264	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
78 - 79 GHz						
RADIOLOCATION Amateur	RADIOLOCATION Amateur		Civil and military radiolocation			
Amateur-satellite Radio astronomy	Amateur-satellite Radio astronomy		Radio astronomy			Spectral line and wide band continuum observations
Space research (S/E) 5.149	Space research (S/E) 5.149 EU2	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
5.560	5.560	ECC/DEC/(04)03	SRR		EN 302 264	
79 - 81 GHz						
RADIO ASTRONOMY RADIOLOCATION	RADIO ASTRONOMY RADIOLOCATION		Civil and military radiolocation			
Amateur Amateur-satellite (S/E)	Amateur Amateur-satellite (S/E)		Radio astronomy			Spectral line and wide band continuum observations
Space research (S/E) 5.149	5.149 EU2	ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
		ECC/DEC/(04)03	SRR		EN 302 264	

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
81 - 84 GHz						
FIXED	FIXED		Amateur		EN 301 783	Within the band 81-81.5 GHz
FIXED-SATELLITE (E/S) MOBILE	FIXED-SATELLITE (E/S) MOBILE		Amateur Satellite			Within the band 81-81.5 GHz
MOBILE-SATELLITE (E/S) RADIO ASTRONOMY	MOBILE-SATELLITE (E/S) RADIO ASTRONOMY		Defence systems			Harmonised military band. Paring with 71-74 GHz is envisaged
Space research (S/E) 5.149	Space research (S/E) 5.149 EU27	ECC/REC/(05)07	Fixed links		EN 302 217	
5.561A	5.561A		Radio astronomy			Spectral line and wide band continuum observations
		ECC/DEC/(11)02 ERC/REC 70-03	Radiodetermination applications		EN 302 372 EN 302 729	Within the band 75-85 GHz for TLPR and LPR applications
84 - 86 GHz						
FIXED	FIXED	ECC/REC/(05)07	Fixed links		EN 302 217	
FIXED-SATELLITE (E/S) 5.561B MOBILE	FIXED-SATELLITE (E/S) MOBILE		Radio astronomy			Spectral line and wide band continuum observations
RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149	ERC/REC 70-03	Radiodetermination applications		EN 302 372	Within the band 75-85 GHz for TLPR application
86 - 92 GHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY		Passive sensors (satellite)			Measurement of clouds, oil spills, ice, snow, rain, reference window for the temperature sounding near 118
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					GHz. Continuum and spectral line
5.340	5.340		Radio astronomy			measurements Continuum and spectral line measurements

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
92 - 94 GHz						
FIXED	FIXED		Radio astronomy			Diazenylium line and numerous
MOBILE	MOBILE					other spectral lines including wide band continuum observations
RADIO ASTRONOMY	RADIO ASTRONOMY					
RADIOLOCATION	RADIOLOCATION					
5.149	5.149 EU2					
94 - 94.1 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION	EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION		Active sensors (satellite) Space Research (active)			Cloud radars
SPACE RESEARCH (active) Radio astronomy	SPACE RESEARCH (active) Radio astronomy					
5.562	5.562 EU2					
5.562A	5.562A					
94.1 - 95 GHz						
FIXED	FIXED		Radio astronomy			Spectral line and wide band
MOBILE	MOBILE					continuum observations
RADIO ASTRONOMY	RADIO ASTRONOMY					
RADIOLOCATION	RADIOLOCATION					
5.149	5.149 EU2					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
95 - 100 GHz						
FIXED	FIXED		Radio astronomy			Multiple line observations including
MOBILE	MOBILE					wide band continuum observations
RADIO ASTRONOMY	RADIO ASTRONOMY					
RADIOLOCATION	RADIOLOCATION					
RADIONAVIGATION	RADIONAVIGATION					
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE					
5.149	5.149 EU2					
5.554	5.554					
100 - 102 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Passive sensors (satell	lite)		Limb sounding of atmospheric constituents
RADIO ASTRONOMY	RADIO ASTRONOMY		Radio astronomy			Spectral line and wide band
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		readio astronomy			continuum observations
5.340	5.340					
5.341	5.341					
102 - 105 GHz						
FIXED	FIXED		Radio astronomy			Spectral line and wide band continuum observations
MOBILE	MOBILE					
RADIO ASTRONOMY	RADIO ASTRONOMY					
5.149	5.149					
5.341	5.341					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
105 - 109.5 GHz						
FIXED	FIXED					
MOBILE	MOBILE					
RADIO ASTRONOMY	RADIO ASTRONOMY					
SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B					
5.149	5.149					
5.341	5.341					

109.5 - 111.8 GHz

EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	Radio astronomy	Observations of CO lines at 109.8 and 110.2 GHz and for continuum
RADIO ASTRONOMY	RADIO ASTRONOMY		observations

SPACE RESEARCH (passive) SPACE RESEARCH (passive) 5.340 5.340

5.340 5.341 5.341

111.8 - 114.25 GHz

FIXED	FIXED
MOBILE	MOBILE

RADIO ASTRONOMY RADIO ASTRONOMY

SPACE RESEARCH (passive) SPACE RESEARCH (passive) 5.562B 5.562B

 5.562B
 5.562B

 5.149
 5.149

 5.341
 5.341

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	harmonisation measures	Application	European footnotes	Standard	Notes
114.25 - 116 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Radio astronomy			Observations of the 115.3 GHz CO line
RADIO ASTRONOMY	RADIO ASTRONOMY					
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
5.340	5.340					
5.341	5.341					
116 - 119.98 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Passive sensors (satellit	te)		Passive sensing as part of the oxygen absorption band with peak at
INTER-SATELLITE 5.562C	INTER-SATELLITE 5.562C					118.75 GHz
SPACE RESEARCH (passive)						
5.341	5.341					
119.98 - 120.02 GHz						
EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C	EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562C		Passive sensors (satellit	te)		Passive sensing as part of the oxygen absorption band with peak at 118.75 GHz
SPACE RESEARCH (passive)						

ECC/ERC

5.341

5.341

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
120.02 - 122.25 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	ERC/REC 70-03	Non-Specific SRDs			Within the band 122-123 GHz
INTER-SATELLITE 5.562C SPACE RESEARCH (passive)	INTER-SATELLITE 5.562C SPACE RESEARCH (passive)		Passive sensors (satellite)		Passive sensing as part of the oxygen absorption band with peak at 118.75 GHz
5.138	5.138					
122.25 - 123 GHz						
FIXED	FIXED		Amateur		EN 301 783	
INTER-SATELLITE MOBILE 5.558	INTER-SATELLITE MOBILE 5.558		Amateur Satellite			
Amateur	Amateur Amateur-satellite	ERC/REC 70-03	Non-Specific SRDs			Within the band 122-123 GHz
5.138	5.138					

FIXED-SATELLITE (S/E)

MOBILE-SATELLITE (S/E)

RADIONAVIGATION

RADIONAVIGATION-SATELLITE

Radio astronomy

5.554

FIXED-SATELLITE (S/E)

MOBILE-SATELLITE (S/E)

RADIONAVIGATION

RADIONAVIGATION-SATELLITE

Radio astronomy

5.554

footnotes applicable to CEPT	European Common Allocation	measures	Application	footnotes	Standard	Notes
126 - 130 GHz						
	FIVED OATELLITE (O/E)					
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)					
MOBILE-SATELLITE (S/E)	MOBILE-SATELLITE (S/E)					
RADIONAVIGATION	RADIONAVIGATION					
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE					
Radio astronomy 5.562D	Radio astronomy					
5.149	5.149					
5.554	5.554					
130 - 134 GHz						
EARTH EXPLORATION-SATELLITE (active) 5.562E	EARTH EXPLORATION- SATELLITE (active) 5.562E		Radio astronomy			Spectral line and wide band continuum observations
FIXED	FIXED					
INTER-SATELLITE	INTER-SATELLITE					
MOBILE 5.558	MOBILE 5.558					
RADIO ASTRONOMY	RADIO ASTRONOMY					
5.149	5.149					
5.562A	5.562A					
134 - 136 GHz						
AMATEUR	AMATEUR		Amateur		EN 301 783	
AMATEUR-SATELLITE	AMATEUR-SATELLITE					

Amateur Satellite

European

ECC/ERC

harmonisation

RR Region 1 Allocation and RR

Radio astronomy

Radio astronomy

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
136 - 141 GHz						
RADIO ASTRONOMY	RADIO ASTRONOMY		Amateur		EN 301 783	
RADIOLOCATION	RADIOLOCATION		Amataur Catallita			
Amateur	Amateur		Amateur Satellite			
Amateur-satellite	Amateur-satellite		Radio astronomy			Spectral line and wide band
5.149	5.149					continuum observations
141 - 148.5 GHz						
FIXED	FIXED		Radio astronomy			Spectral line and wide band
MOBILE	MOBILE					continuum observations
RADIO ASTRONOMY	RADIO ASTRONOMY					
RADIOLOCATION	RADIOLOCATION					
5.149	5.149					
148.5 - 151.5 GHz						
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-		Passive sensors (satellite	<u>.</u>)		Harmonised reference window for
(passive)	SATELLITE (passive)		. 235170 concord (outomic	·,		passive sensor observations
RADIO ASTRONOMY	RADIO ASTRONOMY					
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					

5.340

5.340

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
151.5 - 155.5 GHz						
FIXED	FIXED		Radio astronomy			Spectral line and wide band continuum observations
MOBILE	MOBILE					
RADIO ASTRONOMY	RADIO ASTRONOMY					
RADIOLOCATION	RADIOLOCATION					
5.149	5.149					
155.5 - 158.5 GHz EARTH EXPLORATION-SATELLITE (passive) 5.562F FIXED MOBILE	EARTH EXPLORATION- SATELLITE (passive) 5.562F FIXED MOBILE		Passive sensors (satellite Radio astronomy	e)		Protection until 1.1.2018 Spectral line and wide band continuum observations
RADIO ASTRONOMY	RADIO ASTRONOMY					
SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B					
5.149	5.149					
5.562G	5.562G					
158.5 - 164 GHz						
FIXED	FIXED					
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)					
MOBILE	MOBILE					
MOBILE-SATELLITE (S/E)	MOBILE-SATELLITE (S/E)					

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
164 - 167 GHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY		Passive sensors (satellite)			Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz. Atmospheric limb sounding of the

167 - 168 GHz

5.340

SPACE RESEARCH (passive)

FIXED FIXED

FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

SPACE RESEARCH (passive)

5.340

168 - 170 GHz

FIXED FIXED

FIXED-SATELLITE (S/E) FIXED-SATELLITE (S/E)

INTER-SATELLITE INTER-SATELLITE

MOBILE 5.558 MOBILE 5.558

5.149 5.149

164.38 GHz CO line

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes	
170 - 174.5 GHz							
EIVED	EIVED						

FIXED FIXED

FIXED-SATELLITE (S/E) FIXED-SATELLITE (S/E)

INTER-SATELLITE INTER-SATELLITE

MOBILE 5.558 MOBILE 5.558

5.149 5.149

174.5 - 174.8 GHz

5.562D

FIXED FIXED

INTER-SATELLITE INTER-SATELLITE MOBILE 5.558 MOBILE 5.558

174.8 - 182 GHz

EARTH EXPLORATION-SATELLITE (passive)

EARTH EXPLORATION- Passive sensors (satellite)

Passive sensors (satellite)

Passive sensing of the water vapour absorption line whose peak is at 1NTER-SATELLITE 5.562H

SPACE RESEARCH (passive)

SPACE RESEARCH (passive)

SPACE RESEARCH (passive)

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
182 - 185 GHz						
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY		Passive sensors (satellite)			Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz
SPACE RESEARCH (passive) 5.340	SPACE RESEARCH (passive) 5.340					
185 - 190 GHz						
EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H	EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562H		Passive sensors (satellite)			Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
100 101 9 CU-						
190 - 191.8 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive)		Passive sensors (satellite))		Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz

5.340

5.340

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
191.8 - 200 GHz						
FIXED	FIXED					
INTER-SATELLITE	INTER-SATELLITE					
MOBILE 5.558	MOBILE 5.558					
MOBILE-SATELLITE	MOBILE-SATELLITE					
RADIONAVIGATION	RADIONAVIGATION					
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE					
5.149	5.149					
5.341	5.341					
5.554	5.554					
200 - 202 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		EESS			Atmospheric limb sounding and atmospheric remote sensing of
RADIO ASTRONOMY	RADIO ASTRONOMY					nitrous oxide at 201 GHz
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		Radio astronomy			Spectral line and wide band
5.340	5.340		·			continuum observations
5.341	5.341					
5.563A	5.563A					
202 - 209 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		EESS			Atmospheric limb sounding and atmospheric remote sensing of
RADIO ASTRONOMY	RADIO ASTRONOMY					water vapour at 203.4 GHz and ozone at 208.5 GHz
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
5.340	5.340					
5.341	5.341					

ECC/ERC

5.563A

5.563A

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
209 - 217 GHz						
FIXED	FIXED		Radio astronomy			Spectral line and wide band
FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)					continuum observations
MOBILE	MOBILE					
RADIO ASTRONOMY	RADIO ASTRONOMY					
5.149	5.149					
5.341	5.341					
217 - 226 GHz						
FIXED	FIXED					
FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)					
MOBILE	MOBILE					
RADIO ASTRONOMY	RADIO ASTRONOMY					
SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B					
5.149	5.149					
5.341	5.341					
226 - 231.5 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Passive sensors (satelli	te)		Atmospheric limb sounding. Reference window for higher
RADIO ASTRONOMY	RADIO ASTRONOMY					frequency water vapour measurements
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
5.340	5.340		Radio astronomy			Observations of the 230.5 GHz CO

ECC/ERC

line

RR Region 1 Allocation and RR		harmonisation		European			
footnotes applicable to CEPT	European Common Allocation	measures	Application	footnotes	Standard	Notes	

ECC/ERC

231.5 - 232 GHz

FIXED FIXED

MOBILE MOBILE

Radiolocation Radiolocation

232 - 235 GHz

FIXED FIXED

FIXED-SATELLITE (S/E) FIXED-SATELLITE (S/E)

5.563B

MOBILE MOBILE
Radiolocation Radiolocation

235 - 238 GHz

5.563B

EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	Passive sensors (satellite)	Passive sensing limited to microwave sounding	
FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	D. P. and an article of the second of the se	On a start Para and a Start based	
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Radio astronomy	Spectral line and wide band continuum observations	
5.563A	5.563A			

		ECC/ERC				
RR Region 1 Allocation and RR footnotes applicable to CEPT		harmonisation		European	Ctondoud	Notes
	European Common Allocation	measures	Application	footnotes	Standard	Notes

238 - 240 GHz

FIXED FIXED

FIXED-SATELLITE (S/E) FIXED-SATELLITE (S/E)

MOBILE MOBILE

RADIOLOCATION RADIOLOCATION
RADIONAVIGATION RADIONAVIGATION

RADIONAVIGATION-SATELLITE RADIONAVIGATION-SATELLITE

240 - 241 GHz

FIXED FIXED MOBILE MOBILE

RADIOLOCATION RADIOLOCATION

241 - 248 GHz

RADIO ASTRONOMY	RADIO ASTRONOMY		Amateur	EN 301 783
RADIOLOCATION	RADIOLOCATION			
Amateur	Amateur		Amateur Satellite	
Amateur-satellite	Amateur-satellite	ERC/REC 70-03	Non-Specific SRDs	Within the band 244-246 GHz
5.138	5.138			
5.149	5.149		Radio astronomy	Spectral line and wide band continuum observations

RR Region 1 Allocation and RR footnotes applicable to CEPT	European Common Allocation	ECC/ERC harmonisation measures	Application	European footnotes	Standard	Notes
248 - 250 GHz	AMATEUR		Acceleur		EN 004 700	
AMATEUR	AMATEUR		Amateur		EN 301 783	
AMATEUR-SATELLITE Radio astronomy	AMATEUR-SATELLITE Radio astronomy		Amateur Satellite			
5.149	5.149					
55	J					
250 - 252 GHz						
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		EESS			Limb sounding of nitrous oxide near 251 GHz
RADIO ASTRONOMY	RADIO ASTRONOMY					
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)					
5.340	5.340					
5.563A	5.563A					
252 - 265 GHz						
FIXED	FIXED		Radio astronomy			Spectral line and wide band
MOBILE	MOBILE					continuum observations
MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)					
RADIO ASTRONOMY	RADIO ASTRONOMY					
RADIONAVIGATION	RADIONAVIGATION					
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE					
5.149	5.149					
5.554	5.554					

RR Region 1 Allocation and RR harmonisation European
footnotes applicable to CEPT European Common Allocation measures Application footnotes Standard Notes

ECC/ERC

265 - 275 GHz

FIXED FIXED

FIXED-SATELLITE (E/S) FIXED-SATELLITE (E/S)

MOBILE MOBILE

RADIO ASTRONOMY RADIO ASTRONOMY

5.149 5.563A 5.563A

275 - 3000 GHz

Not allocated Not allocated

5.565 5.565

Annex 1 – European-footnotes included in the ECA Table

- Within the frequency band 20-108 MHz the common military tuning range is 30-87.5 MHz, however, some equipment types use the lower (20 MHz) and upper (108 MHz) limits, regulated on a national basis. The harmonised military bands are: -30.30-30.50 MHz; 32.15-32.45 MHz; 41.00-47.00 MHz; 73.30-74.10 MHz; 79.0-79.70 MHz. When providing for additional requirements, further blocks of frequencies should be spread out over the whole common military tuning range in order to supply frequencies for frequency hopping equipment and to support a larger force (corps size, three divisions). This should be done by the national frequency management organisation(s) concerned.

 EU2 Civil-military sharing.

 EU3 CEPT administrations are urged to take all practical steps to clear the band 47-68 MHz of assignments to the
- EU3 CEPT administrations are urged to take all practical steps to clear the band 47-68 MHz of assignments to the broadcasting service. The broadcasting assignments according to Stockholm Agreement 1961 shall be protected.
- EU4 CEPT administrations are urged to take all practical steps to clear the band 68 73 MHz of assignments to the broadcasting service. The broadcasting assignments according to the Final Acts of the Special Regional Conference, Geneva, 1961 shall be protected.
- EU5 In parts of this band aeronautical stations and aircraft stations may utilise 8.33 kHz channel spacing for non secure communications requirements.
- EU6 The mobile-satellite service is limited to low earth orbiting satellites.
- EU7 This band can also be used by low capacity fixed links in rural areas on a national basis. These links need to be coordinated with mobile service and require full protection.
- EU8 Any use of low capacity fixed links shall be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunication service.
- EU9 In a growing number of CEPT countries, parts of the band 70.0-70.5 MHz is also allocated to the Amateur service on a secondary basis.
- EU10 The mobile service in the harmonised military band 225-400 MHz generally comprises land, air maritime and satellite mobile applications.
- EU11 Not used.
- EU12 The applicable RR 5 footnotes remain in force. Administrations are however urged to aim for the fullest possible harmonisation with the ITU Table of Allocations and ECA.
- EU13 CEPT Administrations are urged to take all practical steps to clear the band 645-960 MHz of the assignments to the aeronautical radionavigation service.
- EU14 Radiolocation limited to military requirements for naval ship borne radars.
- EU15 In the frequency band 1350-2690 MHz tactical radio relay systems should be capable of tuning over the full range of this band. Requirements for tactical radio relay should be met from the following sub-bands: 1350-1400 MHz; 1427-1452 MHz; 1492-1525 MHz; 1660-1670 MHz; 1675-1710 MHz; 1785-1800 MHz; 2025-2110 MHz; 2200-2290 MHz; 2520-2575 MHz; 2615-2670 MHz. Tactical radio relay systems may operate in the bands 2520-2575 MHz and 2615-2670 MHz provided that they shall not cause harmful interference to terrestrial IMT and do not claim protection from them. The common requirement of 2 x 45 MHz for tactical radio relay for cross/near border operations and exercises should be met from 2025-2110 MHz and 2200-2290 MHz and in particular the bands 2025-2070 / 2200-2245 MHz.
- EU15A Use of the band by the mobile service is limited to tactical radio relay applications.
- EU16 On the introduction of IMT, the fixed service will become secondary in appropriate parts of the band.
- EU16A Use of the band by the mobile service is limited to tactical radio relay and SAP/SAB applications.
- EU17 In the sub-bands 3400 3410 MHz, 5660 5670 MHz, 10.36 10.37 GHz, 10.45 10.46 GHz the amateur service operates on a secondary basis. In making assignments to other services, CEPT administrations are requested wherever possible to maintain these sub-bands in such a way as to facilitate the reception of amateur emissions with minimal power flux densities.
- EU17A Use of the band by the mobile service is limited to SAP/SAB applications.
- EU18 This aeronautical radionavigation band shall be subject to further study to ascertain future requirements and developments.
- EU19 This band is allocated to the radio astronomy service. CEPT administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from space or airborne stations in this and adjacent bands can cause serious harmful interference.

EU20 This fixed service band is designated for common use by civil and non civil users. Any user priorities in respect of preferred channels or sub-bands are to be determined after discussions between interested parties. EU21 Not used. The band 5250-5850 MHz is utilised for a variety of radiodetermination applications falling within the EU22 radionavigation and radiolocation services. This band will be subject to further detailed consideration. EU23 In the sub-bands 5660-5670 MHz (earth to space), 5830-5850 MHz (space to earth) and 10.45-10.50 GHz the amateur-satellite additionally operates on a secondary and non interference basis to other services. In making assignments to other services, CEPT administrations are requested wherever possible to maintain these allocations in such a way as to facilitate the reception of amateur emissions with minimal power flux densities. EU24 The band 8500-10000 MHz is utilised for a variety of radiodetermination applications falling within the radionavigation and radiolocation services. This band will be subject to further detailed consideration in conjunction with the band 5250-5850 MHz (see EU20). EU25 Not used. The band 13.25-14.0 GHz is utilised for a variety of radiodetermination applications falling within the EU26 radionavigation and radiolocation services. This band will be subject to further detailed consideration. A frequency band that is in general military use in Europe and identified for major military utilisation in the EU27 ECA. Such a frequency band forms a basis for military use and planning. The band can be shared between civil and military users according to national requirements and legislation. EU28 CEPT administrations shall not deploy new fixed service systems in the band 11.7-12.5 GHz (ERC/DEC(00)08). EU29 The frequency bands 890-915 / 935-960 MHz, 880-890 / 925-935 MHz, 1710-1785 / 1805-1880 MHz, 1900-1980 MHz, 2010-2025 MHz and 2010-2170 MHz are reserved for public cellular mobile use only. Other services such as the fixed service should only be allowed in the above bands where coexistence with public mobile systems is possible i.e. in sparsely populated or rural areas where the frequency band is not needed for mobile cellular systems. EU30 National administrations should consider co-ordination zones around the EISCAT sites when using the band 925-935 MHz for mobile services including international planning for military services. Short Range Devices should not use this band. EU31 The band 440-470 MHz is the tuning range for Private Wide Area Paging (PWAP). The b^{an} ds 880 - 915 MHz and 925 - 960 MHz are currently used for GSM (2nd generation terrestrial mobile EU32 system) in most CEPT member countries and are expected to be used by IMT (3rd generation terrestrial mobile system), depending on the market demands and national licensing schemes. EU33 The band 1880-1900 MHz is generally expected to be used by IMT/DECT

Parts of the bands 450-457.5 / 460-467.5 MHz may also be used for existing and evolving public cellular

In Europe the band 75.5-76 GHz is also allocated to the Amateur and Amateur Satellite services.

EU34

EU35

networks on a national basis.

Annex 2 – ITU Radio Regulations footnotes for Region 1

- 5.53 Administrations authorizing the use of frequencies below 9 kHz shall ensure that no harmful interference is caused thereby to the services to which the bands above 9 kHz are allocated
- Administrations conducting scientific research using frequencies below 9 kHz are urged to advise other administrations that may be concerned in order that such research may be afforded all practicable protection from harmful interference.
- 5.55 Additional allocation: in Armenia, Azerbaijan, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the band 14-17 kHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- The stations of services to which the bands 14-19.95 kHz and 20.05-70 kHz and in Region 1 also the bands 72-84 kHz and 86-90 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, Bulgaria, the Russian Federation, Georgia, Kazakhstan, Mongolia, Kyrgyzstan, Slovakia, Tajikistan and Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-07)
- 5.57 The use of the bands 14-19.95 kHz, 20.05-70 kHz and 70-90 kHz (72-84 kHz and 86-90 kHz in Region 1) by the maritime mobile service is limited to coast radiotelegraph stations (A1A and F1B only). Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.
- 5.58 Additional allocation: in Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakstan, Kyrgyzstan, Tajikistan and Turkmenistan, the band 67-70 kHz is also allocated to the radionavigation service on a primary basis. (WRC-2000)
- 5.60 In the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.
- Administrations which operate stations in the radionavigation service in the band 90-110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.
- Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized for stations of the fixed service in the bands allocated to this service between 90 kHz and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile service in the bands allocated to this service between 110 kHz and 160 kHz (148.5 kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorized in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.
- 5.66 Different category of service: in Germany, the allocation of the band 115-117.6 kHz to the fixed and maritime mobile services is on a primary basis (see No. 5.33) and to the radionavigation service on a secondary basis (see No.5.32).
- 5.67 Additional allocation: in Mongolia, Kyrgyzstan and Turkmenistan, the band 130-148.5 kHz is also allocated to the radionavigation service on a secondary basis. Within and between these countries this service shall have an equal right to operate. (WRC-07)
- 5.67A Stations in the amateur service using frequencies in the band 135.7-137.8 kHz shall not exceed a maximum radiated power of 1 W (e.i.r.p.) and shall not cause harmful interference to stations of the radionavigation service operating in countries listed in No. 5.67. (WRC-07)
- 5.67B The use of the band 135.7-137.8 kHz in Algeria, Egypt, Iran (Islamic Republic of), Iraq, Libyan Arab Jamahiriya, Lebanon, Syrian Arab Republic, Sudan and Tunisia is limited to the fixed and maritime mobile services. The amateur service shall not be used in the above-mentioned countries in the band 135.7-137.8 kHz, and this should be taken into account by the countries authorizing such use. (WRC-07)
- Alternative allocation: in Angola, Burundi, Congo (Rep. of the), Malawi, the Dem. Rep. of the Congo, Rwanda and South Africa, the band 160-200 kHz is allocated to the fixed service on a primary basis. (WRC-03)
- 5.69 Additional allocation: in Somalia, the band 200-255 kHz is also allocated to the aeronautical radionavigation service on a primary basis.
- 5.70 Alternative allocation: in Angola, Botswana, Burundi, the Central African Rep., Congo (Rep. of the), Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Oman, the Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland, Tanzania, Chad, Zambia and Zimbabwe, the band 200-283.5 kHz is allocated to the aeronautical radionavigation service on a primary basis. (WRC-07)
- 5.71 Alternative allocation: in Tunisia, the band 255-283.5 kHz is allocated to the broadcasting service on a primary basis
- 5.72 Norwegian stations of the fixed service situated in northern areas (north of 60° N) subject to auroral disturbances are allowed to continue operation on four frequencies in the bands 283.5-490 kHz and 510-526.5 kHz.
- 5.73 The band 285-325 kHz (283.5-325 kHz in Region 1) in the maritime radionavigation service may be used to transmit supplementary navigational information using narrow-band techniques, on condition that no harmful interference is caused to radiobeacon stations operating in the radionavigation service. (WRC-97)
- 5.74 Additional Allocation: in Region 1, the frequency band 285.3-285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.
- 5.75 Different category of service: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Moldova, Kyrgyzstan, Tajikistan, Turkmenistan, Ukraine and the Black Sea areas of Romania, the allocation of the band 315-325 kHz to the maritime radionavigation service is on a primary basis under the condition that in the Baltic Sea area, the assignment of frequencies in this band to new stations in the maritime or aeronautical radionavigation services shall be subject to prior consultation between the administrations concerned. (WRC-07)
- 5.76 The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 405-415 kHz is allocated shall not cause harmful interference to radio direction-

- finding in the band 406.5-413.5 kHz.
- 5.79 The use of the bands 415-495 kHz and 505-526.5 kHz (505-510 kHz in Region 2) by the maritime mobile service is limited to radiotelegraphy.
- 5.79A When establishing coast stations in the NAVTEX service on the frequencies 490 kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to coordinate the operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution 339 (Rev.WRC-07)). (WRC-07)
- In the maritime mobile service, the frequency 490 kHz is to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy. The conditions for use of the frequency 490 kHz are prescribed in Articles 31 and 52. In using the band 415-495 kHz for the aeronautical radionavigation service, administrations are requested to ensure that no harmful interference is caused to the frequency 490 kHz. (WRC-07)
- 5.82A The use of the band 495-505 kHz is limited to radiotelegraphy. (WRC-07)
- 5.82B Administrations authorizing the use of frequencies in the band 495-505 kHz by services other than the maritime mobile service shall ensure that no harmful interference is caused to the maritime mobile service in this band or to the services having allocations in the adjacent bands, noting in particular the conditions of use of the frequencies 490 kHz and 518 kHz, as prescribed in Articles 31 and 52. (WRC-07)
- 5.84 The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles 31 and 52. (WRC-07)
- 5.87 Additional allocation: in Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland and Zimbabwe, the band 526.5-535 kHz is also allocated to the mobile service on a secondary basis. (WRC-03)
- 5.87A Additional allocation: in Uzbekistan, the band 526.5-1 606.5 kHz is also allocated to the radionavigation service on a primary basis. Such use is subject to agreement obtained under No. 9.21 with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-97)
- 5.90 In the band 1 605-1 705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.
- 5.92 Some countries in Region 1 use radiodetermination systems in the bands 1606.5-1625 kHz, 1635-1800 kHz, 1850-2160 kHz, 2194-2300 kHz, 2502-2850 kHz and 3500-3800 kHz, subject to agreement obtained under No 9.21. The radiated mean power of these stations shall not exceed 50 W.
- Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., Tajikistan, Chad, Turkmenistan and Ukraine, the bands 1 625-1 635 kHz, 1 800-1 810 kHz and 2 160-2 170 kHz are also allocated to the fixed and land mobile services on a primary basis, subject to agreement obtained under No. 9.21. (WRC-07)
- In Germany, Armenia, Austria, Azerbaijan, Belarus, Denmark, Estonia, Finland, Georgia, Hungary, Iceland, Ireland, Israel, Kazakhstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the United Kingdom, the Russian Federation, Sweden, Switzerland, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the bands 1 715-1 800 kHz and 1 850-2 000 kHz. However, when allocating the bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W. (WRC-03)
- 5.98 Alternative allocation: in Angola, Armenia, Azerbaijan, Belarus, Belgium, Cameroon, Congo (Rep. of the), Denmark, Egypt, Eritrea, Spain, Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, Moldova, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Tunisia, Turkmenistan, Turkey and Ukraine, the band 1 810-1 830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.99 Additional allocation: in Saudi Arabia, Austria, Iraq, the Libyan Arab Jamahiriya, Uzbekistan, Slovakia, Romania, Serbia, Slovenia, Chad, and Togo, the band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.100 In Region 1, the authorization to use the band 1 810-1 830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. 5.98 and 5.99 to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. 5.98 and 5.99.
- 5.101 Alternative allocation: in Burundi and Lesotho, the band 1 810-1 850 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- 5.103 In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1850-2045 kHz, 2194-2498 kHz, 2502-2 625 kHz and 2650-2850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.
- 5.104 In Region 1, the use of the band 2 025-2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
- 5.107 Additional allocation: in Saudi Arabia, Eritrea, Ethiopia, Iraq, the Libyan Arab Jamahiriya, Lesotho, Somalia and Swaziland, the band 2 160-2 170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W. (WRC-03)
- 5.108 The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5-2 190.5 kHz are prescribed in Articles 31 and 52. (WRC-07

- 5.109 The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article 31.
- 5.110 The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article 31
- 5.111 The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and the frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article 31.
 - The same applies to the frequencies $10\,003$ kHz, $14\,993$ kHz and $19\,993$ kHz, but in each of these cases emissions must be confined in a band of ± 3 kHz about the frequency. (WRC-07)
- 5.112 Alternative allocation: in Denmark, Malta, Serbia and Sri Lanka, the band 2 194-2 300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.113 For the conditions for the use of the bands 2 300-2 495 kHz (2 498 kHz in Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the broadcasting service, see Nos. 5.16 to 5.20, 5.21 and 23.3 to 23.10.
- 5.114 Alternative allocation: in Denmark, Iraq, Malta, and Serbia, the band 2 502-2 625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.115 The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article **31** by stations of the maritime mobile service engaged in coordinated search and rescue operations. (WRC-07)
- 5.116 Administrations are urged to authorize the use of the band 3 155-3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3 400 kHz to suit local needs.
 - It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.
- 5.117 Alternative allocation: in Côte d'Ivoire, Denmark, Egypt, Liberia, Malta, Serbia, Sri Lanka and Togo, the band 3 155-3 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.123 Additional allocation: in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 3 900-3 950 kHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21.
- 5.125 Additional allocation: in Greenland, the band 3 950-4 000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.
- 5.127 The use of the band 4 000-4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. 52.220 and Appendix 17).
- Frequencies in the bands 4 063-4 123 kHz and 4 130-4 438 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W, on condition that harmful interference is not caused to the maritime mobile service. In addition, in Afghanistan, Argentina, Armenia, Azerbaijan, Belarus, Botswana, Burkina Faso, the Central African Rep., China, the Russian Federation, Georgia, India, Kazakhstan, Mali, Niger, Kyrgyzstan, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4 063-4 123 kHz, 4 130-4 133 kHz and 4 408-4 438 kHz, stations in the fixed service, with a mean power not exceeding 1 kW, can be operated on condition that they are situated at least 600 km from the coast and that harmful interference is not caused to the maritime mobile service. (WRC-07)
- 5.130 The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are prescribed in Articles 31 and 52. (WRC-07)
- 5.131 The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques. (WRC-97)
- 5.132 The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the international frequencies for the transmission of maritime safety information (MSI) (see Appendix 17).
- 5.133 Different category of service: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Latvia, Lithuania, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5 130-5 250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. 5.33). (WRC-07)
- 5.134 The use of the bands 5 900-5 950 kHz, 7 300-7 350 kHz, 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 13 570-13 600 kHz, 13 800-13 870 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz by the broadcasting service is subject to the application of the procedure of Article 12. Administrations are encouraged to use these bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution 517 (Rev.WRC-07). (WRC-07)
- Additional allocation: Frequencies in the band 5 900-5 950 kHz may be used by stations in the following services, communicating only within the boundary of the country in which they are located: fixed service (in all three Regions), land mobile service (in Region 1), mobile except aeronautical mobile (R) service (in Regions 2 and 3), on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.137 On condition that harmful interference is not caused to the maritime mobile service, the bands 6 200-6 213.5 kHz and 6 220.5-

6 525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.

5.138 The following bands:

6 765 - 6 795 kHz (centre frequency 6 780 kHz),

433.05 - 434.79 MHz (centre frequency 433.92 MHz) in Region 1 except in the countries mentioned in No. 5.280,

61 - 61.5 GHz (centre frequency 61.25 GHz), 122 - 123 GHz (centre frequency 122.5 GHz), and 244 - 246 GHz (centre frequency 245 GHz)

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorisation by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

- 5.138A Until 29 March 2009, the band 6 765-7 000 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. After this date, this band is allocated to the fixed and the mobile except aeronautical mobile (R) services on a primary basis. (WRC-03).
- 5.139 Different category of service: until 29 March 2009, in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Latvia, Lithuania, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 6 765-7 000 kHz to the land mobile service is on a primary basis (see No. 5.33). (WRC-07)
- 5.140 Additional allocation: in Angola, Iraq, Kenya, Rwanda, Somalia and Togo, the band 7 000-7 050 kHz is also allocated to the fixed service on a primary basis. (WRC-03)
- 5.141 Alternative allocation: in Egypt, Eritrea, Ethiopia, Guinea, the Libyan Arab Jamahiriya and Madagascar, the band 7 000 7 050 kHz is allocated to the fixed service on a primary basis. (WRC-97)
- 5.141A Additional allocation: in Uzbekistan and Kyrgyzstan, the bands 7 000-7 100 kHz and 7 100-7 200 kHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-03)
- Additional allocation: after 29 March 2009, in Algeria, Saudi Arabia, Australia, Bahrain, Botswana, Brunei Darussalam, China, Comoros, Korea (Rep. of), Diego Garcia, Djibouti, Egypt, United Arab Emirates, Eritrea, Indonesia, Iran (Islamic Republic of), Japan, Jordan, Kuwait, the Libyan Arab Jamahiriya, Morocco, Mauritania, New Zealand, Oman, Papua New Guinea, Qatar, the Syrian Arab Republic, Singapore, Sudan, Tunisia, Viet Nam and Yemen, the band 7 100-7 200 kHz is also allocated to the fixed and the mobile, except aeronautical mobile (R), services on a primary basis. (WRC-03)
- 5.141C In Regions 1 and 3, the band 7 100-7 200 kHz is allocated to the broadcasting service until 29 March 2009 on a primary basis. (WRC-03)
- 5.142 Until 29 March 2009, the use of the band 7 100-7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. After 29 March 2009 the use of the band 7 200-7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. (WRC-03)
- Additional allocation: Frequencies in the band 7 300-7 350 kHz may be used by stations in the fixed service and in the land mobile service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.143B In Region 1, the band 7 350-7 450 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, on condition that harmful interference is not caused to the broadcasting service, frequencies in the band 7 350-7 450 kHz may be used by stations in the fixed and land mobile services communicating only within the boundary of the country in which they are located, each station using a total radiated power that shall not exceed 24 dBW. (WRC-03)
- 5.143C Additional allocation: after 29 March 2009 in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Iran (Islamic Republic of), the Libyan Arab Jamahiriya, Jordan, Kuwait, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, Tunisia and Yemen, the bands 7 350-7 400 kHz and 7 400-7 450 kHz are also allocated to the fixed service on a primary basis. (WRC-03)
- 5.143E Until 29 March 2009, the band 7 450-8 100 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. (WRC 03)
- 5.145 The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles 31 and 52. (WRC-07)
- Additional allocation: Frequencies in 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 may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.147 On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 775-9 900 kHz, 11 650-11 700 kHz and 11 975-12 050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

5.149 In making assignments to stations of other services to which the bands:

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13 360-13 410 KHz.
                                              10.6-10.68 GHz.
                                                                                 102-109.5 GHz,
      25 550-25 670 KHz,
                                              14.47-14.5 GHz,
                                                                                111.8-114.25 GHz,
       37.5-38.25 MHz,
                                              22.01-22.21 GHz,
                                                                               128.33-128.59 GHz,
                                              22.21-22.5 GHz,
                                                                               129.23-129.49 GHz,
73-74.6 MHz in regions 1 and 3,
                                                                                 130-134 GHz
 150.05-153 MHz in Region 1,
                                              22.81-22.86 GHz,
                                                                                 136-148.5 GHz,
       322-328.6 MHz,
                                              23.07-23.12 GHz,
                                                                                151.5-158.5 GHz,
       406.1-410 MHz.
                                              31.2-31.3 GHz.
                                                                               168.59-168.93 GHz,
                                    31.5-31.8 GHz in regions 1 and 3,
608-614 MHz in regions 1 and 3,
                                                                               171.11-171.45 GHz,
       1 330-1 400 MHz,
                                              36.43-36.5 GHz,
                                                                               172.31-172.65 GHz,
     1 610.6-1 613.8 MHz,
                                              42.5-43.5 GHz,
                                                                               173.52-173.85 GHz,
      1 660-1 670 MHz,
                                              42.77-42.87 GHz,
                                                                               195.75-196.15 GHz,
     1718.8-1722.2 MHz,
                                              43.07-43.17 GHz,
                                                                                  209-226 GHz,
                                              43.37-43.47 GHz,
      2 655-2 690 MHz,
                                                                                  241-250 GHz,
      3 260-3 267 MHz,
                                              48.94-49.04 GHz,
                                                                                  252-275 GHz
      3 332-3 339 MHz.
                                                76-86 GHz,
     3 345.8-3 352.5 MHz,
                                                92-94 GHz.
                                               94.1-100 GHz,
      4 825-4 835 MHz,
      4 950-4 990 MHz,
      4 990-5 000 MHz,
      6 650-6 675.2 MHz.
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are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. 4.5 and 4.6 and Article 29). (WRC-2000)

5.150 The following bands:

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      13 553 - 13 567 kHz
      (centre frequency 13 560 kHz),

      26 957 - 27 283 kHz
      (centre frequency 27 120 kHz),

      40.66 - 40.70 MHz
      (centre frequency 40.68 MHz),

      902 - 928 MHz
      in Region 2 (centre frequency 915 MHz),

      2 400 - 2 500 MHz
      (centre frequency 2 450 MHz),

      5 725 - 5 875 MHz
      (centre frequency 2 450 MHz), and

      24 - 24.25 GHz
      (centre frequency 24.125 GHz)
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are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. 15.13.

- Additional allocation: Frequencies in the bands 13 570-13 600 kHz and 13 800-13 870 kHz may be used by stations in the fixed service and in the mobile except aeronautical mobile (R) service, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.152 Additional allocation: in Armenia, Azerbaijan, China, Côte d'Ivoire, Georgia, Iran (Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 14 250-14 350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW. (WRC-03)
- Additional allocation: in Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 18 068-18 168 kHz is also allocated to the fixed service on a primary basis for use within their boundaries, with a peak envelope power not exceeding 1 kW. (WRC-03)
- 5.155 Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the band 21 850-21 870 kHz is also allocated to the aeronautical mobile (R) service on a primary basis. (WRC-07)
- 5.155A In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the use of the band 21 850-21 870 kHz by the fixed service is limited to provision of services related to aircraft flight safety. (WRC-07)
- 5.155B The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.
- 5.156 Additional allocation: in Nigeria, the band 22 720-23 200 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.
- 5.156A The use of the band 23 200-23 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety
- 5.157 The use of the band 23 350-24 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.
- 5.160 Additional allocation: in Botswana, Burundi, Lesotho, Malawi, Dem. Rep. of the Congo, Rwanda and Swaziland, the band 41-44 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-2000)
- 5.162A Additional allocation: in Germany, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Denmark, Spain, Estonia, the Russian Federation, Finland, France, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Luxembourg, Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, Slovakia, the Czech

- Rep., the United Kingdom, Serbia, Slovenia, Sweden and Switzerland the band 46-68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97). (WRC-07)
- 5.163 Additional allocation: in Armenia, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Rep., Tajikistan, Turkmenistan and Ukraine, the bands 47-48.5 MHz and 56.5-58 MHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-07)
- 5.164 Additional allocation: in Albania, Germany, Austria, Belgium, Bosnia and Herzegovina, Botswana, Bulgaria, Côte d'Ivoire, Denmark, Spain, Estonia, Finland, France, Gabon, Greece, Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jordan, Lebanon, Liechtenstein, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Montenegro, Nigeria, Norway, the Netherlands, Poland, Syrian Arab Republic, Romania, the United Kingdom, Serbia, Slovenia, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia and Turkey, the band 47-68 MHz, in South Africa the band 47-50 MHz, in the Czech Rep. the band 66-68 MHz, and in Latvia and Lithuania the band 48.5-56.5 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations of countries other than those mentioned in connection with the band. (WRC-07)
- 5.165 Additional allocation: in Angola, Cameroon, Congo (Rep. of the), Madagascar, Mozambique, Somalia, Sudan, Tanzania and Chad, the band 47-68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- 5.169 Alternative allocation: in Botswana, Burundi, Lesotho, Malawi, Namibia, the Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland, Zambia and Zimbabwe, the band 50-54 MHz is allocated to the amateur service on a primary basis.
- 5.171 Additional allocation: in Botswana, Burundi, Lesotho, Malawi, Mali, Namibia, Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland and Zimbabwe, the band 54-68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis
- Alternative allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting service on a primary basis. In Latvia and Lithuania, the bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting and mobile, except aeronautical mobile, services on a primary basis. The services to which these bands are allocated in other countries and the broadcasting service in the countries listed above are subject to agreements with the neighbouring countries concerned. (WRC-07)
- 5.177 Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 73-74 MHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-07)
- 5.179 Additional allocation: in Armenia, Azerbaijan, Belarus, China, the Russian Federation, Georgia, Kazakhstan, Lithuania, Mongolia, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the bands 74.6-74.8 MHz and 75.2-75.4 MHz are also allocated to the aeronautical radionavigation service, on a primary basis, for ground-based transmitters only. (WRC-07)
- 5.180 The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guardband to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons.
 - Every effort should be made to improve further the characteristics of airborne receivers and to limit the power of transmitting stations close to the limits 74.8 MHz and 75.2 MHz.
- Additional allocation: in Egypt, Israel and the Syrian Arab Republic, the band 74.8-75.2 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. 9.21. (WRC-03)
- 5.187 Alternative allocation: in Albania, the band 81 87.5 MHz is allocated to the broadcasting service on a primary basis and used in accordance with the decisions contained in the Final Acts of the Special Regional Conference (Geneva, 1960).
- 5.190 Additional allocation: in Monaco, the band 87.5 88 MHz is also allocated to the land mobile service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-97)
- 5.194 Additional allocation: in Azerbaijan, Kyrgyzstan, Somalia and Turkmenistan, the band 104-108 MHz is also allocated to the mobile, except aeronautical mobile (R), service on a secondary basis. (WRC-07)
- 5.197 Additional allocation: in Pakistan and the Syrian Arab Republic, the band 108-111.975 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedures invoked under No. 9.21. (WRC-07)
- 5.197A Additional allocation: the band 108-117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 413 (Rev.WRC-07). The use of the band 108-112 MHz by the aeronautical mobile (R) service shall be limited to systems composed of ground-based transmitters and associated receivers that provide navigational information in support of air navigation functions in accordance with recognized international aeronautical standards. (WRC-07)
- 5.200 In the band 117.975-137 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article 31 for distress and safety purposes with stations of the aeronautical mobile service. (WRC-07)

- 5.201 Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Japan, Kazakstan, Latvia, Moldova, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 132-136 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-97)
- 5.202 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Bulgaria, the United Arab Emirates, Georgia, Iran (Islamic Republic of), Jordan, Latvia, Moldova, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 136-137 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-2000)
- 5.204 Different category of service: in Afghanistan, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, China, Cuba, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Kuwait, Montenegro, Oman, Pakistan, the Philippines, Qatar, Serbia, Singapore, Thailand and Yemen, the band 137-138 MHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis (see No. 5.33). (WRC-07)
- 5.205 Different category of service: in Israel and Jordan, the allocation of the band 137-138 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. **5.33**).
- 5.206 Different category of service: in Armenia, Azerbaijan, Belarus, Bulgaria, Egypt, Finland, France, Georgia, Greece, Kazakstan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Syrian Arab Republic, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 137-138 MHz to the aeronautical mobile (OR) service is on a primary basis (see No. 5.33). (WRC-2000)
- 5.208 The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-97)
- 5.208A In making assignments to space stations in the mobile-satellite service in the bands 137-138 MHz, 387-390 MHz and 400.15-401 MHz, administrations shall take all practicable steps to protect the radio astronomy service in the bands 150.05-153 MHz, 322-328.6 MHz, 406.1-410 MHz and 608-614 MHz from harmful interference from unwanted emissions. The threshold levels of interference detrimental to the radio astronomy service are shown in the relevant ITU-R Recommendation. (WRC-07)
- 5208B In the bands:

137-138MHz, 387-390MHz, 400.15-401MHz, 1 452-1 492MHz, 1 525-1 559MHz, 1 559-1610MHz, 1 613.8-1 626.5MHz, 2 655-2 670MHz, 2 670-2 690MHz, 21.4-22 GHz,

Resolution 739 (Rev.WRC-07) applies. (WRC-07)

- 5.209 The use of the bands 137-138 MHz, 148-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 454-456 MHz and 459-460 MHz by the mobile-satellite service is limited to non-geostationary-satellite systems. (WRC-97)
- 5.210 Additional allocation: in Italy, the Czech Rep. and the United Kingdom, the bands 138-143.6 MHz and 143.65-144 MHz are also allocated to the space research service (space-to-Earth) on a secondary basis. (WRC-07)
- 5.211 Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece, Ireland, Israel, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lebanon, Liechtenstein, Luxembourg, Mali, Malta, Montenegro, Norway, the Netherlands, Qatar, the United Kingdom, Serbia, Slovenia, Somalia, Sweden, Switzerland, Tanzania, Tunisia and Turkey, the band 138-144 MHz is also allocated to the maritime mobile and land mobile services on a primary basis. (WRC-07)
- 5.212 Alternative allocation: in Angola, Botswana, Burundi, Cameroon, the Central African Rep., Congo (Rep. of the), Gabon, Gambia, Ghana, Guinea, Iraq, Libyan Arab Jamahiriya, Jordan, Lesotho, Liberia, Malawi, Mozambique, Namibia, Oman, Uganda, Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sierra Leone, South Africa, Swaziland, Chad, Togo, Zambia and Zimbabwe, the band 138-144 MHz is allocated to the fixed and mobile services on a primary basis. (WRC-07)
- 5.214 Additional allocation: in Eritrea, Ethiopia, Kenya, The Former Yugoslav Republic of Macedonia, Malta, Montenegro, Serbia, Somalia, Sudan and Tanzania, the band 138-144 MHz is also allocated to the fixed service on a primary basis. (WRC-07)
- 5.218 Additional allocation: the band 148 149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. 9.21. The bandwidth of any individual transmission shall not exceed ± 25 kHz.
- 5.219 The use of the band 148 149.9 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. The mobile-satellite service shall not constrain the development and use of the fixed, mobile and space operation services in the band 148 149.9 MHz.
- 5.220 The use of the bands 149.9 150.05 MHz and 399.9 400.05 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. The mobile-satellite service shall not constrain the development and use of the radionavigation-satellite service in the bands 149.9 150.05 MHz and 399.9 400.05 MHz. (WRC-97)
- 5.221 Stations of the mobile-satellite service in the band 148-149.9 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia, Australia, Bahrain, Bangladesh, Barbados, Belarus, Belgium,

Benin, Bosnia and Herzegovina, Botswana, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Ethiopia, the Russian Federation, Finland, France, Gabon, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia, Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Sri Lanka, South Africa, Sweden, Switzerland, Swaziland, Tanzania, Chad, Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Ukraine, Viet Nam, Yemen, Zambia, and Zimbabwe. (WRC-07)

- 5.222 Emissions of the radionavigation-satellite service in the bands 149.9 150.05 MHz and 399.9 400.05 MHz may also be used by receiving earth stations of the space research service.
- 5.223 Recognising that the use of the band 149.9 150.05 MHz by the fixed and mobile services may cause harmful interference to the radionavigation-satellite service, administrations are urged not to authorise such use in application of No. 4.4.
- 5.224A The use of the bands 149.9 150.05 MHz and 399.9 400.05 MHz by the mobile-satellite service (Earth-to-space) is limited to the land mobile-satellite service (Earth-to-space) until 1 January 2015. (WRC-97)
- 5.224B The allocation of the bands 149.9 150.05 MHz and 399.9 400.05 MHz to the radionavigation-satellite service shall be effective until 1 January 2015. (WRC-97)
- 5.226 The frequency 156.8 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service. The conditions for the use of this frequency and the band 156.7625-156.8375 MHz are contained in Article 31 and Appendix 18.

The frequency 156.525 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service using digital selective calling (DSC). The conditions for the use of this frequency and the band 156.4875-156.5625 MHz are contained in Articles 31 and 52, and in Appendix 18.

In the bands 156-156.4875 MHz, 156.5625-156.7625 MHz, 156.8375-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by the administration (see Articles 31 and 52, and Appendix 18).

Any use of frequencies in these bands by stations of other services to which they are allocated should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunication service.

However, the frequencies 156.8 MHz and 156.525 MHz and the frequency bands in which priority is given to the maritime mobile service may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations and taking into account current frequency usage and existing agreements. (WRC-07)

- 5.227 Additional allocation: the bands 156.4875-156.5125 MHz and 156.5375-156.5625 MHz are also allocated to the fixed and land mobile services on a primary basis. The use of these bands by the fixed and land mobile services shall not cause harmful interference to nor claim protection from the maritime mobile VHF radiocommunication service. (WRC-07)
- 5.227A Additional allocation: the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz are also allocated to the mobile-satellite service (Earth-to-space) on a secondary basis for the reception of automatic identification system (AIS) emissions from stations operating in the maritime-mobile service (see Appendix 18). (WRC-07)
- 5.229 Alternative allocation: in Morocco, the band 162-174 MHz is allocated to the broadcasting service on a primary basis. The use of this band shall be subject to agreement with administrations having services, operating or planned, in accordance with the Table which are likely to be affected. Stations in existence on 1 January 1981, with their technical characteristics as of that date, are not affected by such agreement.
- 5.235 Additional allocation: in Germany, Austria, Belgium, Denmark, Spain, Finland, France, Israel, Italy, Liechtenstein, Malta, Monaco, Norway, the Netherlands, the United Kingdom, Sweden and Switzerland, the band 174 223 MHz is also allocated to the land mobile service on a primary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, broadcasting stations, existing or planned, in countries other than those listed in this footnote.
- 5.237 Additional allocation: in Congo (Rep. of the), Eritrea, Ethiopia, Gambia, Guinea, the Libyan Arab Jamahiriya, Malawi, Mali, Sierra Leone, Somali, Chad and Zimbabwe, the band 174-223 MHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-03)
- 5.246 Alternative allocation: in Spain, France, Israel and Monaco, the band 223 230 MHz is allocated to the broadcasting and land mobile services on a primary basis (see No. 5.33) on the basis that, in the preparation of frequency plans, the broadcasting service shall have prior choice of frequencies; and allocated to the fixed and mobile, except land mobile, services on a secondary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations in Morocco and Algeria.
- 5.247 Additional allocation: in Saudi Arabia, Bahrain, the United Arab Emirates, Jordan, Oman, Qatar and Syrian Arab Republic, the band 223-235 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- 5.251 Additional allocation: in Nigeria, the band 230-235 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to agreement obtained under No. 9.21.
- 5.252 Alternative allocation: in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the bands 230-238 MHz and 246-254 MHz are allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21.
- 5.254 The bands 235-322 MHz and 335.4-399.9 MHz may be used by the mobile-satellite service, subject to agreement obtained under No. 9.21, on condition that stations in this service do not cause harmful interference to those of other services operating

- or planned to be operated in accordance with the Table of Frequency Allocations except for the additional allocation made in footnote No. 5.256A. (WRC-03)
- 5.255 The bands 312 315 MHz (Earth-to-space) and 387 390 MHz (space-to-Earth) in the mobile-satellite service may also be used by non-geostationary-satellite systems. Such use is subject to coordination under No. 9.11A.
- 5.256 The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes. (WRC-07)
- 5.256A Additional allocation: in China, the Russian Federation, Kazakhstan and Ukraine, the band 258-261 MHz is also allocated to the space research service (Earth-to-space) and space operation service (Earth-to-space) on a primary basis. Stations in the space research service (Earth-to-space) and space operation service (Earth-to-space) shall not cause harmful interference to, nor claim protection from, nor constrain the use and development of the mobile service systems and mobile-satellite service systems operating in the band. Stations in space research service (Earth-to-space) and space operation service (Earth-to-space) shall not constrain the future development of fixed service systems of other countries. (WRC-03)
- 5.257 The band 267 272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. 9.21.
- 5.258 The use of the band 328.6 335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).
- 5.259 Additional allocation: in Egypt, Israel, Japan, and the Syrian Arab Republic, the band 328.6-335.4 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. 9.21. (WRC-2000)
- 5.260 Recognising that the use of the band 399.9 400.05 MHz by the fixed and mobile services may cause harmful interference to the radionavigation satellite service, administrations are urged not to authorise such use in application of No. 4.4.
- 5.261 Emissions shall be confined in a band of \pm 25 kHz about the standard frequency 400.1 MHz.
- 5.262 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Botswana, Colombia, Costa Rica, Cuba, Egypt, the United Arab Emirates, Ecuador, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Liberia, Malaysia, Moldova, Uzbekistan, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Kyrgyzstan, Romania, Singapore, Somalia, Tajikistan, Turkmenistan and Ukraine, the band 400.05-401 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-07)
- 5.263 The band 400.15 401 MHz is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.
- 5.264 The use of the band 400.15 401 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. The power flux-density limit indicated in Annex 1 of Appendix 5 shall apply until such time as a competent world radiocommunication conference revises it.
- 5.266 The use of the band 406-406.1 MHz by the mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons (see also Article 31). (WRC-07)
- 5.267 Any emission capable of causing harmful interference to the authorised uses of the band 406 406.1 MHz is prohibited.
- Use of the band 410-420 MHz by the space research service is limited to communications within 5 km of an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from extra-vehicular activities shall not exceed -153 dB(W/m²) for $0^{\circ} \le \delta \le 5^{\circ}$, -153 + 0.077 ($\delta 5$) dB(W/m²) for $5^{\circ} \le \delta \le 70^{\circ}$ and -148 dB(W/m²) for $70^{\circ} \le \delta \le 90^{\circ}$, where δ is the angle of arrival of the radio-frequency wave and the reference bandwidth is 4 kHz. No. 4.10 does not apply to extra-vehicular activities. In this frequency band the space research (space-to-space) service shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. (WRC-97)
- 5.269 Different category of service: in Australia, the United States, India, Japan and the United Kingdom, the allocation of the bands 420 430 MHz and 440 450 MHz to the radiolocation service is on a primary basis (see No. 5.33).
- 5.271 Additional allocation: in Belarus, China, India, Kyrgyzstan and Turkmenistan, the band 420-460 MHz is also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis. (WRC-07)
- 5.272 Different category of service: in France, the allocation of the band 430 434 MHz to the amateur service is on a secondary basis (see No. 5.32).
- 5.274 Alternative allocation: in Denmark, Norway and Sweden, the bands 430 432 MHz and 438 440 MHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- 5.275 Additional allocation: in Croatia, Estonia, Finland, Libyan Arab Jamahiriya, The Former Yugoslav Republic of Macedonia, Montenegro, Serbia and Slovenia, the bands 430-432 MHz and 438-440 MHz are also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.276 Additional allocation: in Afghanistan, Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burkina Faso, Burundi, Egypt, the United Arab Emirates, Ecuador, Eritrea, Ethiopia, Greece, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Italy, Libyan Arab Jamahiriya, Jordan, Kenya, Kuwait, Lebanon, Malaysia, Malta, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Switzerland, Tanzania, Thailand, Togo, Turkey and Yemen, the band 430-440 MHz is also allocated to the fixed service on a primary basis and the bands 430-435 MHz and 438-440 MHz are also allocated to the mobile, except aeronautical mobile, service on a primary basis. (WRC-07)
- 5.277 Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Cameroon, Congo (Rep. of the), Djibouti, the Russian

- Federation, Georgia, Hungary, Israel, Kazakhstan, Mali, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, Romania, Rwanda, Tajikistan, Chad, Turkmenistan and Ukraine, the band 430-440 MHz is also allocated to the fixed service on a primary basis. (WRC-07)
- 5.279A The use of this band by sensors in the Earth exploration-satellite service (active) shall be in accordance with Recommendation ITU R SA.1260-1. Additionally, the Earth exploration-satellite service (active) in the band 432-438 MHz shall not cause harmful interference to the aeronautical radionavigation service in China. The provisions of this footnote in no way diminish the obligation of the Earth exploration-satellite service (active) to operate as a secondary service in accordance with Nos. 5.29 and 5.30. (WRC-03)
- 5.280 In Germany, Austria, Bosnia and Herzegovina, Croatia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Montenegro, Portugal, Serbia, Slovenia and Switzerland, the band 433.05-434.79 MHz (centre frequency 433.92 MHz) is designated for industrial, scientific and medical (ISM) applications. Radiocommunication services of these countries operating within this band must accept harmful interference which may be caused by these applications. ISM equipment operating in this band is subject to the provisions of No. 15.13. (WRC-07)
- 5.281 Additional allocation: in the French Overseas Departments in Region 2 and India, the band 433.75 434.25 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis. In France and in Brazil, the band is allocated to the same service on a secondary basis.
- 5.282 In the bands 435 438 MHz, 1 260 1 270 MHz, 2 400 2 450 MHz, 3 400 3 410 MHz (in Regions 2 and 3 only) and 5 650 5 670 MHz, the amateur-satellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table (see No. 5.43). Administrations authorising such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. 25.11. The use of the bands 1 260 1 270 MHz and 5 650 5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
- 5.283 Additional allocation: in Austria, the band 438 440 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- 5.286 The band 449.75 450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to agreement obtained under No. 9.21.
- 5.286AA The band 450-470 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). See Resolution 224 (Rev.WRC-07). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations.
- 5.286A The use of the bands 454 456 MHz and 459 460 MHz by the mobile-satellite service is subject to coordination under 9.11A. (WRC-97)
- 5.286B The use of the band 454 455 MHz in the countries listed in No. 5.286D, 455-456 MHz and 459 460 MHz in Region 2, and 454 456 MHz and 459 460 MHz in the countries listed in No. 5.286E, by stations in the mobile-satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations. (WRC-97)
- 5.287 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. Where needed, equipment designed for 12.5 kHz channel spacing using also the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may be introduced for on-board communications. 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.1174-2. (WRC-07)
- 5.289 Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460 470 MHz and 1 690 1 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
- 5.290 Different category of service: in Afghanistan, Azerbaijan, Belarus, China, the Russian Federation, Japan, Mongolia, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 460-470 MHz to the meteorological-satellite service (space-to-Earth) is on a primary basis (see No. 5.33), subject to agreement obtained under No. 9.21. (WRC-07)
- 5.291A Additional allocation: in Germany, Austria, Denmark, Estonia, Finland, Liechtenstein, Norway, Netherlands, the Czech Republic and Switzerland, the band 470 494 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97). (WRC-97)
- 5.294 Additional allocation: in Saudi Arabia, Burundi, Cameroon, Côte d'Ivoire, Egypt, Ethiopia, Israel, the Libyan Arab Jamahiriya, Kenya, Malawi, the Syrian Arab Republic, Sudan, Chad and Yemen, the band 470-582 MHz is also allocated to the fixed service on a secondary basis. (WRC-07)
- Additional allocation: in Germany, Saudi Arabia, Austria, Belgium, Côte d'Ivoire, Denmark, Egypt, Spain, Finland, France, Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jordan, Lithuania, Malta, Morocco, Monaco, Norway, Oman, the Netherlands, Portugal, the Syrian Arab Republic, the United Kingdom, Sweden, Switzerland, Swaziland and Tunisia, the band 470-790 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-07)
- 5.300 Additional allocation: in Israel, the Libyan Arab Jamahiriya, the Syrian Arab Republic and Sudan, the band 582-790 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis.
- 5.302 Additional allocation: in the United Kingdom, the band 590 598 MHz is also allocated to the aeronautical radionavigation service on a primary basis. All new assignments to stations in the aeronautical radionavigation service, including those

- transferred from the adjacent bands, shall be subject to coordination with the Administrations of the following countries: Germany, Belgium, Denmark, Spain, France, Ireland, Luxembourg, Morocco, Norway and the Netherlands.
- 5.304 Additional allocation: in the African Broadcasting Area (see Nos. 5.10 to 5.13), the band 606-614 MHz is also allocated to the radio astronomy service on a primary basis.
- 5.306 Additional allocation: in Region 1, except in the African Broadcasting Area (see Nos. 5.10 to 5.13), and in Region 3, the band 608 614 MHz is also allocated to the radio astronomy service on a secondary basis.
- 5.311A For the frequency band 620-790 MHz, see also Resolution 549 (WRC-07).
- 5.312 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 645 862 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-03)
- 5.314 Additional allocation: in Austria, Italy, Moldova, Uzbekistan, Kyrgyzstan, the United Kingdom and Swaziland, the band 790-862 MHz is also allocated to the land mobile service on a secondary basis. (WRC-07)
- 5.315 Alternative allocation: in Greece, Italy and Tunisia, the band 790 838 MHz is allocated to the broadcasting service on a primary basis. (WRC-2000)
- 5.316 Additional allocation: in Germany, Saudi Arabia, Bosnia and Herzegovina, Burkina Faso, Cameroon, Côte d'Ivoire, Croatia, Denmark, Egypt, Finland, Greece, Israel, the Libyan Arab Jamahiriya, Jordan, Kenya, The Former Yugoslav Republic of Macedonia, Liechtenstein, Mali, Monaco, Montenegro, Norway, the Netherlands, Portugal, the United Kingdom, the Syrian Arab Republic, Serbia,, Sweden and Switzerland, the band 790-830 MHz, and in these same countries and in Spain, France, Gabon and Malta, the band 830-862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis. However, stations of the mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, stations of services operating in accordance with the Table in countries other than those mentioned in connection with the band. This allocation is effective until 16 June 2015. (WRC-07)
- Additional allocation: in Angola, Bahrain, Benin, Botswana, Congo (Rep. of the), French Overseas Departments and Communities in Region 1, Gambia, Ghana, Guinea, Kuwait, Lesotho, Malawi, Morocco, Mauritania, Mozambique, Namibia, Niger, Oman, Uganda, Poland, Qatar, Rwanda, Senegal, Sudan, South Africa, Swaziland, Tanzania, Chad, Togo, Yemen, Zambia and Zimbabwe, the band 790-862 MHz in Spain, France, Gabon and Malta, the band 790-830 MHz, in Lithuania, the band 830-862 MHz and in Georgia, the band 806-862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis subject to the agreement by the administrations concerned obtained under No. 9.21 and under the GE-06 Agreement, as appropriate, including those administrations mentioned in No. 5.312 where appropriate. However, stations of the mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause unacceptable interference to, nor claim protection from, stations of services operating in accordance with the Table in countries other than those mentioned in connection with the band. Frequency assignment to the mobile service under this allocation in Lithuania and Poland shall not be used without the agreement of the Russian Federation and Belarus. This allocation is effective until 16 June 2015. (WRC-07)
- 5.316B In Region 1, the allocation to the mobile, except aeronautical mobile, service on a primary basis in the frequency band 790-862 MHz shall come into effect from 17 June 2015 and shall be subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. For countries party to the GE06 Agreement, the use of stations of the mobile service is also subject to the successful application of the procedures of that Agreement. Resolution 224 (Rev.WRC-07) and Resolution 749 (Rev.WRC-07) shall apply. (WRC-07)
- 5.317A Those parts of the band 698-960 MHz in Region 2 and the band 790-960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) See Resolution 224 (Rev.WRC-07) and Resolution 749 (WRC-07). This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-07)
- 5.319 Additional Allocation: In Belarus, the Russian Federation and Ukraine, the bands 806-840 MHz (E/S) and 856-890 MHz (S/E) are also allocated to the mobile-satellite, except aeronautical mobile satellite (R), service. The use of these bands by this service shall not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations and is subject to special agreements between the administrations concerned.
- 5.322 In Region 1, in the band 862 960 MHz stations of the broadcasting service shall be operated only in the African Broadcasting Area (See Nos 5.10 to 5.13) excluding Algeria, Egypt, Spain, the Libyan Arab Jamahiriya, Morocco, Namibia, Nigeria, South Africa, Tanzania, Zimbabwe and Zambia, subject to agreement obtained under No 9.21. (WRC-2000)
- 5.323 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, the Russian Federation, Hungary, Kazakhstan, Moldova, Uzbekistan, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the band 862-960 MHz is also allocated to the aeronautical radionavigation service on a primary basis. Such use is subject to agreement obtained under No. 9.21 with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-07)
- 5.327A The use of the band 960-1 164 MHz by the aeronautical mobile (R) service is limited to systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 417 (WRC-07). (WRC-07)
- 5.328 The use of the band 960-1 215 MHz by the aeronautical radionavigation service is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated ground-based facilities. (WRC-2000)
- 5.328A Stations in the radionavigation-satellite service in the band 1 164-1 215 MHz shall operate in accordance with the provisions of Resolution 609 (Rev.WRC-07) and shall not claim protection from stations in the aeronautical radionavigation service in the band 960-1 215 MHz. No. 5.43A does not apply. The provisions of No. 21.18 shall apply. (WRC-07)

- 5.328B The use of the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz by systems and networks in the radionavigation-satellite service for which complete coordination or notification information, as appropriate, is received by the Radiocommunication Bureau after 1 January 2005 is subject to the application of the provisions of Nos. 9.12, 9.12A and 9.13. Resolution 610 (WRC-03) shall also apply; however, in the case of radionavigation-satellite service (space-to-space) networks and systems, Resolution 610 (WRC-03) shall only apply to transmitting space stations. In accordance with No. 5.329A, for systems and networks in the radionavigation-satellite service (space-to-space) in the bands 1 215-1 300 MHz and 1 559-1 610 MHz, the provisions of Nos. 9.7, 9.12, 9.12A and 9.13 shall only apply with respect to other systems and networks in the radionavigation-satellite service (space-to-space). (WRC-07)
- Use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to, and no protection is claimed from, the radionavigation service authorized under No. 5.331. Furthermore, the use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to the radiolocation service. No. 5.43 shall not apply in respect of the radiolocation service. Resolution 608 (WRC-03) shall apply. (WRC-03)
- 5.329A Use of systems in the radionavigation-satellite service (space-to-space) operating in the bands 1 215-1 300 MHz and 1 559-1 610 MHz is not intended to provide safety service applications, and shall not impose any additional constraints on radionavigation-satellite service (space-to-Earth) systems or on other services operating in accordance with the Table of Frequency Allocations. (WRC-07)
- 5.330 Additional allocation: in Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, China, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, the Libyan Arab Jamahiriya, Japan, Jordan, Kuwait, Lebanon, Mozambique, Nepal, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Somalia, Sudan, Chad, Togo and Yemen, the band 1 215-1 300 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-03)
- 5.331 Additional allocation: in Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Egypt, the United Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece, Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Turkey, Venezuela and Viet Nam, the band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the band 1 240-1 300 MHz is also allocated to the radionavigation service, and use of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-07)
- 5.332 In the band 1 215 1 260 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service, the radionavigation-satellite service and other services allocated on a primary basis. (WRC-2000)
- 5.335A In the band 1 260 1 300 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service and other services allocated by footnotes on a primary basis.(WRC-2000)
- 5337 The use of the bands 1 300 1 350 MHz, 2 700 2 900 MHz and 9 000 9 200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
- 5.337A The use of the band 1 300 1 350 MHz by earth stations in the radionavigation-satellite service and by stations in the radiolocation service shall not cause harmful interference to, nor constrain the operation and development of, the aeronautical-radionavigation service. (WRC-2000)
- 5.338 In Mongolia, Kyrgyzstan, Slovakia, the Czech Rep. and Turkmenistan, existing installations of the radionavigation service may continue to operate in the band 1 350-1 400 MHz. (WRC-07)
- 5.338A In the bands 1 350-1 400 MHz, 1 427-1 429 MHz, 1 429-1 452 MHz, 22.55-23.55 GHz, 30-31 GHz, 31-31.3 GHz, 49.7-50.2 GHz, 50.4-50.9 GHz and 51.4-52.6 GHz, Resolution 750 (WRC-07) applies. (WRC-07)
- 5.339 The bands 1 370 1 400 MHz, 2 640 2 655 MHz, 4 950 4 990 MHz and 15.20 15.35 GHz are also allocated to the space research (passive) and Earth exploration-satellite (passive) services on a secondary basis.
- 5.340 All emissions are prohibited in the following bands:

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1 400 - 1 427 MHz,
2 690 - 2 700 MHz,
                             except those provided for by No. 5.422,
10.68 - 10.7 GHz,
                             except those provided for by No. 5.483,
15.35-15.4 GHz,
                             except those provided for by No. 5.511,
23.6 - 24 GHz,
31.3 - 31.5 GHz,
31.5 - 31.8 GHz,
                             in Region 2,
48.94 - 49.04 GHz,
                             from airborne stations,
50.2 - 50.4 GHz 1,
52.6 - 54.25 GHz
86 - 92 GHz,
100 - 102 GHz.
109.5 - 111.8 GHz.
114.25 - 116 GHz,
148.5 - 151.5 GHz,
164 - 167 GHz,
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¹ 5.340.1 The allocation to the Earth exploration-satellite service (passive) and the space research service (passive) in the band 50.2 - 50.4 GHz should not impose undue constraints on the use of the adjacent bands by the primary allocated services in those bands. (WRC-97)

182 - 185 GHz, 190 - 191.8 GHz, 200 - 209 GHz, 226 - 231.5 GHz,

250 - 252 GHz. (WRC 03)

- 5.341 In the bands 1 400 1 727 MHz, 101 120 GHz and 197 220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin.
- 5.342 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, the Russian Federation, Uzbekistan, Kyrgystan and Ukraine, the band 1 429-1 535 MHz is also allocated to the aeronautical mobile service on a primary basis exclusively for the purposes of aeronautical telemetry within the national territory. As of 1 April 2007, the use of the band 1 452-1 492 MHz is subject to agreement between the administrations concerned. (WRC-2000)
- 5.345 Use of the band 1 452 1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (WARC-92).*
- 5.348 The use of the band 1 518 1 525 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. In the band 1 518 1 525 MHz stations in the mobile-satellite service shall not claim protection from the stations in the fixed service. No. 5.43A does not apply. (WRC-03)
- 5.348A In the band 1 518 1 525 MHz, the coordination threshold in terms of the power flux-density levels at the surface of the Earth in application of No. 9.11A for space stations in the mobile-satellite (space-to-Earth) service, with respect to the land mobile service use for specialized mobile radios or used in conjunction with public switched telecommunication networks (PSTN) operating within the territory of Japan, shall be -150 dB(W/m²) in any 4 kHz band for all angles of arrival, instead of those given in Table 5-2 of Appendix 5. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from stations in the mobile service in the territory of Japan. No. 5.43A does not apply. (WRC-03)
- 5.348B In the band 1 518 1 525 MHz, stations in the mobile-satellite service shall not claim protection from aeronautical mobile telemetry stations in the mobile service in the territory of the United States (see Nos. 5.343 and 5.344) and in the countries listed in No. 5.342. No. 5.43A does not apply. (WRC-03)
- 5.349 Different category of service: in Saudi Arabia, Azerbaijan, Bahrain, Cameroon, Egypt, France, Iran (Islamic Republic of), Iraq, Israel, Kazakhstan, Kuwait, The Former Yugoslav Republic of Macedonia, Lebanon, Morocco, Qatar, Syrian Arab Republic, Kyrgyzstan, Turkmenistan and Yemen, the allocation of the band 1 525-1 530 MHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. 5.33). (WRC-07)
- 5.350 Additional allocation: in Azerbaijan, Kyrgyzstan and Turkmenistan, the band 1 525-1 530 MHz is also allocated to the aeronautical mobile service on a primary basis. (WRC-2000)
- 5.351 The bands 1 525 1 544 MHz, 1 545 1 559 MHz, 1 626.5 1 645.5 MHz and 1 646.5 1 660.5 MHz shall not be used for feeder links of any service. In exceptional circumstances, however, an earth station at a specified fixed point in any of the mobile-satellite services may be authorised by an administration to communicate via space stations using these bands.
- 5.351A For the use of the bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 626.5 MHz, 1 626.5-1 645.5 MHz, 1 646.5-1 660.5 MHz, 1 668-1 675 MHz, 1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 500 MHz, 2 500-2 520 MHz and 2 670-2 690 MHz by the mobile-satellite service, see Resolutions 212 (Rev.WRC-07) and 225 (Rev.WRC-07). (WRC-07)
- 5.352A In the band 1 525 1 530 MHz, stations in the mobile-satellite service, except stations in the maritime mobile-satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed service in France and French overseas territories in Region 3, Algeria, Saudi Arabia, Egypt, Guinea, India, Israel, Italy, Jordan, Kuwait, Mali, Malta, Morocco, Mauritania, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Tanzania, Viet Nam and Yemen notified prior to 1 April 1998. (WRC 97)
- 5.353A In applying the procedures of Section II of Article 9 to the mobile-satellite service in the bands 1 530 1 544 MHz and 1 626.5 1 645.5 MHz, priority shall be given to accommodating the spectrum requirements for distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). Maritime mobile-satellite distress, urgency and safety communications shall have priority access and immediate availability over all other mobile satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, distress, urgency and safety communications of the GMDSS. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution 222 (WRC-2000) shall apply.) (WRC-2000)
- 5.354 The use of the bands 1 525 1 559 MHz and 1 626.5 1 660.5 MHz by the mobile-satellite services is subject to coordination under 9 11A.
- 5.355 Additional allocation: in Bahrain, Bangladesh, Congo (Rep. of the), Egypt, Eritrea, Iraq, Israel, Kuwait, Lebanon, Malta, Qatar, Syrian Arab Republic, Somalia, Sudan, Chad, Togo and Yemen, the bands 1 540-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a secondary basis. (WRC-03)
- 5.356 The use of the band 1 544 1 545 MHz by the mobile-satellite service (space-to-Earth) is limited to distress and safety communications (see Article 31).
- 5.357 Transmissions in the band 1 545 1 555 MHz from terrestrial aeronautical stations directly to aircraft stations, or between aircraft stations, in the aeronautical mobile (R) service are also authorised when such transmissions are used to extend or supplement the satellite-to-aircraft links.
- 5.357A In applying the procedures of Section II of Article 9 to the mobile-satellite service in the bands 1 545 1 555 MHz and 1 646.5 1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article 44. Aeronautical mobile-satellite (R) service

communications with priority 1 to 6 in Article 44 shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article 44. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution 222 (WRC-2000) shall apply.) (WRC-2000)

- Additional allocation: in Germany, Saudi Arabia, Armenia, Austria, Azerbaijan, Belarus, Benin, Bulgaria, Cameroon, Spain, the Russian Federation, France, Gabon, Georgia, Greece, Guinea, Guinea-Bissau, the Libyan Arab Jamahiriya, Jordan, Kazakhstan, Kuwait, Lebanon, Lithuania, Mauritania, Moldova, Uganda, Uzbekistan, Pakistan, Poland, the Syrian Arab Republic, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, Swaziland, Tajikistan, Tanzania, Tunisia, Turkmenistan and Ukraine, the bands 1 550-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a primary basis. Administrations are urged to make all practicable efforts to avoid the implementation of new fixed-service stations in these bands. (WRC-07)
- 5.362B Additional allocation. The band 1 559-1 610 MHz is also allocated to the fixed service on a primary basis until 1 January 2010 in Algeria, Saudi Arabia, Cameroon, Libyan Arab Jamahiriya, Jordan, Mali, Mauritania, Syrian Arab Republic and Tunisia. After this date, the fixed service may continue to operate on a secondary basis until 1 January 2015, at which time this allocation shall no longer be valid. The band 1 559-1 610 MHz is also allocated to the fixed service on a secondary basis in Algeria, Germany, Armenia, Azerbaijan, Belarus, Benin, Bulgaria, Spain, Russian Federation, France, Gabon, Georgia, Guinea, Guinea-Bissau, Kazakhstan, Lithuania, Moldova, Nigeria, Uganda, Uzbekistan, Pakistan, Poland, Kyrgyzstan, Dem. People's Rep. of Korea, Romania, Senegal, Swaziland, Tajikistan, Tanzania, Turkmenistan and Ukraine until 1 January 2015, at which time this allocation shall no longer be valid. Administrations are urged to take all practicable steps to protect the radionavigation-satellite service and the aeronautical radionavigation service and not authorize new frequency assignments to fixed-service systems in this band. (WRC-07)
- 5.362C Additional allocation: in Congo (Rep. of the), Egypt, Eritrea, Iraq, Israel, Jordan, Malta, Qatar, the Syrian Arab Republic, Somalia, Sudan, Chad, Togo and Yemen, the band 1 559-1 610 MHz is also allocated to the fixed service on a secondary basis until 1 January 2015, at which time this allocation shall no longer be valid. Administrations are urged to take all practicable steps to protect the radionavigation-satellite service and not authorize new frequency assignments to fixed-service systems in this band. (WRC-07)
- 5.364 The use of the band 1 610 1 626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodeterminationsatellite service (Earth-to-space) is subject to coordination under No. 9.11A. A mobile earth station operating in either of the services in this band shall not produce a peak e.i.r.p. density in excess of -15 dB(W/4 kHz) in the part of the band used by systems operating in accordance with the provisions of No. 5.366 (to which No. 4.10 applies), unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, the mean e.i.r.p. density of a mobile earth station shall not exceed -3 dB(W/4 kHz). Stations of the mobile-satellite service shall not claim protection from stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. 5.366 and stations in the fixed service operating in accordance with the provisions of No. 5.359. Administrations operating in accordance with the provisions of No. 5.366
- 5.365 The use of the band 1 613.8 1 626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under 9.11A.
- 5.366 The band 1 610 1 626.5 MHz is reserved on a worldwide basis for the use and development of airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities. Such satellite use is subject to agreement obtained under No. 9.21.
- 5.367 Additional allocation: the bands 1 610 1 626.5 MHz and 5 000 5 150 MHz are also allocated to the aeronautical mobile-satellite (R) service on a primary basis, subject to agreement obtained under No. 9.21.
- 5.368 With respect to the radiodetermination-satellite and mobile-satellite services the provisions of No. 4.10 do not apply in the band 1 610 1 626.5 MHz, with the exception of the aeronautical radionavigation-satellite service.
- 5.369 Different category of service: in Angola, Australia, Burundi, China, Eritrea, Ethiopia, India, Iran (Islamic Republic of), Israel, the Libyan Arab Jamahiriya, Lebanon, Liberia, Madagascar, Mali, Pakistan, Papua New Guinea, Syrian Arab Republic, the Dem. Rep. of the Congo, Sudan, Swaziland, Togo and Zambia, the allocation of the band 1 610-1 626.5 MHz to the radiodetermination-satellite service (Earth-to-space) is on a primary basis (see No. 5.33), subject to agreement obtained under No. 9.21 from countries not listed in this provision. (WRC-03)
- 5.371 Additional allocation: in Region 1, the bands 1 610 1 626.5 MHz (Earth-to-space) and 2 483.5 2 500 MHz (space-to-Earth) are also allocated to the radiodetermination-satellite service on a secondary basis, subject to agreement obtained under No. 9.21.
- 5.372 Harmful interference shall not be caused to stations of the radio astronomy service using the band 1 610.6 1 613.8 MHz by stations of the radiodetermination-satellite and mobile-satellite services (No. 29.13 applies).
- 5.374 Mobile earth stations in the mobile-satellite service operating in the bands 1 631.5 1 634.5 MHz and 1 656.5 1 660 MHz shall not cause harmful interference to the stations in the fixed service operating in the countries listed in No. 5.359. (WRC-97)
- 5.375 The use of the band 1 645.5 1 646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress and safety communications (see Article 31).
- 5.376 Transmissions in the band 1 646.5 1 656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorised when such transmissions are used to extend or supplement the aircraft-to-satellite links.
- 5.376A Mobile earth stations operating in the band 1 660-1 660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)

- 5.379A Administrations are urged to give all practicable protection in the band 1 660.5 1 668.4 MHz for future research in radio astronomy, particularly by eliminating air-to-ground transmissions in the meteorological aids service in the band 1 664.4 1 668.4 MHz as soon as practicable.
- 5.379B The use of the band 1 668-1 675 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. In the band 1 668-1 668.4 MHz, Resolution 904 (WRC-07) shall apply. (WRC-07)
- 5.379C In order to protect the radio astronomy service in the band 1 668 1 670 MHz, the aggregate power flux-density values produced by mobile earth stations in a network of the mobile-satellite service operating in this band shall not exceed -181 dB(W/m²) in 10 MHz and 194dB(W/m²) in any 20 kHz at any radio astronomy station recorded in the Master International Frequency Register, for more than 2% of integration periods of 2 000 s. (WRC-03)
- 5.379D For sharing of the band 1 668.4-1 675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution 744 (Rev.WRC-07) shall apply. (WRC-07)
- 5.379E In the band 1 668.4 1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to stations in the meteorological aids service in China, Iran (Islamic Republic of), Japan and Uzbekistan. In the band 1 668.4 1 675 MHz, administrations are urged not to implement new systems in the meteorological aids service and are encouraged to migrate existing meteorological aids service operations to other bands as soon as practicable. (WRC-03)
- 5.380A In the band 1 670-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorological-satellite service notified before 1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobile-satellite service. (WRC-07)
- 5.382 Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, the Russian Federation, Guinea, Iraq, Israel, Jordan, Kazakhstan, Kuwait, the Former Yugoslav Republic of Macedonia, Lebanon, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic, Kyrgyzstan, Serbia, Somalia, Tajikistan, Tanzania, Turkmenistan, Ukraine and Yemen, the allocation of the band 1 690-1 700 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33), and in the Dem. People's Rep. of Korea, the allocation of the band 1 690-1 700 MHz to the fixed service is on a primary basis (see No. 5.33) and to the mobile, except aeronautical mobile, service on a secondary basis. (WRC-07)
- 5.384A The bands, or portions of the bands, 1 710-1 885 MHz, 2 300-2 400 MHz and 2 500-2 690 MHz, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-07). This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-07).
- 5.385 Additional allocation: the band 1 718.8 1 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)
- 5.386 Additional allocation: the band 1 750-1 850 MHz is also allocated to the space operation (Earth-to-space) and space research (Earth-to-space) services in Region 2, in Australia, Guam, India, Indonesia and Japan on a primary basis, subject to agreement obtained under No. 9.21, having particular regard to troposcatter systems. (WRC-03)
- 5.387 Additional allocation: in Belarus, Georgia, Kazakhstan, Mongolia, Kyrgyzstan, Slovakia, Romania, Tajikistan and Turkmenistan, the band 1 770-1 790 MHz is also allocated to the meteorological-satellite service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-07)
- 5.388 The bands 1 885 2 025 MHz and 2 110 2 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunications-2000 (IMT-2000). Such use does not preclude the use of these bands by other services to which they are allocated. The bands should be made available for IMT-2000 in accordance with Resolution 212 (Rev.WRC-97). (See also Resolution 223 (WRC-2000)).
- 5.388A In Regions 1 and 3, the bands 1 885 1 980 MHz, 2 010 2 025 MHz and 2 110 2 170 MHz and, in Region 2, the bands 1 885 1 980 MHz and 2 110 2 160 MHz may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications 2000 (IMT-2000), in accordance with Resolution 221 (Rev.WRC-03). Their use by IMT-2000 applications using high altitude platform stations as base stations does not preclude the use of these bands by any station in the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-03)
- 5.388B In Algeria, Saudi Arabia, Bahrain, Benin, Burkina Faso, Cameroon, Comoros, Côte d'Ivoire, China, Cuba Djibouti, Egypt, United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, India, Iran (Islamic Republic of), Israel, the Libyan Arab Jamahiriya, Jordan, Kenya, Kuwait, Mali, Morocco, Mauritania, Nigeria, Oman, Uganda, Qatar, the Syrian Arab Republic, Senegal, Singapore, Sudan, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, for the purpose of protecting fixed and mobile services, including IMT-2000 mobile stations, in their territories from co-channel interference, a high altitude platform station (HAPS) operating as an IMT-2000 base station in neighbouring countries, in the bands referred to in No. 5.388A, shall not exceed a co-channel power flux-density of 127 dB(W/(m² MHz)) at the Earth's surface outside a country's borders unless explicit agreement of the affected administration is provided at the time of the notification of HAPS. (WRC-03).
- 5.389A The use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service is subject to coordination under No. 9.11A and to the provisions of Resolution 716 (Rev.WRC-2000). (WRC-07)
- 5.389E The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz by the mobile-satellite service in Region 2 shall not cause harmful interference to or constrain the development of the fixed and mobile services in Regions 1 and 3.
- 5.389F In Algeria, Benin, Cape Verde, Egypt, Iran (Islamic Republic of), Mali, Syrian Arab Republic and Tunisia, the use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service shall neither cause harmful interference to the fixed and mobile services, nor hamper the development of those services prior to 1 January 2005, nor shall the former service request protection from the latter services. (WRC-2000)
- 5.391 In making assignments to the mobile service in the bands 2 025 2 110 MHz and 2 200 2 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154, and shall take that Recommendation

into account for the introduction of any other type of mobile system. (WRC-97)

- 5.392 Administrations are urged to take all practicable measures to ensure that space-to-space transmissions between two or more non-geostationary satellites, in the space research, space operations and Earth exploration-satellite services in the bands 2 025 2 110 MHz and 2 200 2 290 MHz, shall not impose any constraints on Earth-to-space, space-to-Earth and other space-to-space transmissions of those services and in those bands between geostationary and non-geostationary satellites.
- 5.395 In France and Turkey, the use of the band 2 310-2 360 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service. (WRC-03)
- 5.396 Space stations of the broadcasting-satellite service in the band 2 310-2 360 MHz operating in accordance with No. 5.393 that may affect the services to which this band is allocated in other countries shall be coordinated and notified in accordance with Resolution 33 (Rev.WRC-97)*. Complementary terrestrial broadcasting stations shall be subject to bilateral coordination with neighbouring countries prior to their bringing into use.
- 5.397 Different category of service: in France, the band 2 450 2 500 MHz is allocated on a primary basis to the radiolocation service (see No. 5.33). Such use is subject to agreement with administrations having services operating or planned to operate in accordance with the Table of Frequency Allocations which may be affected.
- 5.398 In respect of the radiodetermination-satellite service in the band 2 483.5 2 500 MHz, the provisions of No. 4.10 do not apply.
- 5.399 In Region 1, in countries other than those listed in No. 5.400, harmful interference shall not be caused to, or protection shall not be claimed from, stations of the radiolocation service by stations of the radiodetermination satellite service.
- 5.400 Different category of service: in Angola, Australia, Bangladesh, Burundi, China, Eritrea, Ethiopia, India, Iran (Islamic Republic of), the Libyan Arab Jamahiriya, Lebanon, Liberia, Madagascar, Mali, Pakistan, Papua New Guinea, the Dem. Rep. of the Congo, the Syrian Arab Republic, Sudan, Swaziland, Togo and Zambia, the allocation of the band 2 483.5-2 500 MHz to the radiodetermination-satellite service (space-to-Earth) is on a primary basis (see No. 5.33), subject to agreement obtained under No. 9.21 from countries not listed in this provision. (WRC-03)
- 5.402 The use of the band 2 483.5 2 500 MHz by the mobile-satellite and the radiodetermination-satellite services is subject to the coordination under No. 9.11A. Administrations are urged to take all practicable steps to prevent harmful interference to the radio astronomy service from emissions in the 2 483.5 2 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 990 5 000 MHz band allocated to the radio astronomy service worldwide.
- 5.403 Subject to agreement obtained under No. 9.21, the band 2 520-2 535 MHz may also be used for the mobile-satellite (space-to-Earth), except aeronautical mobile-satellite, service for operation limited to within national boundaries. The provisions of No. 9.11A apply. (WRC-07)
- 5.405 Additional allocation: in France, the band 2 500 2 550 MHz is also allocated to the radiolocation service on a primary basis. Such use is subject to agreement with the administrations having services operating or planned to operate in accordance with the Table which may be affected.
- 5.410 The band 2 500-2 690 MHz may be used for tropospheric scatter systems in Region 1, subject to agreement obtained under No. 9.21. Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in this band. When planning new tropospheric scatter radio-relay links in this band, all possible measures shall be taken to avoid directing the antennas of these links towards the geostationary-satellite orbit. (WRC-07)
- 5.412 Alternative allocation: in Azerbaijan, Kyrgyzstan and Turkmenistan, the band 2 500-2 690 MHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 5.413 In the design of systems in the broadcasting-satellite service in the bands between 2 500 MHz and 2 690 MHz, administrations are urged to take all necessary steps to protect the radio astronomy service in the band 2 690 2 700 MHz.
- 5.414 The allocation of the frequency band 2 500-2 520 MHz to the mobile-satellite service (space-to-Earth) is subject to coordination under No. 9.11A. (WRC-07)
- The use of the band 2 520-2 670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. 9.21. The provisions of No. 9.19 shall be applied by administrations in this band in their bilateral and multilateral negotiations. (WRC-07)
- 5.417A In applying provision No. 5.418, in Korea (Rep. of) and Japan, *resolves* 3 of Resolution 528 (Rev.WRC-03) is relaxed to allow the broadcasting-satellite service (sound) and the complementary terrestrial broadcasting service to additionally operate on a primary basis in the band 2 605-2 630 MHz. This use is limited to systems intended for national coverage. An administration listed in this provision shall not have simultaneously two overlapping frequency assignments, one under this provision and the other under No. 5.416. The provisions of No. 5.416 and Table 21-4 of Article 21 do not apply. Use of non-geostationary-satellite systems in the broadcasting-satellite service (sound) in the band 2 605-2 630 MHz is subject to the provisions of Resolution 539 (Rev.WRC-03). The power flux-density at the Earth's surface produced by emissions from a geostationary broadcasting-satellite service (sound) space station operating in the band 2 605-2 630 MHz for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003, for all conditions and for all methods of modulation, shall not exceed the following limits:

where θ is the angle of arrival of the incident wave above the horizontal plane, in degrees. These limits may be exceeded on the territory of any country whose administration has so agreed. In the case of the broadcasting-satellite service (sound) networks of Korea (Rep. of), as an exception to the limits above, the power flux-density value of -122 dB(W/(m² · MHz)) shall be used as a threshold for coordination under No. 9.11 in an area of 1 000 km around the territory of the administration notifying the broadcasting-satellite service (sound) system, for angles of arrival greater than 35°. (WRC-03)

5.417C Use of the band 2 605 - 2 630 MHz by non geostationary-satellite systems in the broadcasting-satellite service (sound),

- pursuant to No. 5.417A is, for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003, is subject to the application of the provisions of No. 9.12. (WRC-03)
- 5.417D Use of the band 2 605-2 630 MHz by geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003 is subject to the application of the provisions of No. 9.13 with respect to non geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. 5.417A, and No. 22.2 does not apply. (WRC-03)
- 5.418B Use of the band 2 630-2 655 MHz by non geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. 5.418, for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. 9.12. (WRC-03)
- 5.418C Use of the band 2 630 2 655 MHz by geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000 is subject to the application of the provisions of No. 9.13 with respect to non geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. 5.418 and No. 22.2 does not apply. (WRC-03)
- 5.419 When introducing systems of the mobile-satellite service in the band 2 670-2 690 MHz, administrations shall take all necessary steps to protect the satellite systems operating in this band prior to 3 March 1992. The coordination of mobile-satellite systems in the band shall be in accordance with No. 9.11A. (WRC-07)
- 5.420 The band 2 655-2 670 MHz may also be used for the mobile-satellite (Earth-to-space), except aeronautical mobile-satellite, service for operation limited to within national boundaries, subject to agreement obtained under No. 9.21. The coordination under No. 9.11A applies. (WRC-07)
- 5.422 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Brunei Darussalam, Congo (Rep. of the), Côte d'Ivoire, Cuba, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Georgia, Guinea, Guinea-Bissau, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Mauritania, Moldova, Mongolia, Montenegro, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, the Dem. Rep. of the Congo, Romania, Somalia, Tajikistan, Tunisia, Turkmenistan, Ukraine and Yemen, the band 2 690-2 700 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-07)
- 5.423 In the band 2 700 2 900 MHz, ground-based radars used for meteorological purposes are authorised to operate on a basis of equality with stations of the aeronautical radionavigation service.
- 5.424A In the band 2 900 3 100 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the radionavigation service. (WRC-03)
- 5.425 In the band 2 900 3 100 MHz, the use of the shipborne interrogator-transponder system (SIT) shall be confined to the subband 2 930 2 950 MHz.
- 5.426 The use of the band 2 900 3 100 MHz by the aeronautical radionavigation service is limited to ground-based radars.
- 5.427 In the bands 2 900 3 100 MHz and 9 300 9 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service, having regard, however, to No. 4.9.
- 5.428 Additional allocation: in Azerbaijan, Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 3 100-3 300 MHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- 5.429 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, the Libyan Arab Jamahiriya, Japan, Jordan, Kenya, Kuwait, Lebanon, Malaysia, Oman, Uganda, Pakistan, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea and Yemen, the band 3 300-3 400 MHz is also allocated to the fixed and mobile services on a primary basis. The countries bordering the Mediterranean shall not claim protection for their fixed and mobile services from the radiolocation service. (WRC-07)
- 5.430 Additional allocation: in Azerbaijan, Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 3 300-3 400 MHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- 5.430A Different category of service: in Albania, Algeria, Germany, Andorra, Saudi Arabia, Austria, Azerbaijan, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Cameroon, Cyprus, Vatican, Côte d'Ivoire, Croatia, Denmark, French Overseas Departments and Communities in Region 1, Egypt, Spain, Estonia, Finland, France, Gabon, Georgia, Greece, Guinea, Hungary, Ireland, Iceland, Israel, Italy, Jordan, Kuwait, Lesotho, Latvia, Macedonia, Liechtenstein, Lithuania, Malawi, Malta, Morocco, Mauritania, Moldova, Monaco, Mongolia, Montenegro, Mozambique, Namibia, Niger, Norway, Oman, Netherlands, Poland, Portugal, Qatar, Syria, Congo, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Senegal, Serbia, Sierra Leone, Slovenia, South Africa, Sweden, Switzerland, Swaziland, Togo, Chad, Tunisia, Turkey, Ukraine, Zambia and Zimbabwe, the band 3 400-3 600 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis subject to agreement obtained under No. 9.21 with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed -154.5 dBW/(m² · 4 kHz) for more than 20 per cent of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). This allocation is efective from 17 November 2010. (WRC-07)

- 5.431 Additional allocation: in Germany, Israel and the United Kingdom, the band 3 400 3 475 MHz is also allocated to the amateur service on a secondary basis. (WRC-03)
- 5.438 Use of the band 4 200 4 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. However, passive sensing in the Earth exploration-satellite and space research services may be authorised in this band on a secondary basis (no protection is provided by the radio altimeters).
- 5.440 The standard frequency and time signal-satellite service may be authorised to use the frequency 4 202 MHz for space-to-Earth transmissions and the frequency 6 427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of ±2 MHz of these frequencies, subject to agreement obtained under No. 9.21.
- The use of the bands 4 500 4 800 MHz (space-to-Earth), 6 725 7 025 MHz (Earth-to-space) by the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7 10.95 GHz (space-to-Earth), 11.2 11.45 GHz (space-to-Earth) and 12.75 13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7 10.95 GHz (space-to Earth), 11.2 11.45 GHz (space-to-Earth) and 12.75 13.25 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite system in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
- 5.442 In the bands 4 825-4 835 MHz and 4 950-4 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile, service. In Region 2 (except Brazil, Cuba, Guatemala, Paraguay, Uruguay and Venezuela), and in Australia, the band 4 825-4 835 MHz is also allocated to the aeronautical mobile service, limited to aeronautical mobile telemetry for flight testing by aircraft stations. Such use shall be in accordance with Resolution 416 (WRC-07) and shall not cause harmful interference to the fixed service. (WRC-07)
- 5.443B In order not to cause harmful interference to the microwave landing system operating above 5 030 MHz, the aggregate power flux-density produced at the Earth's surface in the band 5 030 5 150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the band 5 010 5 030 MHz shall not exceed -124.5 dB(W/m²) in a 150 kHz band. In order not to cause harmful interference to the radio astronomy service in the band 4 990 5 000 MHz, radionavigation-satellite service systems operating in the band 5 010 5 030 MHz shall comply with the limits in the band 4 990 5 000 MHz defined in Resolution 741 (WRC 03). (WRC-03)
- 5.444 The band 5 030-5 150 MHz is to be used for the operation of the international standard system (microwave landing system) for precision approach and landing. In the band 5 030-5 091 MHz, the requirements of this system shall take precedence over other uses of this band. For the use of the band 5 091-5 150 MHz, No. 5.444A and Resolution 114 (Rev.WRC-03) apply. (WRC-07)
- 5.444A Additional allocation: the band 5 091-5 150 MHz is also allocated to the fixed-satellite service (Earth-to-space) on a primary basis. This allocation is limited to feeder links of non-geostationary mobile-satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A.

In the band 5 091-5 150 MHz, the following conditions also apply:

- 1 prior to 1 January 2018, the use of the band 5 091-5 150 MHz by feeder links of non-geostationary-satellite systems in the mobile-satellite service shall be made in accordance with Resolution 114 (Rev.WRC-03);
- 2 prior to 1 January 2018, the requirements of existing and planned international standard systems for the aeronautical radionavigation service which cannot be met in the 5 000-5 091 MHz band, shall take precedence over other uses of this band:
- 3 after 1 January 2016, no new assignments shall be made to earth stations providing feeder links of non-geostationary mobile-satellite systems;
- 4 after 1 January 2018, the fixed-satellite service will become secondary to the aeronautical radionavigation service. (WRC-03)
- 5.444B The use of the band 5 091-5 150 MHz by the aeronautical mobile service is limited to:
 - systems operating in the aeronautical mobile (R) service and in accordance with international aeronautical standards, limited to surface applications at airports. Such use shall be in accordance with Resolution 748 (WRC-07);
 - aeronautical telemetry transmissions from aircraft stations (see No. 1.83) in accordance with Resolution 418 (WRC-07);
 - aeronautical security transmissions. Such use shall be in accordance with Resolution 419 (WRC-07). (WRC-07)
- Additional allocation: in the countries listed in Nos. 5.369 and 5.400, the band 5 150 5 216 MHz is also allocated to the radiodetermination-satellite service (space-to-Earth) on a primary basis, subject to agreement obtained under No. 9.21. In Region 2, the band is also allocated to the radiodetermination-satellite service (space-to-Earth) on a primary basis. In Regions 1 and 3, except those countries listed in Nos. 5.369 and 5.400, the band is also allocated to the radiodetermination-satellite service (space-to-Earth) on a secondary basis. The use by the radiodetermination-satellite service is limited to feeder links in conjunction with the radiodetermination-satellite service operating in the bands 1 610 1 626.5 MHz and/or 2 483.5 2 500 MHz. The total power flux-density at the Earth's surface shall in no case exceed -159 dB(W/m²) in any 4 kHz band for all angles of arrival.
- 5.446A The use of the bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution 229 (WRC-03). (WRC-07)

- 5.446B In the band 5 150 5 250 MHz, stations in the mobile service shall not claim protection from earth stations in the fixed-satellite service. No. 5.43A does not apply to the mobile service with respect to fixed-satellite service earth stations. (WRC-03)
- 5.446C Additional allocation: in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Syrian Arab Republic, Sudan and Tunisia) and in Brazil, the band 5 150-5 250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see No. 1.83), in accordance with Resolution 418 (WRC-07). These stations shall not claim protection from other stations operating in accordance with Article 5. No. 5.43A does not apply. (WRC-07)
- 5.447 Additional allocation: in Côte d'Ivoire, Israel, Lebanon, Pakistan, the Syrian Arab Republic and Tunisia, the band 5 150-5 250 MHz is also allocated to the mobile service, on a primary basis, subject to agreement obtained under No. 9.21. In this case, the provisions of Resolution 229 (WRC-03) do not apply. (WRC-07)
- 5.447A The allocation to the fixed-satellite service (Earth-to-space) is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A.
- 5.447B Additional allocation: the band 5 150 5 216 MHz is also allocated to the fixed-satellite service (Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to provisions of No. 9.11A. The power flux-density at the Earth's surface produced by space stations of the fixed-satellite service operating in the space-to-Earth direction in the band 5 150 5 216 MHz shall in no case exceed -164 dB(W/m²) in any 4 kHz band for all angles of arrival.
- 5.447C Administrations responsible for fixed-satellite service networks in the band 5 150 5 250 MHz operated under Nos. 5.447A and 5.447B shall coordinate on an equal basis in accordance with No. 9.11A with administrations responsible for non-geostationary-satellite networks operated under No. 5.446 and brought into use prior to 17 November 1995. Satellite networks operated under No. 5.446 brought into use after 17 November 1995 shall not claim protection from, and shall not cause harmful interference to, stations of the fixed-satellite service operated under Nos. 5.447A and 5.447B.
- 5.447D The allocation of the band 5 250 5 255 MHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)
- 5.447F In the band 5 250 5 350 MHz, stations in the mobile service shall not claim protection from the radiolocation service, the Earth exploration-satellite service (active) and the space research service (active). These services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendations ITU-R M.1638 and ITU-R SA.1632. (WRC-03).
- 5.448 Additional allocation: in Azerbaijan, the Libyan Arab Jamahiriya, Mongolia, Kyrgyzstan, Slovakia, Romania and Turkmenistan, the band 5 250 5 350 MHz is also allocated to the radionavigation service on a primary basis. (WRC-03).
- 5.448A The Earth exploration-satellite (active) and space research (active) services in the frequency band 5 250 5 350 MHz shall not claim protection from the radiolocation service. No. 5.43A does not apply. (WRC-03).
- 5.448B The Earth exploration-satellite service (active) operating in the band 5 350 5 570 MHz and space research service (active) operating in the band 5 460 5 570 MHz shall not cause harmful interference to the aeronautical radionavigation service in the band 5 350 5 460 MHz, the radionavigation service in the band 5 470 5 570 MHz. (WRC-03)
- 5.448C The space research service (active) operating in the band 5 350 5 460 MHz shall not cause harmful interference to nor claim protection from other services to which this band is allocated. (WRC-03)
- 5.448D In the frequency band 5 350 5 470 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the aeronautical radionavigation service operating in accordance with No. 5.449. (WRC-03)
- 5.449 The use of the band 5 350 5 470 MHz by the aeronautical radionavigation service is limited to airborne radars and associated airborne beacons.
- 5.450 Additional allocation: in Austria, Azerbaijan, Iran (Islamic Republic of), Mongolia, Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 5 470 5 650 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-03)
- 5.450A In the band 5 470 5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. Radiodetermination services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendation ITU-R M.1638. (WRC-03)
- 5.450B In the frequency band 5 470 5 650 MHz, stations in the radiolocation service, except ground-based radars used for meteorological purposes in the band 5 600 5 650 MHz, shall not cause harmful interference to, nor claim protection from, radar systems in the maritime radionavigation service. (WRC-03)
- 5.451 Additional allocation: in the United Kingdom, the band 5 470 5 850 MHz is also allocated to the land mobile service on a secondary basis. The power limits specified in Nos. 21.2, 21.3, 21.4 and 21.5 shall apply in the band 5 725 5 850 MHz.
- 5.452 Between 5 600 MHz and 5 650 MHz, ground-based radars used for meteorological purposes are authorised to operate on a basis of equality with stations of the maritime radionavigation service.
- 5.454 Different category of service: in Azerbaijan, the Russian Federation, Georgia, Mongolia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 5 670-5 725 MHz to the space research service is on a primary basis (see No. 5.33). (WRC-07)
- 5.455 Additional allocation: in Armenia, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 5 670-5 850 MHz is also allocated to the fixed service on a primary basis. (WRC-07)
- 5.457A In the bands 5 925 6 425 MHz and 14 14.5 GHz, earth stations located on board vessels may communicate with space

stations of the fixed-satellite service. Such use shall be in accordance with Resolution 902 (WRC-03). (WRC-03)

- 5.457B In the bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may operate with the characteristics and under the conditions contained in Resolution 902 (WRC-03) in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, the Libyan Arab Jamahiriya, Jordan, Kuwait, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, Tunisia and Yemen, in the maritime mobile-satellite service on a secondary basis. Such use shall be in accordance with Resolution 902 (WRC-03). (WRC-03)
- 5.457C In Region 2 (except Brazil, Cuba, French Overseas Departments and Communities, Guatemala, Paraguay, Uruguay and Venezuela), the band 5 925-6 700 MHz may be used for aeronautical mobile telemetry for flight testing by aircraft stations (see No. 1.83). Such use shall be in accordance with Resolution 416 (WRC-07) and shall not cause harmful interference to, nor claim protection from, the fixed-satellite and fixed services. Any such use does not preclude the use of these bands by other mobile service applications or by other services to which these bands are allocated on a co-primary basis and does not establish priority in the Radio Regulations. (WRC-07)
- 5.458 In the band 6 425 7 075 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7 075 7 250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth exploration-satellite (passive) and space research (passive) services in their future planning of the bands 6 425 7 025 MHz, and 7 075 7 250 MHz.
- 5.458A In making assignments in the band 6 700 7 075 MHz to space stations of the fixed-satellite service, administrations are urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the band 6 650 6 675.2 MHz from harmful interference from unwanted emissions.
- 5.458B The space-to-Earth allocation to the fixed-satellite service in the band 6 700 7 075 MHz is limited to feeder links for non-geostationary satellite systems of the mobile-satellite service and is subject to coordination under No. 9.11A. The use of the band 6 700 7 075 MHz (space-to-Earth) by feeder links for non-geostationary satellite systems in the mobile-satellite service is not subject to No. 22.2.
- 5.458C Administrations making submissions in the band 7 025 7 075 MHz (Earth-to-space) for geostationary-satellite systems in the fixed-satellite service after 17 November 1995 shall consult on the basis of relevant ITU-R Recommendations with the administrations that have notified and brought into use non-geostationary-satellite systems in this frequency band before 18 November 1995 upon request of the latter administrations. This consultation shall be with a view to facilitating shared operation of both geostationary-satellite systems in the fixed-satellite service and non-geostationary-satellite systems in this band
- 5.459 Additional allocation: in the Russian Federation, the frequency bands 7 100 7 155 MHz and 7 190 7 235 MHz are also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. 9.21. (WRC-97)
- 5.460 The use of the band 7 145-7 190 MHz by the space research service (Earth-to-space) is restricted to deep space; no emissions to deep space shall be effected in the band 7 190-7 235 MHz. Geostationary satellites in the space research service operating in the band 7 190-7 235 MHz shall not claim protection from existing and futur– stations of the fixed and mobile serv–ces and No. 5.43A does not apply. (WRC-03)
- 5.461 Additional allocation: the bands 7 250 7 375 MHz (space-to-Earth) and 7 900 8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. 9.21.
- 5.461A The use of the band 7 450-7 550 MHz by the meteorological-satellite service (space-to-Earth) is limited to geostationary-satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 may continue to operate on a primary basis until the end of their lifetime. (WRC-97)
- 5.461B The use of the band 7 750-7 850 MHz by the meteorological-satellite service (space-to-Earth) is limited to non-geostationary satellite systems. (WRC-97)
- 5.462A In Regions 1 and 3 (except for Japan), in the band 8 025-8 400 MHz, the Earth exploration-satellite service using geostationary satellites shall not produce a power flux-density in excess of the following provisional values for angles of arrival (θ), without the consent of the affected administration:
 - $-174 \text{ dB(W/m}^2)$ in a 4 kHz band for $0^\circ \le \theta < 5^\circ$
 - $-174 + 0.5 (\theta 5) dB(W/m^2)$ in a 4 kHz band for $5^{\circ} \le \theta < 25^{\circ}$
 - $-164 \text{ dB}(\text{W/m}^2)$ in a 4 kHz band for $25^{\circ} \le \theta \le 90^{\circ}$

These values are subject to study under Resolution 124 (WRC-97)**. (WRC-97)

- 5.463 Aircraft stations are not permitted to transmit in the band 8 025 8 400 MHz. (WRC-97)
- 5.465 In the space research service, the use of the band 8 400 8 450 MHz is limited to deep space.
- 5.466 Different category of service: in Israel, Singapore and Sri Lanka, the allocation of the band 8 400-8 500 MHz to the space research service is on a secondary basis (see No. 5.32). (WRC-03)
- 5.468 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burundi, Cameroon, China, Congo (Rep. of the), Costa Rica, Egypt, the United Arab Emirates, Gabon, Guyana, Indonesia, Iran (Islamic Republic of), Iraq, the Libyan Arab Jamahiriya, Jamaica, Jordan, Kenya, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Senegal, Singapore, Somalia, Swaziland, Tanzania, Chad, Togo, Tunisia and Yemen, the band 8 500-8 750 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-03)
- 5.469 Additional allocation: in Armenia, Azerbaijan, Belarus, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Czech Rep., Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500 8 750 MHz is also allocated to the land mobile and radionavigation services on a primary basis. (WRC-03)

- 5.469A In the band 8 550 8 650 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation service. (WRC-97)
- 5.470 The use of the band 8 750 8 850 MHz by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8 800 MHz.
- 5.471 Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, Egypt, the United Arab Emirates, France, Greece, Indonesia, Iran (Islamic Republic of), the Libyan Arab Jamahiriya, the Netherlands, Qatar and Sudan, the bands 8 825-8 850 MHz and 9 000-9 200 MHz are also allocated to the maritime radionavigation service, on a primary basis, for use by shore-based radars only. (WRC-07)
- 5.472 In the bands 8 850 9 000 MHz and 9 200 9 225 MHz, the maritime radionavigation service is limited to shore-based radars.
- 5.473 Additional allocation: in Armenia, Austria, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the bands 8 850-9 000 MHz and 9 200-9 300 MHz are also allocated to the radionavigation service on a primary basis. (WRC-07)
- 5.473A In the band 9 000-9 200 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, systems identified in No. 5.337 operating in the aeronautical radionavigation service, or radar systems in the maritime radionavigation service operating in this band on a primary basis in the countries listed in No. 5.471. (WRC-07)
- 5.474 In the band 9 200 9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article 31).
- 5.475 The use of the band 9 300-9 500 MHz by the aeronautical radionavigation service is limited to airborne weather radars and ground-based radars. In addition, ground-based radar beacons in the aeronautical radionavigation service are permitted in the band 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service. (WRC-07)
- 5.475A The use of the band 9 300-9 500 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 300 MHz that cannot be fully accommodated within the 9 500-9 800 MHz band. (WRC-07)
- 5.475B In the band 9 300-9 500 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, radars operating in the radionavigation service in conformity with the Radio Regulations. Ground-based radars used for meteorological purposes have priority over other radiolocation uses. (WRC-07)
- 5.476A In the band 9 300-9 800 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from, stations of the radionavigation and radiolocation services. (WRC-07)
- 5.477 Different category of service: in Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Japan, Jordan, Kuwait, Lebanon, Liberia, Malaysia, Nigeria, Oman, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Trinidad and Tobago, and Yemen, the allocation of the band 9 800-10 000 MHz to the fixed service is on a primary basis (see No. 5.33). (WRC-07)
- 5.478 Additional allocation: in Azerbaijan, Mongolia, Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 9 800-10 000 MHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- 5.478A In the band 9 800-9 900 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from stations of the fixed service to which this band is allocated on a secondary basis.
- 5.478B The use of the band 9 800-9 900 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 500 MHz that cannot be fully accommodated within the 9 300-9 800 MHz band.
- 5.479 The band 9 975 10 025 MHz is also allocated to the meteorological-satellite service on a secondary basis for use by weather radars.
- 5.481 Additional allocation: in Germany, Angola, Brazil, China, Costa Rica, Côte d'Ivoire, El Salvador, Ecuador, Spain, Guatemala, Hungary, Japan, Kenya, Morocco, Nigeria, Oman, Uzbekistan, Paraguay, Peru, the Dem. People's Rep. of Korea, Romania, Tanzania, Thailand and Uruguay, the band 10.45-10.5 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-07)
- 5.482 In the band 10.6-10.68 GHz, the power delivered to the antenna of stations of the fixed and mobile, except aeronautical mobile, services shall not exceed -3 dBW. This limit may be exceeded, subject to agreement obtained under No. 9.21. However, in Algeria, Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh, Belarus, Egypt, United Arab Emirates, Georgia, India, Indonesia, Iran (Islamic Republic of), Iraq, Jordan, Libyan Arab Jamahiriya, Kazakhstan, Kuwait, Lebanon, Morocco, Mauritania, Moldova, Nigeria, Oman, Uzbekistan, Pakistan, Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, Singapore, Tajikistan, Tunisia, Turkmenistan and Viet Nam, this restriction on the fixed and mobile, except aeronautical mobile, service is not applicable. (WRC-07)
- 5.482A For sharing of the band 10.6-10.68 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile, except aeronautical mobile, services, Resolution 751 (WRC-07) applies. (WRC-07)
- 5.483 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, China, Colombia, Korea (Rep. of), Costa Rica, Egypt, the United Arab Emirates, Georgia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, Mongolia, Qatar, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, Tajikistan, Turkmenistan and Yemen, the band

- 10.68-10.7 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-07)
- 5.484 In Region 1, the use of the band 10.7 11.7 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the oadcasting-satellite service.
- 5.484A The use of the bands 10.95 11.2 GHz (space-to-Earth), 11.45 11.7 GHz (space-to-Earth), 11.7 12.2 GHz (space-to-Earth) in Region 2, 12.2 12.75 GHz (space-to-Earth) in Region 3, 12.5 12.75 GHz (space-to-Earth) in Region 1, 13.75 14.5 GHz (Earth-to-space), 17.8 18.6 GHz (space-to-Earth), 19.7 20.2 GHz (space-to-Earth), 27.5 28.6 GHz (Earth-to-space), 29.5 30 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
- 5.487 In the band 11.7 12.5 GHz in Regions 1 and 3, the fixed, fixed-satellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcasting-satellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix 30. (WRC-03)
- 5.487A Additional allocation: in Region 1, the band 11.7 12.5 GHz, in Region 2, the band 12.2 12.7 GHz and, in Region 3, the band 11.7 12.2 GHz, are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis, limited to non-geostationary systems and subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the broadcasting-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-03)
- 5.488 The use of the band 11.7-12.2 GHz by geostationary-satellite networks in the fixed-satellite service in Region 2 is subject to application of the provisions of No. 9.14 for coordination with stations of terrestrial services in Regions 1, 2 and 3. For the use of the band 12.2-12.7 GHz by the broadcasting-satellite service in Region 2, see Appendix 30. (WRC-03)
- 5.492 Assignments to stations of the broadcasting-satellite service which are in conformity with the appropriate regional Plan or included in the Regions 1 and 3 List in Appendix 30 may also be used for transmissions in the fixed-satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcasting-satellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
- 5.494 Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Cameroon, the Central African Rep., Congo (Rep. of the), Côte d'Ivoire, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Iraq, Israel, the Libyan Arab Jamahiriya, Jordan, Kuwait, Lebanon, Madagascar, Mali, Morocco, Mongolia, Nigeria, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Somalia, Sudan, Chad, Togo and Yemen, the band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-03)
- 5.495 Additional allocation: in Bosnia and Herzegovina, France, Greece, Liechtenstein, Monaco, Montenegro, Uganda, Romania, Serbia, Switzerland, Tanzania and Tunisia, the band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis. (WRC-07)
- 5.496 Additional allocation: in Austria, Azerbaijan, Kyrgyzstan and Turkmenistan, the band 12.5 12.75 GHz is also allocated to the fixed service and the mobile, except aeronautical mobile, service on a primary basis. However, stations in these services shall not cause harmful interference to fixed-satellite service earth stations of countries in Region 1 other than those listed in this footnote. Coordination of these earth stations is not required with stations of the fixed and mobile services of the countries listed in this footnote. The power flux-density limit at the Earth's surface given in Table 21-4 of Article 21, for the fixed-satellite service shall apply on the territory of the countries listed in this footnote. (WRC-2000)
- 5.497 The use of the band 13.25 13.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
- 5.498A The Earth exploration-satellite (active) and space research (active) services operating in the band 13.25 13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
- 5.500 Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Madagascar, Malaysia, Mali, Malta, Morocco, Mauritania, Nigeria, Pakistan, Qatar, the Syrian Arab Republic, Singapore, Sudan, Chad and Tunisia, the band 13.4-14 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-03)
- 5.501 Additional allocation: in Azerbaijan, Hungary, Japan, Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 13.4-14 GHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- 5.501A The allocation of the band 13.4 13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)
- 5.501B In the band 13.4 13.75 GHz, the earth exploration-satellite (active) and space research (active) services shall not cause harmful interference to, or constrain the use and development of, the radiolocation service. (WRC-97)
- 5.502 In the band 13.75 14 GHz, an earth station of a geostationary fixed-satellite service network shall have a minimum antenna diameter of 1.2 m and an earth station of a non-geostationary fixed-satellite service system shall have a minimum antenna diameter of 4.5 m. In addition, the e.i.r.p., averaged over one second, radiated by a station in the radiolocation or

radionavigation services shall not exceed 59 dBW for elevation angles above 2° and 65 dBW at lower angles. Before an administration brings into use an earth station in a geostationary-satellite network in the fixed-satellite service in this band with an antenna size smaller than 4.5 m, it shall ensure that the power flux-density produced by this earth station does not exceed:

- -115 dB(W/(m² 10 MHz)) for more than 1% of the time produced at 36 m above sea level at the low water mark, as officially recognized by the coastal State;
- 115 dB(W/(m² 10 MHz)) for more than 1% of the time produced 3 m above ground at the border of the territory of an administration deploying or planning to deploy land mobile radars in this band, unless prior agreement has been obtained.

For earth stations within the fixed-satellite service having an antenna diameter greater than or equal to 4.5 m, the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. (WRC-03)

- 5.503 In the band 13.75 14 GHz, geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 shall operate on an equal basis with stations in the fixed-satellite service; after that date, new geostationary space stations in the space research service will operate on a secondary basis. Until those geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 cease to operate in this band:
 - in the band 13.77 13.78 GHz, the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in geostationary-satellite orbit shall not exceed:
 - i) 4.7D + 28 dB(W/40 kHz), where D is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 1.2 m and less than 4.5 m;
 - ii) 49.2 + 20 log(D/4.5) dB(W/40 kHz), where D is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 4.5 m and less than 31.9 m;
 - iii) 66.2 dB(W/40 kHz) for any fixed-satellite service earth station for antenna diameters (m) equal to or greater than 31.9 m;
 - iv) 56.2 dB(W/4 kHz) for narrow-band (less than 40 kHz of necessary bandwidth) fixed-satellite service earth station emissions from any fixed-satellite service earth station having an antenna diameter of 4.5 m or greater;
 - the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in non-geostationary-satellite orbit shall not exceed 51 dBW in the 6 MHz band from 13.772 to 13.778 GHz.

Automatic power control may be used to increase the e.i.r.p. density in these frequency ranges to compensate for rain attenuation, to the extent that the power flux-density at the fixed-satellite service space station does not exceed the value resulting from use by an earth station of an e.i.r.p. meeting the above limits in clear-sky conditions. (WRC-03)

- 5.504 The use of the band 14 14.3 GHz by the radionavigation service shall be such as to provide sufficient protection to space stations of the fixed-satellite service.
- 5.504A In the band 14 14.5 GHz, aircraft earth stations in the secondary aeronautical mobile-satellite service may also communicate with space stations in the fixed-satellite service. The provisions of Nos. 5.29, 5.30 and 5.31 apply. (WRC-03)
- 5.504B Aircraft earth stations operating in the aeronautical mobile-satellite service in the band 14 14.5 GHz shall comply with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47 14.5 GHz band located on the territory of Spain, France, India, Italy, the United Kingdom and South Africa. (WRC-03)
- 5.504C In the band 14-14.25 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, Côte d'Ivoire, Egypt, Guinea, India, Iran (Islamic Republic of), Kuwait, Lesotho, Nigeria, Oman, the Syrian Arab Republic and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. 5.29. (WRC-03)
- 5.505 Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Bangladesh, Botswana, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Egypt, the United Arab Emirates, Gabon, Guatemala, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lesotho, Lebanon, Malaysia, Mali, Morocco, Mauritania, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Swaziland, Tanzania, Chad and Yemen, the band 14-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-03)
- 5.506 The band 14 14.5 GHz may be used, within the fixed-satellite service (Earth-to-space), for feeder links for the broadcasting-satellite service, subject to coordination with other networks in the fixed-satellite service. Such use of feeder links is reserved for countries outside Europe.
- 5.506A In the band 14 14.5 GHz, ship earth stations with an e.i.r.p. greater than 21 dBW shall operate under the same conditions as earth stations located on board vessels, as provided in Resolution 902 (WRC 03). This footnote shall not apply to ship earth stations for which the complete Appendix 4 information has been received by the Bureau prior to 5 July 2003. (WRC-03)
- 5.506B Earth stations located on board vessels communicating with space stations in the fixed-satellite service may operate in the frequency band 14 14.5 GHz without the need for prior agreement from Cyprus, Greece and Malta, within the minimum distance given in Resolution 902 (WRC-03) from these countries. (WRC-03)
- 5.508 Additional allocation: in Germany, Bosnia and Herzegovina, France, Italy, Libyan Arab Jamahiriya, The Former Yugoslav Rep. of Macedonia and the United Kingdom, the band 14.25-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-07)
- 5.508A In the band 14.25 14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, China, Côte d'Ivoire, Egypt, France, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Lesotho, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-

satellite service to operate as a secondary service in accordance with No. 5.29. (WRC-03)

- 5.509A In the band 14.3 14.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, Cameroon, China, Côte d'Ivoire, Egypt, France, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Lesotho, Morocco, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom, Sri Lanka, Tunisia and Viet Nam by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. 5.29. (WRC-03)
- 5.510 The use of the band 14.5 14.8 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. This use is reserved for countries outside Europe.
- 5.511 Additional allocation: in Saudi Arabia, Bahrain, Bosnia and Herzegovina, Cameroon, Egypt, the United Arab Emirates, Guinea, Iran (Islamic Republic of), Iraq, Israel, the Libyan Arab Jamahiriya, Kuwait, Lebanon, Pakistan, Qatar, the Syrian Arab Republic and Somalia, the band 15.35-15.4 GHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-07)
- 5.511A The band 15.43 15.63 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. Use of the band 15.43 15.63 GHz by the fixed-satellite service (space-to-Earth and Earth-to-space) is limited to feeder links of non-geostationary systems in the mobile-satellite service, subject to coordination under No. 9.11A. The use of the frequency band 15.43 15.63 GHz by the fixed-satellite service (space-to-Earth) is limited to feeder links of non-geostationary systems in the mobile-satellite service for which advance publication information has been received by the Bureau prior to 2 June 2000. In the space-to-Earth direction, the minimum earth station elevation angle above and gain towards the local horizontal plane and the minimum coordination distances to protect an earth station from harmful interference shall be in accordance with Recommendation ITU-R S.1341. In order to protect the radio astronomy service in the band 15.35 15.4 GHz, the aggregate power flux-density radiated in the 15.35 15.4 GHz band by all the space stations within any feeder-link of a non-geostationary system in the mobile-satellite service (space-to-Earth) operating in the 15.43 15.63 GHz band shall not exceed the level of -156 dB(W/m²) in a 50 MHz bandwidth, into any radio astronomy observatory site for more than 2% of the time. (WRC-2000)
- 5.511C Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340. The minimum coordination distance required to protect the aeronautical radionavigation stations (No. 4.10 applies) from harmful interference from feeder-link earth stations and the maximum e.i.r.p. transmitted towards the local horizontal plane by a feeder-link earth station shall be in accordance with Recommendation ITU-R S.1340. (WRC-97)
- 5.511D Fixed-satellite service systems for which complete information for advance publication has been received by the Bureau by 21 November 1997 may operate in the bands 15.4 15.43 GHz and 15.63 15.7 GHz in the space-to-Earth direction and 15.63 15.65 GHz in the Earth-to-space direction. In the bands 15.4 15.43 GHz and 15.65 15.7 GHz, emissions from a non-geostationary space station shall not exceed the power flux-density limits at the Earth's surface of -146 dB(W/m²/MHz) for any angle of arrival. In the band 15.63 15.65 GHz, where an administration plans emissions from a non-geostationary space station that exceed -146 dB(W/m²/MHz) for any angle of arrival, it shall coordinate under No. 9.11A with the affected administrations. Stations in the fixed-satellite service operating in the band 15.63 15.65 GHz in the Earth-to-space direction shall not cause harmful interference to stations in the aeronautical radionavigation service (No. 4.10 applies). (WRC-97)
- Additional allocation: in Algeria, Angola, Saudi Arabia, Austria, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Congo (Rep. of the), Costa Rica, Egypt, El Salvador, the United Arab Emirates, Eritrea, Finland, Guatemala, India, Indonesia, Iran (Islamic Republic of), the Libyan Arab Jamahiriya, Jordan, Kenya, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Montenegro, Mozambique, Nepal, Nicaragua, Oman, Pakistan, Qatar, Syrian Arab Republic, Serbia, Singapore, Somalia, Sudan, Swaziland, Tanzania, Chad, Togo and Yemen, the band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-07)
- 5.513 Additional allocation: in Israel, the band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. These services shall not claim protection from or cause harmful interference to services operating in accordance with the Table in countries other than those included in No. 5.512.
- 5.513A Spaceborne active sensors operating in the band 17.2 17.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (WRC-97)
- Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, Costa Rica, El Salvador, the United Arab Emirates, Guatemala, India, Iran (Islamic Republic of), Iraq, Israel, Italy, the Libyan Arab Jamahiriya, Japan, Jordan, Kuwait, Lithuania, Nepal, Nicaragua, Nigeria, Oman, Uzbekistan, Pakistan, Qatar, Kyrgyzstan and Sudan, the band 17.3-17.7 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits given in Nos. 21.3 and 21.5 shall apply. (WRC-07)
- 5.515 In the band 17.3-17.8 GHz, sharing between the fixed-satellite service (Earth-to-space) and the broadcasting-satellite service shall also be in accordance with the provisions of § 1 of Annex 4 of Appendix 30A.
- 5.516 The use of the band 17.3-18.1 GHz by geostationary-satellite systems in the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. The use of the band 17.3-17.8 GHz in Region 2 by systems in the fixed-satellite service (Earth-to-space) is limited to geostationary satellites. For the use of the band 17.3-17.8 GHz in Region 2 by feeder links for the broadcasting-satellite service in the band 12.2-12.7 GHz, see Article 11. The use of the bands 17.3-18.1 GHz (Earth-to-space) in Regions 1 and 3 and 17.8-18.1 GHz (Earth-to-space) in Region 2 by non-geostationary-satellite systems in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-

geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)

- 5.516A In the band 17.3-17.7 GHz, earth stations of the fixed-satellite service (space-to-Earth) in Region 1 shall not claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix 30A, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder-link earth stations anywhere within the service area of the feeder link. (WRC-03)
- 5.516B The following bands are identified for use by high-density applications in the fixed-satellite service (HDFSS):

17.3 - 17.7 GHz (space-to-Earth) in Region 1

18.3 - 19.3 GHz (space-to-Earth) in Region 2

19.7 - 20.2 GHz (space-to-Earth) in all Regions

39.5 - 40 GHz (space-to-Earth) in Region 1

40 - 40.5 GHz (space-to-Earth) in all Regions

40.5 - 42 GHz (space-to-Earth) in Region 2

47.5 - 47.9 GHz (space-to-Earth) in Region 1

48.2 - 48.54 GHz (space-to-Earth) in Region 1

49.44 - 50.2 GHz (space-to-Earth) in Region 1

and

27.5 - 27.82 GHz (Earth-to-space) in Region 1

28.35 - 28.45 GHz (Earth-to-space) in Region 2

28.45 - 28.94 GHz (Earth-to-space) in all Regions

28.94 - 29.1 GHz (Earth-to-space) in Region 2 and 3

29.25 - $29.46\ GHz$ (Earth-to-space) in Region 2

29.46 - 30 GHz (Earth-to-space) in all Regions

48.2 - 50.2 GHz (Earth-to-space) in Region 2.

This identification does not preclude the use of these bands by other fixed-satellite service applications or by other services to which these bands are allocated on a co-primary basis and does not establish priority in these Regulations among users of the bands. Administrations should take this into account when considering regulatory provisions in relation to these bands. See Resolution 143 (WRC-03). (WRC-03)

- 5.519 Additional allocation: the bands 18.0-18.3 GHz in Region 2 and 18.1-18.4 GHz in Regions 1 and 3 are also allocated to the meteorological-satellite service (space-to-Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-07)
- 5.520 The use of the band 18.1 18.4 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcasting-satellite service. (WRC-2000)
- 5.521 Alternative allocation: in Germany, Denmark, the United Arab Emirates and Greece, the band 18.1 18.4 GHz is allocated to the fixed, fixed-satellite (space-to-Earth) and mobile services on a primary basis (see No. 5.33). The provisions of No. 5.519 also apply. (WRC-03)
- 5.522A The emissions of the fixed service and the fixed-satellite service in the band 18.6 18.8 GHz are limited to the values given in Nos. 21.5A and 21.16.2, respectively. (WRC-2000)
- 5.522B The use of the band 18.6 18.8 GHz by the fixed-satellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (WRC-2000)
- 5.522C In the band 18.6-18.8 GHz, in Algeria, Saudi Arabia, Bahrain, Egypt, the United Arab Emirates, the Libyan Arab Jamahiriya, Jordan, Lebanon, Morocco, Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen, fixed-service systems in operation at the date of entry into force of the Final Acts of WRC-2000 are not subject to the limits of No. 21.5A. (WRC-2000)
- 5.523A The use of the bands 18.8-19.3 GHz (space-to-Earth) and 28.6-29.1 GHz (Earth-to-space) by geostationary and non-geostationary fixed-satellite service networks is subject to the application of the provisions of No. 9.11A and No. 22.2 does not apply. Administrations having geostationary-satellite networks under coordination prior to 18 November 1995 shall cooperate to the maximum extent possible to coordinate pursuant to No. 9.11A with non-geostationary-satellite networks for which notification information has been received by the Bureau prior to that date, with a view to reaching results acceptable to all the parties concerned. Non-geostationary-satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service networks for which complete Appendix 4 notification information is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- 5.523B The use of the band 19.3 19.6 GHz (Earth-to-space) by the Fixed-satellite service is limited to feeder links for non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. 9.11A, and No. 22.2 does not apply.
- 5.523C No. 22.2 of the Radio Regulations shall continue to apply in the bands 19.3 19.6 GHz and 29.1 29.4 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix 4 coordination information, or notification information, is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- 5.523D The use of the band 19.3-19.7 GHz (space-to-Earth) by geostationary fixed-satellite service systems and by feeder links for non-geostationary-satellite systems in the mobile-satellite service is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2. The use of this band for other non-geostationary fixed-satellite service systems, or for the cases indicated in Nos. 5.523C and 5.523E, is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
- 5.523E No. 22.2 shall continue to apply in the bands 19.6-19.7 GHz and 29.4 29.5 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix 4 coordination

- information, or notification information, is considered as having been received by the Bureau by 21 November 1997. (WRC-97)
- 5.524 Additional allocation: in Afghanistan, Algeria, Angola, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Costa Rica, Egypt, the United Arab Emirates, Gabon, Guatemala, Guinea, India, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Tanzania, Chad, Togo and Tunisia, the band 19.7-21.2 GHz is also allocated to the fixed and mobile services on a primary basis. This additional use shall not impose any limitation on the power flux-density of space stations in the fixed-satellite service in the band 19.7-21.2 GHz and of space stations in the mobile-satellite service in the band 19.7-20.2 GHz where the allocation to the mobile-satellite service is on a primary basis in the latter band. (WRC-07)
- 5.525 In order to facilitate interregional coordination between networks in the mobile-satellite and fixed-satellite services, carriers in the mobile-satellite service that are most susceptible to interference shall, to the extent practicable, be located in the higher parts of the bands 19.7 20.2 GHz and 29.5 30 GHz
- 5.526 In the bands 19.7 20.2 GHz and 29.5 30 GHz in Region 2, and in the bands 20.1 20.2 GHz and 29.9 30 GHz in Regions 1 and 3, networks which are both in the fixed-satellite service and in the mobile-satellite service may include links between earth stations at specified or unspecified points or while in motion, through one or more satellites for point-to-point and point-to-multipoint communications.
- 5.527 In the bands 19.7 20.2 GHz and 29.5 30 GHz, the provisions of No 4.10 do not apply with respect to the mobile-satellite service.
- 5.528 The allocation to the mobile-satellite service is intended for use by networks which use narrow spot-beam antennas and other advanced technology at the space stations. Administrations operating systems in the mobile-satellite service in the band 19.7 20.1 GHz in Region 2 and in the band 20.1 20.2 GHz shall take all practicable steps to ensure the continued availability of these bands for administrations operating fixed and mobile systems in accordance with the provisions of No. 5.524.
- 5.530 In Regions 1 and 3, the use of the band 21.4-22 GHz by the broadcasting-satellite service is subject to the provisions of Resolution 525 (Rev.WRC-07). (WRC-07)
- 5.532 The use of the band 22.21 22.5 GHz by the Earth exploration-satellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services.
- 5.533 The inter-satellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.
- 5.535 In the band 24.75-25.25 GHz, feeder links to stations of the broadcasting-satellite service shall have priority over other uses in the fixed-satellite service (Earth-to-space). Such other uses shall protect and shall not claim protection from existing and future operating feeder-link networks to such broadcasting satellite stations.
- 5.535A The use of the band 29.1 29.5 GHz (Earth-to-space) by the fixed-satellite service is limited to geostationary-satellite systems and feeder links to non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2, except as indicated in Nos. 5.523C and 5.523E where such use is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
- 5.536 Use of the 25.25 27.5 GHz band by the inter-satellite service is limited to space research and Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space.
- 5.536A Administrations operating earth stations in the Earth exploration-satellite service or the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the Earth exploration-satellite service or in the space research service should be operated taking into account Recommendations ITU-R SA.1278 and ITU-R SA.1625, respectively. (WRC-03)
- 5.536B In Germany, Saudi Arabia, Austria, Belgium, Brazil, Bulgaria, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Spain, Estonia, Finland, France, Hungary, India, Iran (Islamic Republic of), Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jordan, Kenya, Kuwait, Lebanon, Liechtenstein, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Sweden, Switzerland, Tanzania, Turkey, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-07)
- 5.536C In Algeria, Saudi Arabia, Bahrain, Botswana, Brazil, Cameroon, Comoros, Cuba, Djibouti, Egypt, United Arab Emirates, Estonia, Finland, Iran (Islamic Rep. of), Israel, Jordan, Kenya, Kuwait, Lithuania, Malaysia, Morocco, Nigeria, Oman, Qatar, the Syrian Arab Republic, Somalia, Sudan, Tanzania, Tunisia, Uruguay, Zambia and Zimbabwe, earth stations operating in the space research service in the band 25.5 27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-03)
- 5.537 Space services using non-geostationary satellites operating in the inter-satellite service in the band 27-27.5 GHz are exempt from the provisions of No. 22.2.
- 5.537A In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Japan, Kazakhstan, Lesotho, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9-28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-07). (WRC-07)

- 5.538 Additional allocation: the bands 27.500-27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07)
- 5.539 The band 27.5 30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.
- 5.540 Additional allocation: the band 27.501 29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.
- 5.541 In the band 28.5 30 GHz, the earth exploration-satellite service is limited to the transfer of data between stations and not to the primary collection of information by means of active or passive sensors.
- 5.541A Feeder links of non-geostationary networks in the mobile-satellite service and geostationary networks in the fixed-satellite service operating in the band 29.1 29.5 GHz (Earth-to-space) shall employ uplink adaptive power control or other methods of fade compensation, such that the earth station transmissions shall be conducted at the power level required to meet the desired link performance while reducing the level of mutual interference between both networks. These methods shall apply to networks for which Appendix 4 coordination information is considered as having been received by the Bureau after 17 May 1996 and until they are changed by a future competent world radiocommunication conference. Administrations submitting Appendix 4 information for coordination before this date are encouraged to utilize these techniques to the extent practicable. (WRC-2000)
- 5.542 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Pakistan, Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Somalia, Sudan, Sri Lanka and Chad, the band 29.5-31 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits specified in Nos. 21.3 and 21.5 shall apply. (WRC-07)
- 5.543 The band 29.95 30 GHz may be used for space-to-space links in the Earth exploration-satellite service for telemetry, tracking, and control purposes, on a secondary basis.
- 5.543A In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Japan, Kazakhstan, Lesotho, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 31-31.3 GHz may also be used by systems using high altitude platform stations (HAPS) in the ground-to-HAPS direction. The use of the band 31-31.3 GHz by systems using HAPS is limited to the territory of the countries listed above and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems, systems in the mobile service and systems operated under No. 5.545. Furthermore, the development of these services shall not be constrained by HAPS. Systems using HAPS in the band 31-31.3 GHz shall not cause harmful interference to the radio astronomy service having a primary allocation in the band 31.3-31.8 GHz, taking into account the protection criterion as given in Recommendation ITU-R RA.769. In order to ensure the protection of satellite passive services, the level of unwanted power density into a HAPS ground station antenna in the band 31.3-31.8 GHz shall be limited to -106 dB(W/MHz) under clear-sky conditions, and may be increased up to -100 dB(W/MHz) under rainy conditions to mitigate fading due to rain, provided the effective impact on the passive satellite does not exceed the impact under clear-sky conditions. See Resolution 145 (Rev.WRC-07). (WRC-07)
- 5.544 In the band 31 31.3 GHz the power flux-density limits specified in Article 21, Table 21-4 shall apply to the space research service.
- 5.545 Different category of service: in Armenia, Georgia, Mongolia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 31-31.3 GHz to the space research service is on a primary basis (see No. **5.33**). (WRC-07)
- 5.546 Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, the United Kingdom, South Africa, Tajikistan, Turkmenistan and Turkey, the allocation of the band 31.5-31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33). (WRC-07)
- 5.547 The bands 31.8-33.4 GHz, 37-40 GHz, 40.5-43.5 GHz, 51.4-52.6 GHz, 55.78-59 GHz and 64-66 GHz are available for high-density applications in the fixed service (see Resolution 75 (WRC-2000)). Administrations should take this into account when considering regulatory provisions in relation to these bands. Because of the potential deployment of high-density applications in the fixed-satellite service in the bands 39.5-40 GHz and 40.5-42 GHz (see No. 5.516B), administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-07)
- 5.547A Administrations should take practical measures to minimize the potential interference between stations in the fixed service and airborne stations in the radionavigation service in the 31.8 33.4 GHz band, taking into account the operational needs of the airborne radar systems. (WRC-2000)
- 5.548 In designing systems for the inter-satellite service in the band 32.3 33 GHz, for the radionavigation service in the band 32 33 GHz, and for the space research service (deep space) in the band 31.8 32.3 GHz, administrations shall take all necessary measures to prevent harmful interference between these services, bearing in mind the safety aspects of the radionavigation service (see Recommendation 707). (WRC-03)
- Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, the Libyan Arab Jamahiriya, Jordan, Kuwait, Lebanon, Malaysia, Mali, Malta, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, Sri Lanka, Togo, Tunisia and Yemen, the band 33.4-36 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-03)
- 5.549A In the band 35.5 36.0 GHz, the mean power flux-density at the Earth's surface, generated by any spaceborne sensor in the Earth exploration-satellite service (active) or space research service (active), for any angle greater than 0.8° from the beam centre shall not exceed 73.3 dB(W/m²) in this band. (WRC-03)

- 5.550 Different category of service: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Mongolia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 34.7-35.2 GHz to the space research service is on a primary basis (see No. 5.33). (WRC-07)
- 5.550A For sharing of the band 36-37 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile services, Resolution 752 (WRC-07) shall apply. (WRC-07)
- 5.551H The equivalent power flux-density (epfd) produced in the band 42.5-43.5 GHz by all space stations in any non-geostationary-satellite system in the fixed-satellite service (space-to-Earth), or in the broadcasting-satellite service (space-to-Earth) operating in the 42-42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station for more than 2% of the time:
 - $-230 \text{ dB}(\text{W/m}^2)$ in 1 GHz and $-246 \text{ dB}(\text{W/m}^2)$ in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and
 - $-209 \text{ dB}(\text{W/m}^2)$ in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station.

These epfd values shall be evaluated using the methodology given in Recommendation ITU-R S.1586-1 and the reference antenna pattern and the maximum gain of an antenna in the radio astronomy service given in Recommendation ITU-R RA.1631 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle θ_{min} of the radiotelescope (for which a default value of 5° should be adopted in the absence of notified information).

These values shall apply at any radio astronomy station that either:

- was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or
- was notified before the date of receipt of the complete Appendix 4 information for coordination or notification, as appropriate, for the space station to which the limits apply.

Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorized the space stations. In Region 2, Resolution 743 (WRC-03) shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-07)

- 5.551I The power flux-density in the band 42.5 43.5 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth), or the broadcasting-satellite service (space-to-Earth) operating in the 42 42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station:
 - $-137 \text{ dB(W/m}^2)$ in 1 GHz and $-153 \text{ dB(W/m}^2)$ in any 500 kHz of the 42.5 43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and
 - $-116~\mathrm{dB(W/m^2)}$ in any 500 kHz of the 42.5 43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station.

These values shall apply at the site of any radio astronomy station that either:

- -was in operation prior to 5 July 2003 and has been notified to the Radiocommunication Bureau before 4 January 2004; or
- -was notified before the date of receipt of the complete Appendix 4 information for coordination or notification, as appropriate, for the space station to which the limits apply.

Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorized the space stations. In Region 2, Resolution 743 (WRC-03) shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-03)

- 5.552 The allocation of the spectrum for the fixed-satellite service in the bands 42.5 43.5 GHz and 47.2 50.2 GHz for Earth-to-space transmission is greater than that in the band 37.5 39.5 GHz for space-to-Earth transmission in order to accommodate feeder links to broadcasting satellites. Administrations are urged to take all practicable steps to reserve the band 47.2 49.2 GHz for feeder links for the broadcasting-satellite service operating in the band 40.5 42.5 GHz.
- 5.552A The allocation to the fixed service in the bands 47.2-47.5 GHz and 47.9-48.2 GHz is designated for use by high altitude platform stations. The use of the bands 47.2-47.5 GHz and 47.9-48.2 GHz is subject to the provisions of Resolution 122 (Rev.WRC-07). (WRC-07)
- 5.553 In the bands 43.5 47 GHz and 66 71 GHz, stations in the land mobile service may be operated subject to not causing harmful interference to the space radiocommunication services to which these bands are allocated (see No. 5.43). (WRC-2000)
- 5.554 In the bands 43.5 47 GHz, 66 71 GHz, 95 100 GHz, 123 130 GHz, 191.8 200 GHz and 252 265 GHz, satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with the mobile-satellite service or the radionavigation-satellite service. (WRC-2000)
- 5.554A The use of the bands 47.5 47.9 GHz, 48.2 48.54 GHz and 49.44 50.2 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary satellites. (WRC-03)
- 5.555 Additional allocation: the band 48.94 49.04 GHz is also allocated to the radio astronomy service on a primary basis. (WRC-2000)
- 5.555B The power flux-density in the band 48.94 49.04 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth) operating in the bands 48.2 48.54 GHz and 49.44 50.2 GHz shall not exceed -151.8 dB(W/m²) in any 500 kHz band at the site of any radio astronomy station. (WRC-03)
- 5.556 In the bands 51.4 54.25 GHz, 58.2 59 GHz and 64 65 GHz, radio astronomy observations may be carried out under national arrangements. (WRC-2000)
- 5.556A Use of the bands 54.25 56.9 GHz, 57 58.2 GHz and 59 59.3 GHz by the inter-satellite service is limited to satellites in the

- geostationary-satellite orbit. The single-entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, shall not exceed $-147 \text{ dB}(\text{W/m}^2 \cdot 100 \text{ MHz})$ for all angles of arrival. (WRC-97)
- 5.557A In the band 55.78 56.26 GHz, in order to protect stations in the Earth exploration-satellite service (passive), the maximum power density delivered by a transmitter to the antenna of a fixed service station is limited to -26 dB(W/MHz). (WRC-2000)
- 5.558 In the bands 55.78 58.2 GHz, 59 64 GHz, 66 71 GHz, 122.25 123 GHz, 130 134 GHz, 167 174.8 GHz and 191.8 200 GHz, stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the intersatellite service (see No. 5.43). (WRC-2000)
- 5.558A Use of the band 56.9 57 GHz by inter-satellite systems is limited to links between satellites in geostationary-satellite orbit and to transmissions from non-geostationary satellites in high-Earth orbit to those in low-Earth orbit. For links between satellites in the geostationary-satellite orbit, the single entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface, for all conditions and for all methods of modulation, shall not exceed -147 dB(W/m² · 100 MHz) for all angles of arrival. (WRC-97)
- 5.559 In the band 59 64 GHz, airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the inter-satellite service (see No. 5.43). (WRC-2000)
- 5.560 In the band 78 79 GHz radars located on space stations may be operated on a primary basis in the earth exploration-satellite service and in the space research service.
- 5.561 In the band 74 76 GHz, stations in the fixed, mobile and broadcasting services shall not cause harmful interference to stations of the fixed-satellite service or stations of the broadcasting-satellite service operating in accordance with the decisions of the appropriate frequency assignment planning conference for the broadcasting-satellite service. (WRC-2000)
- 5.561A The 81 81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis. (WRC-2000)
- 5.562 The use of the band 94 94.1 GHz by the Earth exploration-satellite (active) and space research (active) services is limited to spaceborne cloud radars. (WRC-97)
- 5.562A In the bands 94-94.1 GHz and 130-134 GHz, transmissions from space stations of the Earth exploration-satellite service (active) that are directed into the main beam of a radio astronomy antenna have the potential to damage some radio astronomy receivers. Space agencies operating the transmitters and the radio astronomy stations concerned should mutually plan their operations so as to avoid such occurrences to the maximum extent possible. (WRC-2000)
- 5.562B In the bands 105-109.5 GHz, 111.8-114.25 GHz, 155.5-158.5 GHz and 217-226 GHz, the use of this allocation is limited to space-based radio astronomy only. (WRC-2000)
- 5.562C Use of the band 116 122.25 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed –148 dB(W/(m² · MHz)) for all angles of arrival. (WRC-2000)
- 5.562D Additional allocation: In Korea (Rep. of), the bands 128-130 GHz, 171-171.6 GHz, 172.2-172.8 GHz and 173.3-174 GHz are also allocated to the radio astronomy service on a primary basis until 2015. (WRC-2000)
- 5.562E The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5 134 GHz. (WRC-2000)
- 5.562F In the band 155.5 158.5 GHz, the allocation to the Earth exploration-satellite (passive) and space research (passive) services shall terminate on 1 January 2018. (WRC-2000)
- 5.562G The date of entry into force of the allocation to the fixed and mobile services in the band 155.5-158.5 GHz shall be 1 January 2018. (WRC-2000)
- 5.562H Use of the bands 174.8 182 GHz and 185 190 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed
 - $-144 \text{ dB}(\text{W/(m}^2 \cdot \text{MHz}))$ for all angles of arrival. (WRC-2000)
- 5.563A In the bands 200 209 GHz, 235 238 GHz, 250 252 GHz and 265 275 GHz, ground-based passive atmospheric sensing is carried out to monitor atmospheric constituents. (WRC-2000)
- 5.563B The band 237.9 238 GHz is also allocated to the Earth exploration-satellite service (active) and the space research service (active) for spaceborne cloud radars only. (WRC-2000)
- 5.565 The frequency band 275-1 000 GHz may be used by administrations for experimentation with, and development of, various active and passive services. In this band a need has been identified for the following spectral line measurements for passive services:
 - radio astronomy service: 275-323 GHz, 327-371 GHz, 388-424 GHz, 426-442 GHz, 453-510 GHz, 623-711 GHz, 795-909 GHz and 926-945 GHz;
 - Earth exploration-satellite service (passive) and space research service (passive): 275-277 GHz, 294-306 GHz, 316-334 GHz, 342-349 GHz, 363-365 GHz, 371-389 GHz, 416-434 GHz, 442-444 GHz, 496-506 GHz, 546-568 GHz, 624-629 GHz, 634-654 GHz, 659-661 GHz, 684-692 GHz, 730-732 GHz, 851-853 GHz and 951-956 GHz.

Future research in this largely unexplored spectral region may yield additional spectral lines and continuum bands of interest to the passive services. Administrations are urged to take all practicable steps to protect these passive services from harmful interference until the date when the allocation Table is established in the above-mentioned frequency band. (WRC-2000)

- Note by the Secretariat: This Resolution was revised by WRC-03 Note by the Secretariat: This Resolution was revised by WRC-2000

Annex 3 - Relevant ECC/ERC Decisions and Recommendations

ECC/DEC/(11)03	ECC Decision of 24 June 2011 on the harmonized use of frequencies for Citizen' Band (CB) radio equipment
ECC/DEC/(11)02	ECC Decision of 11 March 2011 on the industrial Level Probing Radars (LPR) operating in frequency bands 6-8.5 GHz, 24.05-26.5 GHz, 57-64 GHz and 75-85 GHz
ECC/DEC/(11)01	ECC Decision of 11 March 2011 on the protection of EESS in the band 1400-1427 MHz
ECC/DEC/(10)02	ECC Decision of 12 November 2010 on compatibility between the fixed satellite service in the 30-31 GHz band and the Earth exploration satellite service (passive) in the 31.3-31.5 GHz band
ECC/DEC/(10)01	ECC Decision of 12 November 2010 on sharing conditions in the 10.6-10.68 GHz band between the fixed service, mobile service and Earth exploration satellite service (passive)
ECC/DEC/(09)04	ECC Decision of 30 October 2009 on exemption from individual licensing and the free circulation and use of transmit-only mobile satellite terminals operating in the Mobile-Satellite Service allocations in the 1613.8 - 1626.5 MHz band
ECC/DEC/(09)03	ECC Decision of 30 October 2009 on harmonised conditions for Mobile/Fixed Communications Networks (MFCN)operating in the band 790-862 MHz
ECC/DEC/(09)02	ECC Decision of 26 June 2009 on the harmonisation of the bands 1610-1626.5 MHz and 2483.5-2500 MHz for use by systems in the Mobile-Satellite Service
ECC/DEC/(09)01	ECC Decision of 13 March 2009 on the harmonised use of the 63-64 GHz frequency band for Intelligent Transport Systems (ITS)
ECC/DEC/(08)08	ECC Decision of 31 October 2008 on the harmonised use of GSM system on board vessels in the frequency bands 880-915/925-960 MHz and 1710-1785/1805-1880 MHz
ECC/DEC/(08)05	ECC Decision of 27 June 2008 on the harmonisation of frequency bands for theimplementation of digital Public Protection and Disaster Relief (PPDR) radio applications in bands within the 380-470 MHz range
ECC/DEC/(08)01	ECC Decision of 14 March 2008 on the harmonised use of the 5875-5925 MHz frequency band for Intelligent Transport Systems (ITS)
ECC/DEC/(07)05	ECC Decision of 21 December 2007 on exemption from individual licensing of land mobile satellite terminals operating in the Mobile-Satellite Service allocation in the frequency range 1-3 GHz
ECC/DEC/(07)04	ECC Decision of date/month 2007 on free circulation and use of mobile satellite terminals operating in the Mobile-Satellite Service allocation in the frequency range 1-3 GHz
ECC/DEC/(07)02	ECC Decision of 30 March 2007 on availability of frequency bands between 3400-3800 MHz for the Harmonised implementation of Broadband Wireless Access systems (BWA)
ECC/DEC/(06)13	ECC Decision of 1 December 2006 on designation of the bands 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz for terrestrial IMT-2000/UMTS systems
ECC/DEC/(06)12	ECC Decision of 1 December 2006 amended Cordoba, 31 October 2008 on supplementary regulation provisions to Decision ECC/DEC/(06)04 for UWB devices using mitigation techniques
ECC/DEC/(06)10	ECC Decision of 1 December 2006 on transitional arrangements for the Fixed Service and tactical radio relay systems in the bands 1980-2010 MHz and 2170-2200 MHz in order to facilitate the harmonised introduction and development of systems in the Mobile Satellite Service including those supplemented by a Complementary Ground Component
ECC/DEC/(06)09	ECC Decision of 1 December 2006 on designation of the bands 1980-2010 MHz and 2170-2200 MHz for use by systems in the Mobile-Satellite Service (MSS) including those supplemented by a Complementary Ground Component (CGC) amended 5 September 2007
ECC/DEC/(06)07	ECC Decision of 1 December 2006 on The harmonised use of airborne GSM systems in the frequency bands 1710-1785 and 1805-1880 MHz amended 13 June 2009
ECC/DEC/(06)06	ECC Decision of 7 July 2006 on the availability of frequency bands for the introduction of Narrow Band Digital Land Mobile PMR/PAMR in the 80 MHz, 160 MHz and 400 MHz bands
ECC/DEC/(06)05	ECC Decision of 7 July 2006 on the harmonised frequency bands to be designated for Air-Ground-Air operation (AGA) of Digital Land Mobile Systems for the Emergency Services
ECC/DEC/(06)04	ECC Decision of 24 March 2006 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz amended 6 July 2007
ECC/DEC/(06)03	ECC Decision of 24 March 2006 on Exemption from Individual Licensing of high e.i.r.p. satellite terminals (HEST) with e.i.r.p. above 34 dBW operating within the Frequency Bands 10.70–12.75 GHz or 19.70–20.20 GHz space–to–Earth and 14.00–14.25 GHz or 29.50–30.00 GHz Earth–to–space
ECC/DEC/(06)02	ECC Decision of 24 March 2006 on Exemption from Individual Licensing of Low e.i.r.p. Satellite Terminals (LEST) operating within the Frequency Bands 10.70–12.75 GHz or 19.7–20.2 GHz space–to–Earth and 14.00–14.25 GHz or 29.50–30.00 GHz Earth–to–Space.
ECC/DEC/(06)01	ECC Decision of 24 March 2006 on the harmonised utilisation of spectrum for terrestrial IMT-2000/UMTS systems operating within the bands 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz
ECC/DEC/(05)12	ECC Decision of 28.10.2005 on harmonised frequencies, technical characteristics, exemption from individual licensing and free carriage and use of digital PMR 446 applications operating in the frequency band 446.1 – 446.2 MHz
ECC/DEC/(05)11	ECC Decision of 24 June 2005 on the free circulation and use of Aircraft Earth Stations (AES) in the frequency bands 14–14.5 GHz (Earth–to–space), 10.7–11.7GHz (space–to–Earth) and 12.5–12.75 GHz (Space–to–Earth)
ECC/DEC/(05)10	ECC Decision of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in fixed satellite service networks in the frequency bands 14 –14.5 GHz (Earth–to–space), 10.7–11.7 GHz (space–to–Earth) and 12.5–12.75 GHz (space–to–Earth)
ECC/DEC/(05)09	ECC Decision of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in Fixed Satellite service networks in the frequency bands 5 925–6 425 MHz (Earth-to-space) and 3 700–4 200 MHz (space-to-Earth)
ECC/DEC/(05)08	ECC Decision of 24 June 2005 on the availability of frequency bands for High Density applications in the Fixed–Satellite Service (space–to–Earth and Earth–to–space)
ECC/DEC/(05)05	ECC Decision of 18 March 2005 on harmonised utilisation of spectrum for IMT-2000/UMTS systems operating within the band 2500-2690 MHz
ECC/DEC/(05)02	ECC Decision of 18 March 2005 on the use of the frequency band 169.4–169.8125 MHz

ECC/DEC/(05)01	ECC Decision of 18 March 2005 on the use of the band 27.5–29.5 GHz by fixed service and uncoordinated Earth stations of the fixed–satellite service (Earth–to–space)
ECC/DEC/(0410	ECC Decision of 12 November 2004 on the frequency bands to be designated for the temporary introduction of Automative Short Range Radars (SRR) amended 5 September 2007
ECC/DEC/(04)09	ECC Decision of 12 November 2004 on designation of the bands 1518–1525 MHz and 1670–1675 MHz for the Mobile Satellite Service amended 25 June 2009
ECC/DEC/(04)08	ECC Decision of 9 July 2004 on the harmonised use of the 5 GHz frequency bands for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) amended 3 November 2009
ECC/DEC/(04)06	ECC Decision of 19 March 2004 on the availability of frequency bands for the introduction of Wide Band Digital Land Mobile PMR/PAMR in the 400 MHz and 800/900 MHz bands amended 26 June 09
ECC/DEC/(04)03	ECC Decision of 19 March 2004 on the frequency band 77–81 GHz to be designated for the use of Automotive Short Range Radars
ECC/DEC/(03)02	ECC Decision of 17 October 2003 on the designation of the frequency band 1479.5–1492MHz for use by Satellite Digital Audio Broadcasting systems
ECC/DEC/(02)10	ECC Decision of 15 November 2002 on exemption from individual licensing of GSM–R mobile terminals operating within the frequency bands 876–880 MHz and 921–925 MHz for railway purposes
ECC/DEC/(02)09	ECC Decision of 15 November 2002 on free circulation and use of GSM–R mobile terminals operating within the frequency bands 876–880 MHz and 921–925 MHz for railway purposes in CEPT member countries, enlarging the field of application of ERC/DEC/(95)01
ECC/DEC/(02)06	ECC Decision of 15 November 2002 on the designation of frequency band 2500–2690 MHz for UMTS/IMT–2000
ECC/DEC/(02)05	ECC Decision of 5 July 2002 on the designation and availability of frequency bands for railway purposes in the 876–880 and 921–925 MHz bands amended 26 June 2009
ECC/DEC/(02)04	ECC Decision of 15 March 2002 on the use of the band 40.5–42.5 GHz by terrestrial (fixed service / broadcasting service) systems and uncoordinated Earth stations in the fixed satellite service and broadcasting–satellite service (space to Earth)
ECC/DEC/(02)01	ECC Decision of 15 March 2002 on the frequency bands to be designated for the coordinated introduction of Road Transport and Traffic Telematic Systems
ERC/DEC/(01)19	ERC Decision of 12 March 2001 on harmonised frequency bands to be designated for the Direct Mode Operation (DMO) of the Digital Land Mobile Systems for the Emergency Services
ERC/DEC/(01)17	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Ultra Low Power Active Medical Implants operating in the frequency band 402–405 MHz
ERC/DEC/(01)16	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for inductive applications operating in the frequency band 26.957 – 27.283 MHz
ERC/DEC/(01)12	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Model control operating in the frequencies 40.665, 40.675, 40.685 and 40.695 MHz
ERC/DEC/(01)11	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Flying Model control operating in the frequency band 34.995–35.225 MHz
ERC/DEC/(01)10	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Model control operating in the frequencies 26.995, 27.045, 27.095, 27.145 and 27.195 MHz
ERC/DEC/(01)08	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Movement Detection and Alert operating in the frequency band 2400–2483.5 MHz
ERC/DEC/(01)07	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Radio Local Area Networks (RLANs) operating in the frequency band 2400–2483.5 MHz
ERC/DEC/(01)03	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Non-specific Short Range Devices operating in the frequency band 40.660–40.700 MHz
ERC/DEC/(01)02	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Non–specific Short Range Devices operating in the frequency band 26.957–27.283 MHz
ERC/DEC/(00)08	ERC Decision of 19 October 2000 on the use of the band 10.7 - 12.5 GHz by the fixed service and Earth stations of the broadcasting-satellite and fixed-satellite service
ERC/DEC/(00)07	ERC Decision of 19 October 2000 on the shared use of the band 17.7–19.7 GHz by the fixed service and Earth stations of the fixed satellite services (space–to–Earth)
ERC/DEC/(00)02	ERC Decision of 27 March 2000 on the use of the band 37.5–40.5 GHz by the fixed service and Earth stations of the fixed – satellite service (space to Earth)
ERC/DEC/(99)17 ERC/DEC/(99)15	ERC Decision of 1 June 1999 on the Automatic Identification and Surveillance system (AIS) channels in the maritime VHF band ERC Decision of 1 June 1999 on the designation of the harmonised frequency band 40.5 to 43.5 GHz for the introduction of Multimedia Wireless Systems (MWS) including Multipoint Video Distribution Systems (MVDS) amended 5 March 2010
ERC/DEC/(99)06	ERC Decision of 10 March 1999 on the harmonised introduction of satellite personal communication systems operating in the bands below 1 GHz (S-PCS<1GHz)
ERC/DEC/(98)25	ERC Decision of 23 November 1998 on the harmonized frequency band to be designated for PMR 446
ERC/DEC/(97)02	ERC Decision of 21 March 1997 on the extended frequency bands to be used for the GSM Digital Pan–European Communications System
ERC/DEC/(95)03	ERC Decision of 1 December 1995 on the frequency bands to be designated for the introduction of DCS 1800
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
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
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ECC/REC/(11)10	Location Tracking Application for emergency and disaster situations

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mobile systems	ECC/REC/(08)04	
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ECC/REC/(02)09 Protection of Aeronautical Radio Navigation Service in the band 2700–2900 MHz from interference caused by the operation of Digital Cordless Cumcras	ECC/REC/(05)02	Use of the 64–66 GHz frequency band for Fixed Service
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CEPT/ERC/REC 25–10	Frequency ranges for the use of temporary terrestrial audio and video SAP/SAB links (incl. ENG/OB)
CEPT/ERC/REC 62–02	Harmonised frequency band for civil and military airborne telemetry applications
CEPT/ERC/REC 70–03	Relating to the use of Short Range Devices (SRD)
T/R 12-01	Harmonized radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 37 GHz–39.5 GHz
T/R 13-01	Preferred channel arrangements for fixed services in the range 1–3 GHz
T/R 13-02	Preferred channel arrangements for fixed services in the range 22.0–29.5 GHz
T/R 25-08	Planning criteria and coordination of frequencies in the land mobile service in the range 29.7–921 MHz
T/R 32-02	Frequencies to be used by on-board communication stations

Annex 4 - European Standards included in the ECA Table

Standard name	Short Standard title
EN 300 065	Narrow-band direct-printing telegraph equipment for receiving meteorological or navigational information (NAVTEX)
EN 300 066	Float-free maritime satellite Emergency Position Indicating Radio Beacons (EPIRBs) operating in the 406.0 to 406.1 MHz
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech
EN 300 113	Land mobile service; Radio equipment intended for the transmission of data (and speech) and having an antenna connector
EN 300 135	Angle-modulated Citizens Band radio equipment (CEPT PR 27 Radio Equipment)
EN 300 152	Maritime Emergency Position Indicating Radio Beacons (EPIRBs) intended for use on the frequency 121.5 MHz or the frequencies 121.5 MHz and 243 MHz for homing purposes only
EN 300 162	Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands
EN 300 219	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver
EN 300 220	SRD; Radio equipment to be used in the 25 to 1 000 MHz frequency range with power levels ranging up to 500 mW
EN 300 224	Electromagnetic compatibility and Radio spectrum Matters (ERM); On-site paging service
EN 300 296	Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech
EN 300 328	Wideband Transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques
EN 300 330	SRD; Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
EN 300 341	Land Mobile Service (RP 02); Radio equipment using an integral antenna transmitting signals to initiate a specific response in the receiver
EN 300 373	Maritime mobile transmitters and receivers for use in the MF and HF bands
EN 300 390	Land Mobile Service; Radio equipment intended for the transmission of data (and speech) and using an integral antenna
EN 300 422	Wireless microphones in the 25 MHz to 3 GHz frequency range
EN 300 433	Land Mobile Service; Double Side Band (DSB) and/or Single Side Band (SSB) amplitude modulated citizen's band radio equipment
EN 300 440	Short Range Devices; Radio equipment to be used in the 1 to 40 GHz frequency range
EN 300 454	Wide band audio links
EN 300 471	Land Mobile Service; Rules for Access and the Sharing of common used channels by equipment complying with EN 300 113
EN 300 674	Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s/250 kbit/s) operating in the 5.8 GHz
EN 300 676	Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation
EN 300 698	Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterways
EN 300 718	Avalanche Beacons; Transmitter-receiver systems
EN 300 720	Electromagnetic compatibility and Radio Spectrum Matters (ERM) Ultra-High Frequency (UHF) on-board communications systems and equipment
EN 300 761	Short Range Devices (SRD); Automatic Vehicle Identification (AVI) for railways operating in the 2.45 GHz frequency range
EN 301 025	VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC)

EN 301 091	Short Range Devices;Road Transport and Traffic Telematics (RTTT); Radar equipment operating in the 76 GHz to 77 GHz range
EN 301 166	Land Mobile Service; Radio equipment for analogue and/or digital communication (speech and/or data) and operating on narrow band channels and having an antenna connector
EN 301 178	Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only)
EN 301 357	Analogue cordless wideband audio devices using integral antennas operating in the CEPT recommended 863 to 865 MHz frequency range
EN 301 360	Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT) transmitting towards geostationary satellites in the 27.5 to 29.5 GHz
EN 301 406	Digital Enhanced Cordless Telecommunications (DECT)
EN 301 426	Low data rate Land Mobile satellite Earth Stations (LMES) and Maritime Mobile satellite Earth Stations (MMES) not intended for distress and safety communications operating in the 1.5/1.6 GHz
EN 301 427	Low data rate Mobile satellite Earth Stations (MESs) except aeronautical mobile satellite earth stations, operating in the $11/12/14~\mathrm{GHz}$
EN 301 428	$Very \ Small \ Aperture \ Terminal \ (VSAT); \ Transmit-only, \ transmit/receive \ or \ receive-only \ satellite \ earth \ stations \ operating \ in \ the \ 11/12/14 \ GHz$
EN 301 430	Satellite News Gathering Transportable Earth Stations (SNG TES) operating in the 11-12/13-14 GHz frequency bands
EN 301 441	Mobile Earth Stations (MESs), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1.6/2.4 GHz bands under the Mobile Satellite Service (MSS)
EN 301 442	Mobile Earth Stations (MESs), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 2.0 GHz bands under the Mobile Satellite Service (MSS)
EN 301 443	Very Small Aperture Terminal (VSAT);Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz
EN 301 444	Land Mobile Earth Stations (LMES) operating in the 1.5 GHz and 1.6 GHz bands providing voice and/or data communications
EN 301 447	Harmonized EN for satellite Earth Stations on board Vessels (ESVs) operating in the 4/6 GHz frequency bands allocated to the Fixed Satellite Service (FSS)
EN 301 449	CDMA spread spectrum base stations operating in the 450 MHz cellular band (CDMA 450) and 410, 450 and 870 MHz PAMR bands (CDMA-PAMR)
EN 301 459	Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29.5 GHz to 30.0 GHz
EN 301 473	Aircraft Earth Stations (AES) operating under the Aeronautical Mobile Satellite Service (AMSS)/Mobile Satellite Service (MSS) and/or the Aeronautical Mobile Satellite on Route Service (AMS(R)S), MSS
EN 301 502	Global System for Mobile communications (GSM); Base Station and Repeater equipment covering essential requirements under article 3.2 of the R&TTE directive
EN 301 511	Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements
EN 301 526	CDMA spread spectrum mobile stations operating in the 450 MHz cellular band (CDMA 450) and 410, 450 and 870 MHz PAMR bands (CDMA-PAMR)
EN 301 681	Mobile Earth Stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1.5/1.6 GHz under MSS
EN 301 721	Mobile Earth Stations (MES) providing Low Bit Rate Data Communications (LBRDC) using Low Earth Orbiting (LEO) satellites operating below 1 GHz
EN 301 783	Land Mobile Service; Commercially available amateur radio equipment
EN 301 839	Radio equipment in the frequency range 402 MHz to 405 MHz for Ultra Low Power Active Medical Implants and Accessories
EN 301 893	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN
EN 301 908	Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks
EN 301 929	VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile

EN 301 997	Radio equipment for use in Multimedia Wireless Systems (MWS) in the frequency band 40.5 GHz to 43.5 GHz
EN 302 017	Transmitting equipment for the Amplitude Modulated (AM) sound broadcasting service
EN 302 018	Transmitting equipment for the Frequency Modulated (FM) sound broadcasting service
EN 302 054	Meteorological Aids (Met Aids); Radiosondes to be used in the 400.15 to 406 MHz frequency range with power levels ranging up to 200 mW
EN 302 064	Wireless Video Links (WVL) operating in the 1.3 GHz to 50 GHz
EN 302 065	Ultra WideBand (UWB) technologies for communication purposes
EN 302 066	Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 077	Transmitting equipment for the Terrestrial – Digital Audio Broadcasting (T-DAB) service
EN 302 152	Satellite Personal Locator Beacons (PLBs) operating in the 406.0 MHz to 406.1 MHz
EN 302 186	Satellite mobile Aircraft Earth Stations (AESs) operating in the 11/12/14 GHz
EN 302 194	Navigation radar used on inland waterways
EN 302 195	Radio equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active Medical Implants (ULP-AMI) and accessories
EN 302 208	Radio Frequency Identification Equipment operating in the band 865 to 868 MHz with power levels up to 2 W
EN 302 217	Characteristics and requirements for point-to-point equipment and antennas
EN 302 245	Transmitting equipment for the Digital Radio Mondiale (DRM) broadcasting service
EN 302 248	Navigation radar for use on non-SOLAS vessels
EN 302 264	Short Range Radar operating in 77-81 GHz
EN 302 288	Short range radar equipment operating in the 24 GHz range
EN 302 291	SRD Close Range Inductive Data Communication equipment operating at 13.56 MHz
EN 302 296	Digital television broadcast service, terrestrial (DVB-T)
EN 302 297	Transmitting equipment for the analogue television broadcasting service
EN 302 326	Multipoint Equipment and Antennas
EN 302 340	Satellite Earth Stations on board Vessels (ESVs) operating in the 11/12/14 GHz frequency bands
EN 302 372	Tank Level Probing Radar (TLPR) operating in the frequency bands $5.8~\mathrm{GHz},10~\mathrm{GHz},25~\mathrm{GHz},61~\mathrm{GHz}$ and $77~\mathrm{GHz}$
EN 302 426	CDMA spread spectrum Repeaters operating in the 450 MHz cellular band (CDMA450) and the 410 MHz, 450 MHz and 870 MHz PAMR bands (CDMA-PAMR)
EN 302 435	Building Material Analysis (BMA) and Classification equipment using UWB technology
EN 302 448	Tracking Earth Stations on Trains (ESTs) operating in the 14/12 GHz frequency bands
EN 302 454	Radiosondes to be used in the 1 668.4 MHz to 1 690 MHz frequency range
EN 302 480	GSM onboard aircraft system
EN 302 498	Object Discrimination and Characterisation (ODC) equipment using UWB technology
EN 302 500	Location Tracking equipment operating in 6-8.5 GHz using UWB technology
EN 302 502	5.8 GHz fixed broadband data transmitting systems
EN 302 510	Radio equipment in the frequency range 30 MHz to 37.5 MHz for Ultra Low Power Active Medical Membrane Implants and Accessories
EN 302 536	Radio equipment in the frequency range 315 kHz to 600 kHz
EN 302 537	Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz
EN 302 544	Broadband Data Transmission Systems in 2500-2690 MHz using TDD
EN 302 561	Radio equipment using constant or non-constant envelope modulation operating in a channel bandwith of 25 kHz 50 kHz 100 kHz or 150 kHz

EN 302 567	60 GHz Multiple Gigabit Wideband Data Transmission Systems
EN 302 574	Harmonised Standard for satellite earth station for MSS operating in the 1980 to 2010 MHz (earth-to-space) and 2170 to 2200 MHz (space-to-earth) frequency bands
EN 302 571	Intelligent Transport Systems (ITS); Radiocommunications equipment operating in the 5855 MHz to 5925 MHz frequency band
EN 302 608	Radio equipment for Eurobalise railway systems
EN 302 609	Radio equipment for Euroloop railway systems
EN 302 623	BWA equipment in the 3.4-3.8 GHz frequency range
EN 302 625	5 GHz BroadBand Disaster Relief applications (BBDR)
EN 302 645	GNSS Repeaters
EN 302 686	Radiocommunications equipment operating in the 63 to 64 GHz frequency band
EN 302 752	Active Radar Target Enhancers
EN 302 977	Vehiclular Earth stations operating in Ku-band

Annex 5 - List of abbreviations used in the ECA Table

AGA - Air Ground Air

AIS - Automatic Identification System

AMS(R)S - Aeronautical Mobile Satellite (Route) Services

APP - Appendix of the ITU Radio Regulations

AVI - Automatic Vehicle Idenfication
BBDR - Broad Band Disaster Relief

BFWA - Broadband Fixed Wireless Access

BMA - Building Material Analysis

BSS - Broadcasting Satellite Service

BWA - Broadband Wireless Access

CB - Citizen Band

CEPT - European Conference of Postal and Telecommunications Administrations

CGC - Complementary Ground Component

CRS - Central Radio Station

DEC - Decision

DECT - Digital Enhanced Cordless Telecommunication

DME - Distance Measuring Equipment

DMO - Direct Mode Operation

DSC - Digital Selective Calling

DSI - Detailed Spectrum Investigation

DVB-T - Terrestrial Digital Video Broadcasting

ECA - European Common Allocation

ECC - Electronic Communications Committee

ECP - Electronic Countermeasures

- European Common Proposal

EESS - Earth Exploration-Satellite Service

EFIS - European Frequency Information System

EGSM - Extended GSM

EISCAT - European Incoherent SCATter facility

ENG - Electronic News Gathering

EPIRB - Emergency Position-Indicating Radiobeacon
ERC - European Radiocommunications Committee
ERO - European Radiocommunications Office

EST - Earth Stations on Trains

E/s - Earth-to-space direction

EU - EUropean footnote

FB - Base station (fixed base)

FDD - Frequency Division Duplex
FM - Frequency Modulation
FSS - Fixed-Satellite Service
FWA - Fixed Wireless Access
GE75 - Geneva 1975 Agreement

GE85 - Geneva 1985 Agreement

GLONASS - Global Navigation Satellite System

GMDSS - Global Maritime Distress and Safety System

GNSS - Global Navigation Satellite System

GPS - Global Positioning System

GSM - Global System for Mobile Communications

GSM 1800 - Global System for Mobile Communications using 1800 MHz band

GSM-R - GSM for Railways

HAPS - High Altitude Platform SystemsHDFS - High Density Fixed Service

HDFSS - High Density Fixed-Satellite Service

HDTV - High Definition TelevisionHEST - High E.i.r.p. Satellite Terminals

HF - High Frequency

HIPERLAN - High Performance Radio Local Area Network

IALA - International Association of Lighthouse Authorities
IBCN - Integrated Broadband Communications Network

ILS - Instrument Landing System

IMO - International Maritime Organisation

IMT - International Mobile Telecommunications

ISM - Industrial, Scientific and Medical
ITS - Intelligent Transport Systems

ITU - International Telecommunication Union

JTIDS - Joint Tactical Information Distribution System

LAES - Location Application for Emergency Services

LDC - Low Duty Cycle

LEST - Low E.i.r.p. Satellite Terminals

LP-AMI - Low Power Active Medical Implants

LPR - Level Probing Radar
LT2 - Location Tracking Type 2

MIDS - Multifunctional Information Distribution System
MCA - Mobile Communications Services on Board Aircraft
MCV - Mobile Communication Services on Board Vessels

MES - Mobile Earth Stations

MFCN - Mobile/Fixed Communications Networks
ML - Mobile Link (Mobile station transmits)

MLS - Microwave Landing System
MSI - Maritime Safety Information
MSS - Mobile-Satellite Service
MWS - Multimedia Wireless System

NATO - North Atlantic Treaty Organisation

NAVTEX - Narrow-band direct-printing telegraphy system for transmission of navigational and

meteorological warnings and urgent information to ships

NDB - Non-Directional Beacon

NJFA - NATO Joint Civil/Military Frequency Agreement

OB - Outside Broadcasting

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(OR) - Off-Route

ODC - Object Discrimination and Characterisation

PAMR - Public Access Mobile Radio
PKO - Peace Keeping Operations

PMR - Professional Mobile Radio, Private Mobile Radio

PPDR - Public Protection and Disaster Relief

PWAP - Private Wide Area Paging

(R) - Route

R&TTE - Radio Equipment and Telecommunications Terminal Equipment

RA - Radio Astronomy
REC - Recommendation

RFID - Radio Frequency Identification

RLANS - Radio Local Area Network System

RR - ITU Radio Regulations

RTTT - Road Transport & Traffic Telematics
SAB - Services Ancillary to Broadcasting
SAP - Services Ancillary to Programming

SAR(communications) - Search and Rescue

S-DAB - Satellite Digital Audio Broadcasting

s/E - space-to-Earth direction
SIT - Satellite Interactive Terminal
SNG - Satellite News Gathering

S-PCS - Satellite Personal Communication System

SRD - Short Range Device SRR - Short Range Radar

SSR - Secondary Surveillance Radar

SUT - Satellite User Terminal
TACAN - Tactical Air Navigation

T-DAB - Terrestrial Digital Audio Broadcasting

TDD - Time Division Duplex

TETRA - Terrestrial Trunked Radio

TLPR - Tank Level Probing Radar

TRA-ECS - Terrestrial Radio Applications Capable of Providing Electronic Communications

Services

TRR - Tactical Radio Relays
TS - Terminal Station
TV - Television

UIC - International Union for Railways

ULP-AMI - Ultra Low Power Active Medical Implants
UMTS - Universal Mobile Telecommunications System

UWB - Ultra – Wideband

VLBI - Very Long Baseline Interferometry (Radio Astronomy)

VOR - VHF Omni-directional Range
VSAT - Very Small Aperture Terminal
VTS - Vessel Traffic System (radar)

WARC - World Administrative Radio Conference

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WAS - Wireless Access System

WRC - World Radiocommunication Conference