

THE EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS COVERING THE FREQUENCY RANGE 9 kHz TO 275 GHz

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EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS FREQUENCY RANGE 9 kHz TO 275 GHz

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EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS FREQUENCY RANGE 9 kHz TO 275 GHz

1 INTRODUCTION

Following the World Administrative Radio Conference in 1992 which allocated spectrum to new services in the 1 - 3 GHz frequency range CEPT began to develop a general plan to promote the harmonised European use of frequencies within the band 1350 - 2690 MHz. Particular importance was attached to the early development of such a general plan in order to provide a framework for the implementation of the decisions of WARC-92 and the consequential changes required, in a harmonised way, throughout CEPT member countries and to provide the necessary guidance for European radio equipment manufacturers to commence production.

Since then CEPT has endorsed the principle of adopting a harmonised European Table of Frequency Allocations and Utilisations by the year 2008. This work is being progressed by the CEPT European Radiocommunications Office (ERO) through a series of Detailed Spectrum Investigations (DSIs) which consider in turn different frequency ranges. The DSIs were developed as a major open and transparent consultation process in close cooperation with industry, organizations, administrations and users within the following frequency bands:

- The DSI Phase I covering the frequency range 3400 105 GHz developed in 1992-93
- The DSI Phase II covering the frequency range 29.7-960 MHz developed in 1994-95
- The DSI Phase III covering the frequency range 862-3400 MHz developed in 1998-2000

As a result of the DSIs the CEPT adopted the Harmonised European Table of Frequency Allocations and Utilisations. The first table was agreed upon in June 1994 and several updates have been agreed until the current version (Lisbon January 2002)

2 WARC-92, WRC-95, WRC-97 and WRC-2000

Due account has been taken of the relevant decisions of the World Radio Conferences WARC-92, WRC-95 ,WRC-97 and WRC-2000 and of strategies developed by other international fora concerning, in particular, the introduction and development of mobile and mobile-satellite services.

3 EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS

A European Table of Frequency Allocations and Utilisations for the frequency band 9 kHz to 275 GHz expected beyond the year 2008 has been developed and is attached as Annex 1 to this Report. Although the implementation of this Table has been arranged for the year 2008 it is expected that CEPT member countries will endeavour to implement, as soon as possible, as many parts of the Table as they are able. It is also expected that the Table will be used as a source document by CEPT member countries for the development of Recommendations, Decisions, and European Common Proposals (ECPs) for future Radio Conferences of the ITU and as background for development of national frequency allocation tables and national frequency usage plans.

This Report and its associated table will be reviewed periodically (once a year) and revised as necessary by the ECC taking into account the results of World Radio Conferences, future DSIs, ECC/ERC Decisions and other relevant developments.

4 CEPT DECISIONS AND RECOMMENDATIONS

During the preparation of the 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, have been incorporated into the Table and are listed in Annex 4.

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 established a project team (JPT1) which has looked in detail at the requirements for harmonised military usage of spectrum to meet the needs of both NATO and non-NATO CEPT countries. The results of the studies by JPT1 are reflected in the Table.

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 specific harmonised band.

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 employment and support electronic countermeasures (ECM) training.

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

4

ANNEX 1

EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND UTILISATIONS IN THE RANGE 9 kHz TO 275 GHz EXPECTED BEYOND THE YEAR 2008

EXPLANATORY NOTES TO THE TABLE

The heading of this table includes a number of columns, with the following contents:

Column 1: Frequency Band

Indicates the frequency band referred to in that row of the table

Column 2: RR Region 1 Allocations and relevant footnotes

Contains in each frequency band:

- Current RR Article 5 allocations which correspond to Region 1.
- Current RR Article 5 footnotes relevant to CEPT countries

See Annex 3 for description of the RR Article 5 footnotes included in the table.

Column 3: <u>European Common Allocation (ECA)</u>

Contains in each frequency band:

- Allocations of major use or major interest in CEPT member countries expected beyond 2008.
- RR Art. 5 footnotes affecting a major number of CEPT countries beyond 2008. RR Art 5 footnotes with specific allocation 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 2

Column 4: Major utilisation

This column includes where appropriate in each frequency band and for the services allocated in the European Common Allocation:

- The major uses in CEPT member countries expected beyond 2008.
- Mention of systems expected to be in use in a major number of CEPT member countries beyond the year 2008.

Mention of specific utilisations of a given service does not preclude the use of other services mentioned in the European Common Allocation.

Column 5: EU footnotes

This column contains EU footnotes relevant to the particular utilization.

Column 6: ECC/ERC document

This column contains information about ECC/ERC Decisions and Recommendations relevant to the particular utilization. The ECC/ERC

documents are described in Annex 4

Column 7: Standards

This column contains information about the relevant standards.

For Harmonised Standards as defined in the R&TTE Directive see Annex 5

Column 5: Notes

This column indicates where appropriate in each frequency band:

Where applicable, the date of entry into force of:

- a) a specific allocation of the European Common Allocation column.
- b) ERC Decision / ERC Recommendation mentioned in the utilisations column
- c) major utilisation contained in the utilisation column.

Any other relevant information such as the nature of use of a major utilisation.

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). 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.

European Common Allocation Table - Frequency bands within 9 kHz - 275 GHz

ERC Report 25 Annex 1

RR	RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
9	- 14	kHz						
RADI	IONAVIGATION		RADIONAVIGATION EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
				ISM applications				
				Ultra Low Power Active N	Medical Implants	ERC REC 70-03	EN 300 330	
14	<i>-</i> 19.95	kHz						
FIXE			FIXED	Inductive SRD		ERC REC 70-03	EN 300 330	
MAR 5.55	ITIME MOBILE 5.57	7	MARITIME MOBILE 5.57 5.56 EU2	Maritime applications		ERC DEC (01)13		
5.56				Military applications				
				Ultra Low Power Active M		ERC REC 70-03	EN 300 330	
	- 20.05 NDARD FREQUENC	kHz Y AND TIME	STANDARD FREQUENCY AND TIME					
SIGN	AL (20 kHz)		SIGNAL (20 kHz)					
20.05	- 70	kHz						
FIXE MAR	D ITIME MOBILE 5.57	7	FIXED MARITIME MOBILE 5.57	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
5.56			5.56 EU2	Maritime applications				
5.58				Military applications				
				Ultra Low Power Active M		ERC REC 70-03	EN 300 330	

RR f	RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
70	- 72	kHz						
RADIO	ONAVIGATION 5.60)	RADIONAVIGATION 5.60 EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
				Ultra Low Power Active Medi		ERC REC 70-03	EN 300 330	
72	- 84	kHz						
FIXED			FIXED	DCF time signal				77.5 kHz
	TIME MOBILE 5.57 DNAVIGATION 5.60)	MARITIME MOBILE 5.57 RADIONAVIGATION 5.60 5.56 EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
				Maritime applications				
				Military applications				
				Ultra Low Power Active Medi		ERC REC 70-03	EN 300 330	
84	- 86	kHz						
RADIO	ONAVIGATION 5.60)	RADIONAVIGATION 5.60 EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
			EUZ	Military applications		Lice Die (01)13		
				Ultra Low Power Active Medi	cal Implants	ERC REC 70-03	EN 300 330	

RR f	RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU-footnote	ERC Document	nt Standard	Note
86	- 90	kHz						
FIXED MARI) ΓΙΜΕ MOBILE 5.57		FIXED MARITIME MOBILE 5.57	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
	RADIONAVIGATION		RADIONAVIGATION	Maritime applications				
5.56			5.56 EU2	Military applications				
				Ultra Low Power Active M	ledical Implants	ERC REC 70-03	EN 300 330	
90	- 110	kHz						
RADIO	ONAVIGATION 5.6	2	RADIONAVIGATION 5.62	Inductive SRD		ERC REC 70-03	EN 300 330	
Fixed			Fixed			ERC DEC (01)13		
5.64			5.64 EU2	LORAN-C				
				Military applications				
				Ultra Low Power Active M	ledical Implants	ERC REC 70-03	EN 300 330	
110	- 112	kHz						
FIXED)		FIXED	Inductive SRD		ERC REC 70-03	EN 300 330	
	TIME MOBILE		MARITIME MOBILE			ERC DEC (01)13		
	ONAVIGATION		RADIONAVIGATION 5.64 EU2	Maritime applications				
5.64			3.0 4 EU2	Military applications				
				Ultra Low Power Active M		ERC REC 70-03	EN 300 330	

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	nt Standard	Note
112 - 115 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
		Maritime applications				
		Military applications				
		Ultra Low Power Active Medical		ERC REC 70-03	EN 300 330	
115 - 117.6 kHz						
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Inductive SRD		ERC REC 70-03	EN 300 330	
Fixed Maritime mobile	Fixed Maritime mobile	Maritime applications		ERC DEC (01)13		
5.64	5.64 EU2	warume applications				
5.66		Military applications				
		Ultra Low Power Active Medical		ERC REC 70-03	EN 300 330	
117.6 - 126 kHz						
FIXED	FIXED	Inductive SRD		ERC REC 70-03	EN 300 330	
MARITIME MOBILE	MARITIME MOBILE			ERC DEC (01)13		
RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 5.64 EU2	Maritime applications				
5.64	2.02	Military applications				
		Ultra Low Power Active Medical		ERC REC 70-03	EN 300 330	

RR foo	RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
126	- 129	kHz						
RADION	NAVIGATION 5.6	0	RADIONAVIGATION 5.60 EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
				Maritime applications				
				Military applications				
				Ultra Low Power Active Medica	al Implants	ERC REC 70-03	EN 300 330	
129	- 130	kHz						
FIXED			Inductive SRD		ERC REC 70-03	EN 300 330		
	MARITIME MOBILE RADIONAVIGATION 5.60		MARITIME MOBILE RADIONAVIGATION 5.60	Maritime applications		ERC DEC (01)13		
5.64			5.64 EU2	Maritime applications				
				Military applications				
				Ultra Low Power Active Medica	al Implants	ERC REC 70-03	EN 300 330	
130	<i>-</i> 148.5	kHz						
FIXED	ME MOBILE		FIXED MARITIME MOBILE	Amateur applications		ERC REC 62-01	EN 301 783	Within the band 135.7-137.8 kHz
5.64 5.67	WE MODILE		5.64 EU2	Inductive SRD		ERC REC 70-03 ERC DEC (01)13	EN 300 330	
5.07				Maritime applications				
				Military applications				
				Ultra Low Power Active Medica		ERC REC 70-03	EN 300 330	

RR f	RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
148.5	- 255	kHz						
BROA	DCASTING		BROADCASTING	Broadcasting				Assignment plan GE75 Digital systems to be introduced
				Ultra Low Power Active	Medical Implants	ERC REC 70-03	EN 300 330	
255	- 283.5							
	NAUTICAL RAI DCASTING	DIONAVIGATI	ON AERONAUTICAL RADIONAVIGATION BROADCASTING	Aeronautical Radio Beac	cons			
				Broadcasting				Frequency assignment plan GE75 Digital systems to be introduced
				Ultra Low Power Active	Medical Implants	ERC REC 70-03	EN 300 330	
MARI	- 315 NAUTICAL RAI ITIME RADION <i>A</i> OBEACON) 5.73	VIGATION	ON AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (RADIOBEACON) 5.73 5.74 EU2	Aeronautical Radio Beacons Maritime Radio Beacons Ultra Low Power Active		ERC REC 70-03	EN 300 330	Frequency assignment plan GE85 NDB Frequency Assignment plan GE85 IALA - plan to allow differential GPS
315	- 325 Nautical rai	kHz DIONAVIGATI	ON AERONAUTICAL RADIONAVIGATION	Aeronautical Radio Beac	rons			NDB
	ne Radionavigation) 5.73 Maritime Radionavigation (radiobeacons)					NDD
5.72 5.75			5.73 EU2	Maritime Radio Beacons	:			IALA - plan to allow differential GPS
325	- 405	kHz						
AERO	NAUTICAL RAI	DIONAVIGATI		Aeronautical Radio Beac	cons			
5.72			EU2					

MARITIME MOBILE 5.79 5.72 EU2 Maritime applications Frequency 435 - 495 KHZ MARITIME MOBILE 5.79 5.79A MARITIME MOBILE 5.79 5.79A Aeronautical Radionavigation 5.72 5.82 EU2 Maritime applications ERC REC 70-03 EN 300 718 457 kHz Aeronautical Radionavigation S.72 S.82 Navtex transmissions national language EN 300 065 490 kHz Receiver IF 455-457 ki	
415 - 435 kHz AERONAUTICAL RADIONAVIGATION MARITIME MOBILE 5.79 5.72 EU2 Maritime applications Frequency 435 - 495 kHz MARITIME MOBILE 5.79 S.79A MARITIME MOBILE 5.79 5.79A Detection of avalanche victims ERC REC 70-03 EN 300 718 457 kHz Aeronautical Radionavigation Aeronautical Radionavigation 5.72 5.82 EU2 Maritime applications ERC REC 70-03 EN 300 065 490 kHz Receiver IF 455-457 kd	
Maritime Radio Beacons 415 - 435 kHz AERONAUTICAL RADIONAVIGATION AERONAUTICAL RADIONAVIGATION ARITIME MOBILE 5.79 5.72 EU2 Maritime applications Frequency 435 - 495 kHz MARITIME MOBILE 5.79 5.79A MARITIME MOBILE 5.79 5.79A Detection of avalanche victims ERC REC 70-03 EN 300 718 457 kHz Aeronautical Radionavigation Aeronautical Radionavigation 5.72 5.82 EU2 Maritime applications Frequency Naviex transmissions national language EN 300 065 490 kHz Receiver IF 455-457 ki	
AERONAUTICAL RADIONAVIGATION MARITIME MOBILE 5.79 5.72 EU2 Maritime applications Frequency Maritime applications ERC REC 70-03 EN 300 718 457 kHz Aeronautical Radionavigation 5.72 5.82 Maritime applications Frequency	
MARITIME MOBILE 5.79 5.72 EU2 Maritime applications Frequency Maritime applications Frequency Maritime applications Frequency Maritime applications Frequency Maritime applications ERC REC 70-03 EN 300 718 457 kHz Aeronautical Radionavigation 5.72 5.82 EU2 Maritime applications Frequency Acronautical Radionavigation 5.82 EU2 Maritime applications Frequency Maritime applications Frequency Maritime applications Frequency Maritime applications Frequency Acronautical Radionavigation 5.82 EN 300 065 490 kHz	
MARITIME MOBILE 5.79 5.79A MARITIME MOBILE 5.79 5.79A Detection of avalanche victims ERC REC 70-03 EN 300 718 457 kHz Aeronautical Radionavigation Aeronautical Radionavigation 5.72 5.82 EU2 Maritime applications Frequency 5.82 Navtex transmissions national language EN 300 065 490 kHz Receiver IF 455-457 kl	Assignment plan GE85
MARITIME MOBILE 5.79 5.79A Aeronautical Radionavigation 5.72 5.82 Maritime applications Frequency 5.82 Navtex transmissions national language EN 300 065 490 kHz Receiver IF Aeronautical Radionavigation Frequency 455-457 kl	ssignment plan GE85
Aeronautical Radionavigation 5.72 5.82 EU2 Maritime applications Frequency Navtex transmissions national language EN 300 065 490 kHz Receiver IF 455-457 kI	
5.72 5.82 EU2 Maritime applications Frequency 5.82 Navtex transmissions national language EN 300 065 490 kHz Receiver IF 455-457 kHz	
Navtex transmissions national language EN 300 065 490 kHz Receiver IF 455-457 kI	ssignment plan GE85
05	
95 <i>-</i> 505 kHz	
MOBILE (distress and calling) MOBILE (distress and calling) Maritime GMDSS	
5.83	
05 – 526.5 kHz	
AERONAUTICAL RADIONAVIGATION AERONAUTICAL RADIONAVIGATION Aeronautical Radio Beacons Frequency MARITIME MOBILE 5.79 5.79A 5.84 MARITIME MOBILE 5.79 5.79A 5.84	ssignment plan GE85
	ssignment plan GE85
Navtex transmissions International EN 300 065 518 kHz	

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation EU-footnote ERC Docume	ent Standard Note
526.5 - 1606.5 kHz BROADCASTING	DRG ADG ACTIVIC	Broadcasting	Assignment plan GE75
BRUADCASTINU	BROADCASTING	Dioaucasting	Assignment plan GE/3 Digital systems to be introduced
1606.5 - 1625 kHz			
FIXED LAND MOBILE	FIXED LAND MOBILE	Maritime applications	Frequency assignment plan GE85
MARITIME MOBILE 5.90	MARITIME MOBILE 5.90 5.92 EU2	Military applications	
5.92	552 562	Radiodetermination applications	
1625 - 1635 kHz			
RADIOLOCATION 5.93	RADIOLOCATION 5.93 EU2	Radiodetermination applications	Brussels Agreement 67
1635 - 1800 kHz			
FIXED LAND MOBILE	FIXED LAND MOBILE	Maritime applications	Frequency assignment plan GE85
MARITIME MOBILE 5.90	MARITIME MOBILE 5.90 5.92 EU2	Military applications	
5.92 5.96	5.96	Radiodetermination applications	Brussels Agreement 67
1800 - 1810 kHz			
RADIOLOCATION 5.93	RADIOLOCATION 5.93 EU2	Radiodetermination applications	Brussels Agreement 67

RR fo	RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocat	ion Utilisation	EU-footnote	ERC Document	t Standard	Note
1810	- 1850	kHz						
AMATE	UR		AMATEUR	Amateur applications			EN 301 783	
5.98			5.100 EU2					
5.99			5.98					
5.100								
1850	- 2000	kHz						
FIXED			FIXED	Amateur applications			EN 301 783	
MOBILI	E except aeronaut	ical mobile	MOBILE					
5.92			5.103 EU2	Maritime applications				
5.96			5.92 5.96	MTV L				
5.103			5.96	Military applications				
				Radiodetermination app	plications			Brussels Agreement 67
2000	- 2025	kHz						
FIXED			FIXED	Maritime applications				
MOBILI	E except aeronaut	ical mobile (R)	MOBILE except aeronautical mo					
5.92			5.103 EU2 5.92	Military applications				
5.103			3.92	Radiodetermination app				Brussels Agreement 67
2025	- 2045	kHz						
FIXED			FIXED	Maritime applications				
MOBILI	E except aeronaut	ical mobile (R)	MOBILE					
	logical Aids 5.104		MOBILE except aeronautical mo	bile (R) Military applications				
5.92			5.103 EU2					
5.103			5.92	Radiodetermination app	plications			Brussels Agreement 67

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		to	European Common Allocation	Utilisation	EU-footnote	ERC Document	t Standard	Note
2045	- 2160	kHz						
FIXED LAND M	IOBILE		FIXED LAND MOBILE	International Merchand shipp	_			International telephony frequencies (ship TX) in accordance with RR 52.202 - 52.204
MARITII	MARITIME MOBILE		MARITIME MOBILE	Maritime applications				Frequency assignment plan GE85
5.92			5.92	Military applications				
2160	- 2170	kHz						
RADIOL	OCATION		RADIOLOCATION	Radiodetermination application	ons			Brussels Agreement 67
5.93			5.93 EU2					
2170	_ 2173.5	kHz						
MARITII	ME MOBILE		MARITIME MOBILE EU2	Maritime applications				Frequency assignment plan GE85
2173.5	- 2190.5	kHz						
MOBILE	(distress and calling	ng)	MOBILE (distress and calling)	DSC distress and calling				2187.5 kHz
5.108 5.109			5.108 EU2 5.109 5.110	Maritime GMDSS				2182 kHz distress and calling
5.110 5.111			5.111	Telex distress traffic				2174.5 kHz
2190.5	- 2194	kHz						
	ME MOBILE		MARITIME MOBILE EU2	Maritime applications				

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation EU-footnote ERC Document Standard Note
2194	- 2300	kHz		
FIXED MOBILE 5.92 5.103 5.112	except aeronautic	al mobile (R)	FIXED MOBILE except aeronautical mobile (R) 5.103 EU2 5.92	Maritime applications Military applications
FIXED	- 2498 CASTING 5.113 except aeronautic	kHz al mobile (R)	FIXED MOBILE except aeronautical mobile (R) 5.103 EU2	Maritime applications Military applications
	- 2501 RD FREQUENC (2500 kHz)	kHz Y AND TIME	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	
2501 STANDA SIGNAL Space Res	- 2502 RD FREQUENC	kHz Y AND TIME	STANDARD FREQUENCY AND TIME SIGNAL Space Research	
2502 FIXED MOBILE 5.92 5.103 5.114	- 2625 except aeronautic	kHz al mobile (R)	FIXED MOBILE except aeronautical mobile (R) 5.103 EU2 5.92	Military applications Radiodetermination applications

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		t to	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
2625	- 2650	kHz						
MARITIME MOBILE MARITIME RADIONAVIGATION 5.92		IGATION	MARITIME MOBILE MARITIME RADIONAVIGATION EU2 5.92	Maritime applications Military applications				
2650	- 2850	kHz						
FIXED MOBILE 5.92 5.103	except aeronauti	cal mobile (R)	FIXED MOBILE except aeronautical mobile (R) 5.103 5.92	Military applications Radiodetermination applications				
2850 AERONA 5.111 5.115	- 3025 UTICAL MOBI	kHz LE (R)	AERONAUTICAL MOBILE (R) 5.111 5.115	Aeronautical Mobile (R) application				3023 kHz
3025 AERONA	- 3155 .UTICAL MOBI	kHz LE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR) applicat	tions			Appendix 26 Allotment Plan
3155 FIXED MOBILE 5.116 5.117	- 3200 except aeronauti	kHz cal mobile (R)	FIXED MOBILE except aeronautical mobile (R) 5.116 EU2	Maritime applications Military applications				

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		to	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
3200 BROAD	- 3230 CASTING 5.113	kHz	FIXED MOBILE except aeronautical mobile (R)	Inductive SRD		ERC REC 70-03	EN 300 330	
MOBILE except aeronautical mobile (R) 5.116 EU2 5.116			Maritime applications Military applications					
FIXED	- 3400 CASTING 5.113 E except aeronautic	kHz al mobile	FIXED MOBILE except aeronautical mobile 5.116 EU2	Inductive SRD Maritime applications		ERC REC 70-03	EN 300 330	
3400 AERON.	- 3500 Autical mobii	kHz LE (R)	AERONAUTICAL MOBILE (R)	Military applications Aeronautical Mobile (R) applica	ations			Appendix 27 Allotment Plan Inlcuding HF Data Links
3500 AMATE FIXED MOBILE 5.92	- 3800 UR E except aeronautic	kHz cal mobile	AMATEUR FIXED MOBILE except aeronautical mobile 5.92 EU2	Amateur applications Military applications			EN 301 783	
3800 AERON. FIXED LAND M	- 3900 AUTICAL MOBII MOBILE	kHz LE (OR)	AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE EU2	Aeronautical Mobile (OR) appli	ications			

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		to	European Common Allocation		Utilisation	Utilisation EU-footnote ERC Document Standard				
3900	- 3950	kHz								
AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (OR)			Aeronautical Mobile (OR) app	lications			Appendix 26 Allotment Plan			
3950	- 4000	kHz								
BROADCA	STING		BROADCASTING		Broadcasting				Digital systems to be introduced	
FIXED			FIXED EU2		Military applications					
4000	- 4063	kHz								
FIXED	E MOBILE 5.12	7	FIXED MARITIME MOBILE 5.127		Maritime applications				Appendix 17 channeling plan Appendix 25 allotment plan	
MARITIME	E MOBILE 3.12	1	EU2							
4063	- 4438	kHz								
MARITIME 5.130 5.131	E MOBILE 5.79. 5.132	A 5.109 5.110	MARITIME MOBILE 5.79A 5.130 5.131 5.132	5.109 5.110	DSC calling				4208, 4208.5, 4209, 4219.5, 4220, 4220.5 kHz	
5.128			5.129 EU2		DSC distress traffic				4207.5 kHz	
5.129					Maritime applications				Appendix 17 channeling plan Appendix 25 allotment plan	
					Maritime Safety Information (Maritime Safety				4210 kHz	
					Meteorological and navigationa	al warnings			4209.5 kHz	
					Telephony distress traffic				4125 kHz	
					Telex distress traffic				4177.5 kHz	

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
4438 - 4650 kHz FIXED MOBILE except aeronautical mobile (R)	FIXED MOBILE except aeronautical mobile (R) EU2	Military applications Railway applications		ERC REC 70-03	EN 300 330	4515 kHz Euroloop
4650 - 4700 KHZ AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) a	pplications			Appendix 27 Allotment Plan Inlcuding HF Data Links
4700 - 4750 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR)				Appendix 26 Allotment Plan
4750 - 4850 kHz AERONAUTICAL MOBILE (OR) BROADCASTING 5.113 FIXED LAND MOBILE	AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE	Aeronautical Mobile (OR)	applications			
4850 - 4995 kHz BROADCASTING 5.113 FIXED LAND MOBILE	FIXED LAND MOBILE EU2	Military applications				
4995 - 5003 kHz STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)					

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
5003 - 5005 kHz						
STANDARD FREQUENCY AND TIMI SIGNAL Space Research	E STANDARD FREQUENCY AND TIME SIGNAL Space Research					
5005 - 5060 kHz BROADCASTING 5.113 FIXED	FIXED EU2	Military applications				
5060 - 5250 kHz FIXED Mobile except aeronautical mobile 5.133	FIXED Mobile except aeronautical mobile EU2	Military applications				
5250 - 5450 kHz FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile EU2	Military applications				
5450 - 5480 kHz AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE	AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE EU2	Aeronautical Mobile (OR) applications	cations			
5480 - 5680 kHz AERONAUTICAL MOBILE (R) 5.111 5.115	AERONAUTICAL MOBILE (R) 5.111 5.115	Aeronautical Mobile (R) applica Telephony distress traffic				Appendix 27 Allotment Plan Inlcuding HF Data Links 5680 kHz

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		European Common Allocation		Utilisation	EU-footnote	ERC Document	Standard	Note
5680 - 5730	kHz							
AERONAUTICAL MOE	SILE (OR)	AERONAUTICA	L MOBILE (OR)	Aeronautical Mobile (OR) a	pplications			Appendix 26 Allotment Plan
5.111 5.115		5.111 5.115		Telephony distress traffic				5680 kHz
5730 - 5900	kHz							
FIXED LAND MOBILE		FIXED LAND MOBILE	EU2	Military applications				
5900 - 5950 BROADCASTING 5.134 5.136	kHz	BROADCASTING 5.136	G 5.134	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
5950 - 6200 BROADCASTING	kHz	BROADCASTING	3	Broadcasting				Article 12 planning procedure Digital systems to be introduced
6200 - 6525 MARITIME MOBILE 5.	kHz 109 5.110 5.130 5.132	MARITIME MOE	BILE 5.109 5.110 5.130	DSC calling				6312.5, 6313, 6313.5, 6331, 6331.5, 6332
		5.132						kHz
5.137		5.137	EU2	DSC distress traffic				6312 kHz
				Maritime applications				Appendix 17 channeling plan Appendix 25 allotment plan
				Maritime Safety Information	(MSI)			6314 kHz
				Telephony distress traffic				6215 kHz
				Telex distress traffic				6268 kHz

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		to	European Common Allocation	Utilisation	EU-footnote	Standard	Note	
6525	- 6685	kHz						
AERON.	AERONAUTICAL MOBILE (R)		AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) applications				Appendix 27 Allotment Plan Inlcuding HF Data Links
6685 AERON	- 6765 AUTICAL MOBIL	kHz LE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR	.) applications		Appendix 26 Allotment Plan	
6765 FIXED	<i>-</i> 7000	kHz	FIXED	Inductive SRD		ERC REC 70-03	EN 300 330	6765-6795 kHz
Land Mo	obile 5.139		Land Mobile 5.139			ERC DEC (01)14		
5.138			5.138 EU2	ISM applications				
				Military applications				
				Non Specific SRD applica	ations	ERC REC 70-03 ERC DEC (01)01	EN 300 330	6765-6795 kHz
7000 AMATE	- 7100	kHz	AMATEUR	Amateur applications			EN 301 783	
AMATE	EUR-SATELLITE		AMATEUR-SATELLITE	Amateur-satellite applicat	tions			
7100 Broad	- 7300 Casting	kHz	BROADCASTING	Broadcasting				Article 12 planning procedure Digital systems to be introduced
7300 BROAD	- 7350 CASTING 5.134	kHz	BROADCASTING 5.134	Broadcasting				WARC92 bands to be implemented 2007
5.143			5.143	- 				Digital systems to be introduced

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation EU-foots	note ERC Document	Standard	Note
7350 - 8100 kHz					
FIXED Land Mobile	FIXED Land Mobile	Inductive SRD	ERC REC 70-03 ERC DEC (01)15	EN 300 330	7400-8800 kHz
	EU2	Military applications			
8100 - 8195 kHz					
FIXED MARITIME MOBILE	FIXED MARITIME MOBILE	Inductive SRD	ERC REC 70-03 ERC DEC (01)15	EN 300 330	7400-8800 kHz
	EU2	Maritime applications			Appendix 17 channeling plan
8195 <i>-</i> 8815 kHz					
MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145	DSC calling			8415, 8415.5, 8416, 8436.5, 8437, 8437.5 kHz
5.111	5.111 EU2	DSC distress traffic			8364 kHz and 8414.5 kHz
		Inductive SRD	ERC REC 70-03 ERC DEC (01)15	EN 300 330	
		Maritime applications			Appendix 17 channeling plan Appendix 25 allotment plan
		Maritime Safety Information (MSI)			8416.5 kHz
		Telephony distress traffic			8291 kHz
		Telex distress traffic			8376.5 kHz
8815 <i>-</i> 8965 kHz					
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) applications			Appendix 27 Allotment Plan Inlcuding HF Data Links

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		to	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
8965	- 9040	kHz						
AERON	AUTICAL MOBIL	E (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OF	R) applications			Appendix 26 Allotment Plan
				Military applications				
9040 FIXED	- 9400	kHz	FIXED EU2	Military applications				
9400 BROAD(5.146	- 9500 CASTING 5.134	kHz	BROADCASTING 5.134 5.146	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
9500 BROADO 5.147	- 9900 CASTING	kHz	BROADCASTING 5.147	Broadcasting				Article 12 planning procedure Digital systems to be introduced
9900 FIXED	- 9995	kHz	FIXED EU2	Military applications				
	- 10003 ARD FREQUENCY (10000 kHz)	kHz Y AND TIME	STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz)					

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band		0	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
STANDAL SIGNAL Space Res 5.111		kHz AND TIME	STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111					
10005 AERONA 5.111	- 10100 AUTICAL MOBILE	kHz E(R)	AERONAUTICAL MOBILE (R) 5.111	Aeronautical Mobile (R) appl	ications			Appendix 27 Allotment Plan Inleuding HF Data Links
10100 Amateur FIXED	- 10150	kHz	Amateur FIXED EU2	Amateur applications Military applications			EN 301 783	
10150 FIXED Mobile ex	- 11175	kHz nobile (R)	FIXED Mobile except aeronautical mobile (R) EU2	Military applications				
11175 AERONA	- 11275 AUTICAL MOBILE	kHz E (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR) app	plications			Appendix 26 Allotment Plan
11275 AERONA	- 11400 AUTICAL MOBILE	kHz E(R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) appl	ications			Appendix 27 Allotment Plan Inleuding HF Data Links

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
11400 - 11600 kHz						
FIXED	FIXED EU2	Military applications				
11600 - 11650 kHz						
BROADCASTING 5.134 5.146	BROADCASTING 5.134 5.146	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
11650 <i>-</i> 12050 kHz						
BROADCASTING	BROADCASTING	Broadcasting				Article 12 planning procedure Digital systems to be introduced
5.147	5.147					
12050 - 12100 kHz						
BROADCASTING 5.134	BROADCASTING	Broadcasting				WARC92 bands to be implemented 2007
5.146	5.146					Digital systems to be introduced
12100 - 12230 kHz						
FIXED	FIXED	Military applications				
	EU2					

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation EU-footnote ERC	Document Standard Note
12230 - 13200 kHz			
MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145	DSC calling	12577.5, 12578, 12578.5, 12657, 12657.5, 12658 kHz
	EU2	DSC distress traffic	12577 kHz
		Maritime applications	Appendix 17 channeling plan Appendix 25 allotment plan
		Maritime Safety Information (MSI)	12579 kHz
		Telephony distress traffic	12290 kHz
		Telex distress traffic	12520 kHz
13200 - 13260 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR) applications	Appendix 26 Allotment Plan
13260 - 13360 kHz AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) applications	Appendix 27 Allotment Plan Inleuding HF Data Links
13360 - 13410 kHz			
FIXED RADIO ASTRONOMY	FIXED RADIO ASTRONOMY	Military applications	
5.149	5.149 EU2	Radioastronomy	

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
13410 <i>-</i> 13570 kHz						
FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R)	Inductive SRD		ERC REC 70-03 ERC DEC (01)14	EN 300 330	13553-13567 kHz
5.150	5.150 EU2	ISM applications				13553-13567 kHz
		Military applications				
		Non Specific SRD applications		ERC REC 70-03 ERC DEC (01)01	EN 300 330	13553-13567 kHz
13570 <i>-</i> 13600 kHz						
BROADCASTING 5.134 5.151	BROADCASTING 5.134 5.151	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
13600 - 13800 kHz BROADCASTING	BROADCASTING	Broadcasting				Article 12 planning procedure Digital systems to be introduced
13800 - 13870 kHz						
BROADCASTING 5.134 5.151	BROADCASTING 5.134 5.151	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
13870 - 14000 kHz						
FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R) EU2	Military applications				
14000 - 14250 kHz						
AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Amateur applications			EN 301 783	
AWATEUN-SATELLITE	AWATEUN-SATELLITE	Amateur-satellite applications				

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
14250 <i>-</i> 14350 kHz						
AMATEUR	AMATEUR	Amateur applications			EN 301 783	
5.152						
14350 <i>-</i> 14990 kHz						
FIXED	FIXED	Military applications				
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R) EU2					
14990 - 15005 kHz						
STANDARD FREQUENCY AND TIME	STANDARD FREQUENCY AND TIME					
SIGNAL (15000 kHz) 5.111	SIGNAL (15000 kHz) 5.111					
5.111						
15005 - 15010 kHz						
STANDARD FREQUENCY AND TIME	STANDARD FREQUENCY AND TIME					
SIGNAL Space Research	SIGNAL Space Research					
15010 _ 15100 kHz						
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR) applic	cations			Appendix 26 Allotment Plan
15100 - 15600 kHz						
BROADCASTING	BROADCASTING	Broadcasting				Article 12 planning procedure
						Digital systems to be introduced
15600 - 15800 kHz						
BROADCASTING 5.134	BROADCASTING 5.134	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
5.146	5.146					0 y

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation EU-footnote ERC Document	Standard Note
15800 - 16360 kHz FIXED	FIXED EU2	Military applications	
16360 - 17410 kHz MARITIME MOBILE 5,109 5,110 5,132 5,145	MARITIME MOBILE 5.109 5.110 5.132	DSC calling	16805, 16805.5, 16806, 16903, 16903.5,
WARTINIE MODIEE 3.107 3.110 3.132 5.143	5.145 EU2	DSC distress traffic	16904 kHz 16804.5 kHz
		Maritime applications	Appendix 17 channeling plan Appendix 25 allotment plan
		Maritime Safety Information (MSI)	16806.5 kHz
		Telephony distress traffic	16420 kHz
		Telex distress traffic	16695 kHz
17410 - 17480 kHz FIXED	FIXED EU2	Military applications	
17480 - 17550 kHz BROADCASTING 5.134 5.146	BROADCASTING 5.134 5.146	Broadcasting	WARC92 bands to be implemented 2007 Digital systems to be introduced
17550 - 17900 kHz BROADCASTING	BROADCASTING	Broadcasting	Article 12 planning procedure Digital systems to be introduced

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation EU-footnote	ERC Document Standard	Note
17900 - 17970 kHz AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) applications		Appendix 27 Allotment Plan Inlouding HF Data Links
17970 - 18030 kHz AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (OR) applications		Appendix 26 Allotment Plan
18030 - 18052 kHz FIXED	FIXED EU2	Military applications		
18052 - 18068 kHz FIXED Space Research	FIXED Space Research EU2	Military applications		
18068 - 18168 kHz AMATEUR AMATEUR-SATELLITE 5.154	AMATEUR AMATEUR-SATELLITE	Amateur applications Amateur-satellite applications	EN 301 783	
18168 - 18780 kHz FIXED Mobile except aeronautical mobile	FIXED Mobile except aeronautical mobile	DSC calling Military applications		18898.5, 18899, 18899.5 kHz

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
18780 <i>-</i> 18900 kHz						
MARITIME MOBILE	MARITIME MOBILE EU2	Maritime applications				Appendix 17 channeling plan
18900 - 19020 kHz						
BROADCASTING 5.134 5.146	BROADCASTING 5.134 5.146	Broadcasting				WARC92 bands to be implemented 2007 Digital systems to be introduced
19020 - 19680 kHz FIXED	FIXED EU2					
		Military applications				
19680 - 19800 kHz						
MARITIME MOBILE 5.132	MARITIME MOBILE 5.132	DSC calling				19703.5, 19704, 19704.5 kHz
	EU2	Maritime applications				Appendix 17 channeling plan Appendix 25 allotment plan
		Maritime Safety Information (M				19680.5 kHz
19800 _ 19990 kHz						
FIXED	FIXED EU2	Military applications				
19990 _ 19995 kHz						
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Search and rescue applications				19993 kHz (+/- 3 kHz) concerning manned space vehicles
Space Research	Space Research 5.111					
5.111	5.111					

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
19995 - 20010 kHz						
STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz)					
5.111	5.111					
20010 - 21000 kHz						
FIXED	FIXED	Military applications				
Mobile	Mobile EU2					
21000 - 21450 kHz						
AMATEUR	AMATEUR	Amateur applications			EN 301 783	
AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-satellite applications				
21450 - 21850 kHz BROADCASTING	BROADCASTING	Broadcasting				Article 12 planning procedure Digital systems to be introduced
21850 - 21870 kHz FIXED 5.155A 5.155	FIXED 5.155A 5.155 EU2	Military applications				
21870 - 21924 kHz FIXED 5.155B	FIXED 5.155B EU2	Military applications				
21924 - 22000 kHz AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (R) applic				Appendix 27 Allotment Plan Inlcuding HF Data Links

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
22000 - 22855 kHz						
MARITIME MOBILE 5.132	MARITIME MOBILE 5.132 EU2	DSC calling				22374.5, 22375, 22375.5, 22444, 22444.5, 22445 kHz
		Maritime applications				Appendix 17 channeling plan Appendix 25 allotment plan
		Maritime Safety Information	n (MSI)			22376 kHz
22855 - 23000 kHz FIXED	FIXED EU2	Military applications				
23000 - 23200 kHz FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R) EU2	Military applications				
23200 - 23350 kHz AERONAUTICAL MOBILE (OR) FIXED 5.156A	AERONAUTICAL MOBILE (OR) FIXED 5.156A	Aeronautical Mobile (OR) a				
23350 - 24000 kHz FIXED MOBILE except aeronautical mobile 5.157	FIXED MOBILE except aeronautical mobile 5.157 EU2	Military applications				
24000 - 24890 kHz FIXED LAND MOBILE	FIXED LAND MOBILE EU2	Military applications				

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
24890 - 24990 kHz AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Amateur applications Amateur-satellite applications			EN 301 783	
24990 - 25005 kHz STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)					
25005 - 25010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL Space Research	Space Research				Scientific and medical space research
25010 - 25070 kHz FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile EU2	Military applications				
25070 - 25210 kHz MARITIME MOBILE	MARITIME MOBILE EU2	DSC calling Maritime applications				25208.5, 25209, 25209.5 kHz Appendix 17 channeling plan
25210 - 25550 kHz FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile EU2	Military applications				

RADIC STRONOMY S.149	RR foo	gion 1 Allocation otnotes relevant and frequency	to	European Common Allocation	Utilisation	EU-footnote	ERC Document	Standard	Note
25670 - 26100 kHz BROADCASTING	25550	- 25670	kHz						
S.149	RADIO A	ASTRONOMY		RADIO ASTRONOMY					
### ROADCASTING BROADCASTING Broadcasting	5.149			5.149					
Part	25670	- 26100	kHz						
MARITIME MOBILE 5.132 MARITIME MOBILE 5.132 EU2 EU2	BROADO	CASTING		BROADCASTING	Broadcasting				Article 12 Planning procedure Digital systems to be introduced
FIXED	26100	- 26175	kHz						
Maritime applications	MARITIN	ME MOBILE 5.13	32		DSC calling				26121, 26121.5, 16122 kHz
Maritime Safety Information (MSI) 26100.5 kHz				EU2					
FIXED CB ERC DEC (98)11 ETS 300 135 26.960-27.410 MHz					Maritime Safety Information (M	SI)			26100.5 kHz
ERC DEC (01)16	FIXED				СВ		` '		26.960-27.410 MHz
ISM applications 26.957-27.283 MHz	5.150			5.150 EU2	Inductive SRD			EN 300 330	26.957-27-283 MHz
Model control SRD									
ERC DEC (01)10									
Non Specific SRD applications ERC REC 70-03 EN 300 330 26.957-27.283 MHz ERC DEC (01)02 Railway applications ERC REC 70-03 EN 300 330 27.095 MHz Eurobalise								EN 300 220	26.995, 27.045, 27.095, 27.145, 27.195 MHz
								EN 300 330	26.957-27.283 MHz

RR Region 1 Allocations and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU-footnote	ERC Document	Document Standard	Note
27500 - 28000 kHz						
FIXED METEOROLOGICAL AIDS MOBILE	FIXED METEOROLOGICAL AIDS MOBILE EU2	Military applications				
28000 - 29700 kHz AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Amateur applications			EN 301 783	
		Amateur-satellite application				

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	European Common Allocation Utilisation EU footnote		ECC/ERC document	Standard	Note
29.7	- 30.005	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE			EU2	Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
80.005	- 30.01	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE SPACE OPE SPACE RES		ite identification)		Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
			EU2					
30.01	- 37.5	MHz						
0.01 FIXED MOBILE	- 37.5	MHz	MOBILE	Defence systems	EU1			The bands 30.3-30.5 MHz and 32.15-32.45 MHz are harmonised military bands
TIXED	- 37.5	MHz	MOBILE EU2 EU27	Model control	EU1	ERC REC 70-03 ERC DEC (01)11	EN 300 220	
IXED	- 37.5	MHz	EU2		EU1		EN 300 086	military bands
IXED	- 37.5	MHz	EU2	Model control	EU1		EN 300 086 EN 300 113	military bands
IXED	- 37.5	MHz	EU2	Model control	EU1		EN 300 086 EN 300 113 EN 300 219	military bands
IXED	- 37.5	MHz	EU2	Model control	EU1		EN 300 086 EN 300 113 EN 300 219 EN 300 296	military bands
TXED	- 37.5	MHz	EU2	Model control	EUI		EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341	military bands
TXED	- 37.5	MHz	EU2	Model control	EUI		EN 300 086 EN 300 113 EN 300 219 EN 300 296	military bands

footnotes	RR Region 1 Allocation and RR Cootnotes relevant to CEPT and Crequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document		Note
37.5	- 38.25	MHz						
FIXED			MOBILE except Aeronautical Mobile	Defence systems	EU1			
MOBILE			Radio Astronomy	PMR			EN 300 086	
Radio Astro	onomy						EN 300 113	
5.149			5.149 EU2				EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio astronomy appl				Continuum measurements
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
88.25	- 39.986	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE			EU2	Meteor-scatter application	ations	ERC REC 00-04		Within the band 39.0-39.2 MHz
			202	PMR			EN 300 086	
							EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
9.986	- 40.02	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE			Space Research	PMR			EN 300 086	
Space Rese	earch			1 11111			EN 300 000 EN 300 113	
			EU2				EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	llocation Utilisation		ECC/ERC document	Standard	Note
0.02	- 40.66	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE				PMR			EN 300 086	
			EU2				EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390 EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
0.66	- 40.7	MHz						
XED			MOBILE	Defence systems	EU1			
OBILE				ISM				
5.150			5.150 EU2	Model control		ERC DEC (01)12	EN 300 220	
				Non specific SRD		ERC REC 70-03	EN 300 220	
				Non specific SKD		ERC DEC (01)03	EN 300 220	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
0.7	- 40.98	MHz						
XED			MOBILE	Defence systems	EU1			
OBILE				PMR			EN 300 086	
			EU2				EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
40.98	- 41.015	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE			Space Research	PMR			EN 300 086	
Space Rese	earch			1 11110			EN 300 113	
			EU2				EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
41.015	- 44	MHz						
FIXED			MOBILE	Defence systems	EU1			Harmonised military band
MOBILE							EN 200 007	
			EU27	PMR			EN 300 086 EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	Narrow band audio systems including tour guide systems on a tuning range basis
44	- 46.4	MHz						
FIXED			MOBILE	Defence systems	EU1			Harmonised military band
MOBILE				PMR			EN 300 086	
5.162A			5.162A EU27	1 17113			EN 300 080 EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	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 relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
46.4	- 47	MHz						
FIXED			MOBILE except Aeronautical Mobile	Defence systems	EU1			Harmonised military band
MOBILE				PMR			EN 300 086	
5.162A			5.162A EU27				EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio microphones		ERC REC 70-03	EN 300 422	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.
47	- 48	MHz						
BROADCA	STING		LAND MOBILE	Defence systems	EU1			
5.162A			5.162A EU2	On-site paging			EN 300 224	Onsite paging in the band 47.0-47.25 MHz
5.163			5.163 EU3			TD 0 D D 0 D 0 0 0 0 0 0		1 0 0
5.164			5.164	PMR		ERC REC T/R 25-08		Single frequency applications
							EN 300 113	
							EN 300 219 EN 300 296	
							EN 300 296 EN 300 341	
							EN 300 341 EN 300 390	
							EN 300 370 EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services.
18	- 48.5	MHz						
BROADCA	STING		LAND MOBILE	Defence systems	EU1			
5.162A			5.162A EU2	PMR		ERC REC T/R 25-08		Single frequency applications
5.163			5.163 EU3	1 11111			EN 300 113	
5.164			5.164				EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services.

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
48.5	- 50	MHz						
BROADCA	ASTING		LAND MOBILE	Defence systems	EU1			
5.162A			5.162A EU2	Non specific SRD				Non specific SRD in 49.5-50 MHz
5.164			5.164 EU3	PMR		ERC REC T/R 25		Single frequency applications
				PWK		EKC KEC 1/K 23	EN 300 086 EN 300 113	Single frequency applications
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services
50	- 51	MHz						
BROADCA	ASTING		LAND MOBILE	Amateur applications			EN 301 783	
			Amateur	Defence systems	EU1			
5.162A			5.162A EU2	PMR		ERC REC T/R 25		Single frequency applications
5.164			5.164 EU3	TIVIK		ERC REC 1/R 25	EN 300 113	Single requercy apprearions
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services
51	- 52	MHz						
BROADCA			LAND MOBILE	Amateur applications			EN 301 783	
			Amateur	Defence systems	EU1			
5.162A			5.162A EU2	PMR		ERC REC T/R 25		Single frequency applications
5.164			5.164 EU3	1 IVIIX		LICE REC 1/R 23	EN 300 080	onigre requericy apprications
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		n and RR EPT and	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
52	- 54	MHz						
BROADC	CASTING		LAND MOBILE	Defence systems	EU1			
5.162A	Λ.		5.162A EU2	PMR		ERC REC T/R 25-08		single frequency applications
5.164			5.164 EU3				EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341 EN 300 390	
							EN 300 390 EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services
54	- 61	MHz						
BROADC	CASTING		LAND MOBILE	Defence systems	EU1			
5.162A	Λ.		5.162A EU2	PMR		ERC REC T/R 25-08		ML paired with 61-68 MHz
5.163			5.163 EU3	TIVIK		ERC REC 1/R 25-00	EN 300 113	WIE paned with 01-00 WHZ
5.164			5.164				EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services
61	- 68	MHz						
BROADC	CASTING		LAND MOBILE	Defence systems	EU1			
5.162A	Λ.		5.162A EU2	PMR		ERC REC T/R 25-08		FB paired with 54-61 MHz
5.164			5.164 EU3				EN 300 113	r
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Wind profiler radars				In the range 46-68 MHz. Geographical sharing with other services

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
8	- 70.45	MHz						
IXED			MOBILE	Defence systems	EU1			
OBILE ex	xcept Aeronautica	al Mobile		PMR		ERC REC T/R 25-08	EN 300 086	ML paired with 77.8-80.25 MHz
5.149			EU2				EN 300 113	
5.174			EU4				EN 300 219	
5.175							EN 300 296	
5.176							EN 300 341	
5.177							EN 300 390	
5.179							EN 300 471	
).45	- 74.8	MHz						
XED			MOBILE except Aeronautical Mobile	Defence systems	EU1			Harmonised military band 73.3-74.1 MHz
	xcept Aeronautica	al Mobile	Radio Astronomy	PMR		ERC REC T/R 25-08		ML paired with 80.25-84.6 MHz
5.149			5.149 EU2				EN 300 113	
5.174			EU4				EN 300 219	
5.175			EU27				EN 300 296	
5.176							EN 300 341	
5.177							EN 300 390	
5.179							EN 300 471	
				Radio astronomy appl	ications			Continuum measurements. In 73-74.6 MHz RA for solar wind monitoring
I.8	- 75.2	MHz						
ERONAU	TICAL RADION	NAVIGATION	AERONAUTICAL RADIONAVIGATION	ILS/marker beacons				
5.180			5.180					
5.2	- 77.7	MHz						
IXED			MOBILE	Defence systems	EU1			
OBILE ex	xcept Aeronautica	al Mobile		PMR		ERC REC T/R 25-08		ML paired with 85.0-87.5 MHz
5.175			EU2	1 WIIX		LRC RLC 1/R 25-00	EN 300 080 EN 300 113	THE pariod with 05.0-07.5 MHZ
5.179							EN 300 219	
5.184							EN 300 296	
3.164								
							EN 300 341	
5.187							EN 300 341 EN 300 390	

## State PMR ERC REC T/R 25-08 EN 300 086 FB paired with 68-74.8 MHz	footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
MOBIL Except Across without Mobile Fig. F	77.7	- 77.8	MHz						
Mobile Recept Aeronautical Mobile File	FIXED			MOBILE	Defence systems	EU1			
5.175 EU2 EN 300 219 5.184	MOBILE e	xcept Aeronauti	cal Mobile				FRC REC T/R 25-08	EN 300 086	Single frequency applications
5.179 5.184 5.187 6.187 77.8 - 84.6 MHz FIXED MOBILE except Acronautical Mobile 5.187 5.184 6.187 6.18	5.175			EU2	TWIK				Single frequency applications
5.187 77.8	5.179								
FIXED MOBILE EU2 PMR ERC REC Tir 25-08 EN 300 341 EN 300 340 EN 300 471 EU2 EU3 00 471	5.184								
FIXED MOBILE Company Mobile M	5.187								
FIXED								EN 300 390	
FIXED MOBILE except Aeronautical Mobile 5.175 EU2 5.179 EU27 5.184 5.187 84.6 - 85 MHz FIXED MOBILE except Aeronautical Mobile 5.175 EU2 BY ERC REC T/R 25-08 EN 300 086 EN 300 086 EN 300 086 EN 300 113 FIXED MOBILE except Aeronautical Mobile 5.187 FIXED MOBILE except Aeronautical Mobile 5.175 EU2 FIXED MOBILE except Aeronautical Mobile 5.175 EU2 MOBILE except Aeronautical Mobile 5.175 EU2 FIXED MOBILE except Aeronautical Mobile 5.175 EU2 FIXED MOBILE except Aeronautical Mobile 5.175 EU2 FIXED EXCEPT AERONAUTICAL EN 300 086 EN 300 086 EN 300 113 SINGle frequency applications 5.179 EU2 FIXED EXCEPT AERONAUTICAL EN 300 113 SINGle Frequency applications 5.184 5.184 5.187								EN 300 471	
FIXED MOBILE except Aeronautical Mobile EU2 PMR ERC REC T/R 25-08 EN 300 086 EN 300 113 EN 300 113 EN 300 219 EN 300 219 EN 300 219 EN 300 341 EN 300 471 EN 30	77.8	- 84.6	MHz						
## St.175				MOBILE	Defence systems	EU1			Harmonised military band 79.0-79.7 MHz
5.175 EU2 5.184 5.187 84.6 - 85 MHz FIXED MOBILE except Aeronautical Mobile 5.175 EU2 MOBILE except Aeronautical Mobile 5.175 EU2 MOBILE of the systems	MOBILE e	xcept Aeronauti	cal Mobile						FR paired with 68-74 8 MHz
5.179 EU27 5.184 5.187 84.6 - 85 MHz FIXED MOBILE except Aeronautical Mobile 5.175 EU2 MOBILE except Aeronautical Mobile 5.175 EU2 PMR ERC REC T/R 25-08 EN 300 086 EN 300 219 EN 300 296 EN 300 341	5.175			EU2	TIVIK				1 B panea with 60-74.6 MHZ
5.184 5.187 84.6 - 85 MHz FIXED MOBILE except Aeronautical Mobile 5.175 EU2 PMR ERC REC T/R 25-08 EN 300 296 EN 300 219 EN 300 21	5.179			EU27					
S.187	5.184								
## REAL PART FEN 300 471 ## PART FEN 300 086 Single frequency applications FEN 300 113 FEN 300 219 FEN 300 219 FEN 300 296 FEN 300 296 FEN 300 341	5.187								
## Record Acronautical Mobile Substitute FIXED								EN 300 390	
FIXED MOBILE except Aeronautical Mobile 5.175 EU2 MR ERC REC T/R 25-08 EN 300 086 EN 300 0113 EN 300 113 EN 300 219 5.184 5.187 EN 300 296 EN 300 296 EN 300 341								EN 300 471	
MOBILE except Aeronautical Mobile 5.175 PMR ERC REC T/R 25-08 EN 300 086 Single frequency applications 5.179 EU2 5.184 EN 300 219 5.187 EN 300 296 EN 300 341	84.6	- 85	MHz						
PMR ERC REC T/R 25-08 EN 300 086 Single frequency applications 5.175 EU2 5.179 5.184 5.187 EN 300 219 EN 300 219 EN 300 296 EN 300 341	FIXED			MOBILE					
5.175 EU2 EN 300 113 5.179 5.184 5.187 EU2 EN 300 219 EN 300 296 EN 300 341	MOBILE e	xcept Aeronauti	cal Mobile				FRC REC T/R 25-08		Single frequency applications
5.179 5.184 5.187 EN 300 219 EN 300 296 EN 300 341	5.175			EU2	TWIK				Single frequency applications
5.184 EN 300 296 5.187 EN 300 341	5.179								
5.187 EN 300 341	5.184								
EN 300 390	5.187								
								EN 300 390	
EN 300 471									

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
85	- 87.5	MHz						
FIXED			MOBILE	Defence systems	EU1			
MOBILE e	xcept Aeronautic	cal Mobile		PMR		ERC REC T/R 25-08	FN 300 086	FB paired with 75.2-77.7 MHz
5.175			EU2	TMIC		ERC REC 1/10 25 00	EN 300 113	13 paired with 73.2 77.7 MHZ
5.179							EN 300 219	
5.184							EN 300 296	
5.187							EN 300 341	
							EN 300 390	
							EN 300 471	
87.5	- 100	MHz						
BROADCA 5.190	BROADCASTING		BROADCASTING	FM Sound Broadcastii Agreement 1984	ng, Geneva			
100 BROADCA	- 108 ASTING	MHz	BROADCASTING	FM Sound Broadcastin	ng, Geneva			
5.194				Agreement 1984				
108	- 117.975	5 MHz						
AERONAU	JTICAL RADIO	NAVIGATION	AERONAUTICAL RADIONAVIGATION	ILS/Localiser				Within the band 108-112 MHz
				VOR				Within the band 108-117.975 MHz
	- 121.45 JTICAL MOBIL	MHz E (R)	AERONAUTICAL MOBILE (R) 5.200	Aeronautical mobile communications for sa regularity of flights	EU5 afety and			

	n 1 Allocation relevant to CE band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
121.45	- 121.55	MHz						
	TICAL MOBILI	E (R)	AERONAUTICAL MOBILE MOBILE-SATELLITE (E/S)	EPIRB			EN 300 152	Band only available for distress and safety
5.111 5.198 5.199			5.111 5.199 5.200					
5.200 5.201								
121.55	- 136	MHz						
5.198 5.200 5.201	TICAL MOBILI	E (R)	AERONAUTICAL MOBILE (R) 5.200 5.201	Aeronautical mobile communications for safet regularity of flights, airlin business and airport mobi communications	ne			
136 AERONAU 5.202 5.203	- 137 TICAL MOBILI	MHz E (R)	AERONAUTICAL MOBILE (R) 5.202	Aeronautical mobile communications for safet regularity of flights, airlin business and airport mobi communications	ne			
137	- 137.025							
MOBILE-S	ATELLITE (S/E	` '	METEOROLOGICAL-SATELLITE (S/E) MOBILE MODILE SATELLITE (S/E) 5 200 A 5 200	Low earth orbiting satellite Meteorological Satellite				
SPACE RE Fixed	Mobile except Aeronautical mobile (R) 5.204 5.206		MOBILE-SATELLITE (S/E) 5.208A 5.209 Space Operation (S/E) Space Research (S/E) 5.206 5.208	Mobile applications				Mobile restricted to Aeronautical Mobile (OR), including air sport

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
137.025 - 137.175 MHz						
METEOROLOGICAL-SATELLITE (S/E) SPACE OPERATION (S/E)	METEOROLOGICAL-SATELLITE (S/E) MOBILE	Low earth orbiting satelli		ERC DEC (99)06	EN 301 721	
SPACE RESEARCH (S/E)	Mobile-Satellite (S/E) 5.208A 5.209	Meteorological Satellite				
Fixed Mobile except Aeronautical mobile (R) Mobile-Satellite (S/E) 5.208A 5.209	Space Operation (S/E) Space Research (S/E)	Mobile applications				Mobile restricted to Aeronautical Mobile (OR), including air sport
5.204 5.206	5.206 5.208					
5.208						
137.175 - 137.825 MHz METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	Low earth orbiting satelli	tes EU6	ERC DEC (99)06	EN 301 721	
MOBILE-SATELLITE (S/E) 5.208A 5.209 SPACE OPERATION (S/E)	MOBILE MOBILE-SATELLITE (S/E) 5.208A 5.209	Meteorological Satellite				
SPACE RESEARCH (S/E) Fixed Mobile except Aeronautical mobile (R) 5.204 5.206 5.208	Space Operation (S/E) Space Research (S/E) 5.206 5.208	Mobile applications				Mobile restricted to Aeronautical Mobile (OR), including air sport
137.825 - 138 MHz	METEROPOLOGICAL GLEEN LITTLE (G.T.)	,	T.V.		DV 401 501	
METEOROLOGICAL-SATELLITE (S/E) SPACE OPERATION (S/E)	METEOROLOGICAL-SATELLITE (S/E) MOBILE	Low earth orbiting satelli		ERC DEC (99)06	EN 301 721	
SPACE OPERATION (S/E)	Mobile-Satellite (S/E) 5.208A 5.209	Meteorological Satellite				
Fixed Mobile except Aeronautical mobile (R) Mobile-Satellite (S/E) 5.208A 5.209 5.204 5.206 5.208	Space Operation (S/E) Space Research (S/E) 5.206 5.208	Mobile applications				Mobile restricted to Aeronautical Mobile (OR), including air sport

cotnote	ion 1 Allocation a s relevant to CEP cy band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
38	- 143.6	MHz						
ERONA	AUTICAL MOBILE	(OR)	AERONAUTICAL MOBILE (OR)	Air operation control	EU5			
			LAND MOBILE	Defence systems				Harmonised military band
5.210			Space Research (S/E) 5.211 EU2	Mobile applications				
5.211			EU27	Short Range Devices		ERC REC 70-03	EN 300 220	SRDs in the band 138.2-138.45 MHz
5.214								
13.6	- 143.65	MHz						
ERONA	AUTICAL MOBILE	(OR)	AERONAUTICAL MOBILE (OR)	Air operation control	EU5			
PACE R	ESEARCH (S/E)		LAND MOBILE SPACE RESEARCH (S/E)	Defence systems				Harmonised military band
5.211			5.211 EU2	Mobile applications				
5.214			EU27					
5.210 5.211 5.214	AUTICAL MOBILE	(OK)	AERONAUTICAL MOBILE (OR) LAND MOBILE 5.211 EU2 EU27	Defence systems Mobile applications				Harmonised military band
14	- 146	MHz						
MATEU	JR		AMATEUR	Amateur applications			EN 301 783	
MATEU	JR-SATELLITE		AMATEUR-SATELLITE	Amateur Satellite applic				
46	- 146.8	MHz	MOBILE	PMR	EU7	ERC REC T/R 25-0		Single frequency applications
40BILE	except Aeronautical	Mobile (R)					EN 300 113 EN 300 219	
							EN 300 219 EN 300 296	
							EN 300 341	
							EN 300 390 EN 300 471	
							1.11 300 4/1	

footnotes	R Region 1 Allocation and RR potnotes relevant to CEPT and requency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
146.8	- 148	MHz						
FIXED MOBILE e	xcept Aeronautic	al Mobile (R)	MOBILE	PMR	EU7	ERC REC T/R 25-08	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471	ML paired with 151.4-152.6 MHz
148	- 148.4	MHz						
	xcept Aeronautic ATELLITE (E/S		MOBILE MOBILE-SATELLITE (E/S) 5.209 5.218 5.219 5.221	Low earth orbiting satellit		ERC DEC (99)06 ERC REC T/R 25-08		ML paired with 152.6-153 MHz
48.4	- 149.9	MHz						
	xcept Aeronautic ATELLITE (E/S		MOBILE MOBILE-SATELLITE (E/S) 5.209 5.218 5.219 5.221	Low earth orbiting satellit		ERC DEC (99)06 ERC REC T/R 25-08		ML paired with 153.0-154.5 MHz
149.9	- 150.05	MHz						
	ATELLITE (E/S VIGATION-SAT) 5.209 5.224A TELLITE 5.224B	MOBILE MOBILE-SATELLITE (E/S) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.224B 5.220 5.222 5.223	Low earth orbiting satellit PMR		ERC REC T/R 25-08		Single frequency applications

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation EU foo		ECC/ERC document	Standard	Note
150.05	- 151.4	MHz						
	cept Aeronautical	Mobile	MOBILE except Aeronautical Mobile RADIO ASTRONOMY	PMR	EU7	ERC REC T/R 25-08	EN 300 086 EN 300 113	ML paired with 154.65-156.0 MHz
RADIO AST	RONOMY						EN 300 219	
5.149			5.149				EN 300 296 EN 300 341	
							EN 300 341 EN 300 390	
							EN 300 471	
				Radio astronomy app				Continuum measurement and pulsar/solar observations
151.4	- 153	MHz						
FIXED	100	2	MODILE	DIAD	E114	ED C DEC T/D 25 00	EN 200 006	FD : 1 31 140 140 4MH
	cept Aeronautical	Mobile	MOBILE except Aeronautical Mobile RADIO ASTRONOMY	PMR	EU7	ERC REC T/R 25-08	EN 300 086 EN 300 113	FB paired with 146.8-148.4 MHz
RADIO AST		Widdic	RADIO ASTRONOM I				EN 300 219	
5.149	1101101111		5.149				EN 300 219	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Radio astronomy app	olications			Continuum measurement and pulsar/solar observations
	454							
53	- 154	MHz						
FIXED MOBILE exc	cept Aeronautical	Mobile (R)	MOBILE except Aeronautical Mobile	PMR	EU7	ERC REC T/R 25-08	EN 300 086 EN 300 113	FB paired with 148.4-149.4 MHz
Meteorologic	cal Aids						EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390 EN 300 471	
							EN 300 4/1	
54	- 154.5	MHz						
FIXED			MOBILE except Aeronautical Mobile	PMR	EU7	ERC REC T/R 25-08	EN 300 086	FB paired with 149.4-149.9 MHz
	cept Aeronautical	Mobile (R)			Eo,		EN 300 113	p
		()					EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	

footnotes i	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	European Common Allocation Utilisation		ECC/ERC document	Standard	Note
154.5	- 154.65	MHz						
FIXED MOBILE ex	xcept Aeronautica	l Mobile (R)	MOBILE except Aeronautical Mobile	PMR	EU7	ERC REC T/R 25-08	EN 300 113 EN 300 219 EN 300 296	Single frequency applications
							EN 300 341 EN 300 390 EN 300 471	
154.65	- 156	MHz						
FIXED MOBILE ex	xcept Aeronautica	l Mobile (R)	MOBILE except Aeronautical Mobile	PMR	EU7	ERC REC T/R 25-08	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471	FB paired with 150.05-151.4 MHz
156	- 156.5125	5 MHz						
FIXED	xcept Aeronautica	l Mobile (R)	MOBILE except Aeronautical Mobile 5.226	RR Appendix 18	EU7 EU8		EN 300 162 EN 300 698 EN 301 178	Ship stations paired with 160.6-160.625. Single frequency in 156.375-156.500 MHz
							EN 301 025	
156 5125	5 - 156.537 5	5 MHz						
FIXED	xcept Aeronautica		MARITIME MOBILE 5.226	Digital selective calling for distress, safety	or		EN 301 025	The frequency 156.525 MHz
5.227			5.227					
156.5375	5 - 156.762	5 MHz						
	xcept Aeronautica	l Mobile (R)	MOBILE except Aeronautical Mobile	RR Appendix 18	EU7 EU8		EN 300 162 EN 300 698	Single frequency applications
5.226			5.226				EN 301 178 EN 301 025	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
156.7625 - 156.8375 MHz						
MARITIME MOBILE (distress and calling) 5.111 5.226	MARITIME MOBILE 5.111 5.226	International distress, calling frequency	safety and		EN 300 162	The frequency 156.8 MHz + single frequencies
FIXED MOBILE except Aeronautical Mobile 5.226	MOBILE except Aeronautical Mobile 5.226	RR Appendix 18	EU7 EU8	I I	EN 300 162 EN 300 698 EN 301 178 EN 301 025	Ship stations paired with 161.5-162.0 MHz and Single frequencies
157.45 - 160.6 MHz						
FIXED MOBILE except Aeronautical Mobile	MOBILE except Aeronautical Mobile	PMR	EU7	H H H	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471	ML paired with 162.05-165.2 MHz
160.6 - 160.975 MHz						
FIXED MOBILE except Aeronautical Mobile 5.226	MOBILE except Aeronautical Mobile 5.226	RR Appendix 18	EU7 EU8	I I	EN 300 162 EN 300 698 EN 301 178 EN 301 025	Cost stations, paired with 156.250-156.350 MHz
160.975 - 161.475 MHz						
FIXED MOBILE except Aeronautical Mobile	MOBILE except Aeronautical Mobile	PMR	EU7	H H H H	EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471	Single frequency applications

footnotes re	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
161.475	- 162.05	MHz						
FIXED			MOBILE except Aeronautical Mobile	RR Appendix 18	EU7		EN 300 162	Cost stations, paired with 156.9-157.4 MHz For DSC
	ept Aeronautical	Mobile			EU8		EN 301 025	
5.226			5.226				EN 300 698	
							EN 301 178	
				Shipborne Automatic Identification System		ERC DEC (99)17		161.975 MHz and 162.025 MHz
62.05	- 165.2	MHz						
FIXED			MOBILE except Aeronautical Mobile	PMR	EU7	ERC REC T/R 25-08	EN 300 086	FB paired with 157.45-160.6 MHz
MOBILE exc	ept Aeronautical	l Mobile					EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
165.2	- 165.225	MHz						
FIXED			MOBILE except Aeronautical Mobile	PMR		ERC REC T/R 25-08	EN 300 086	Single frequency applications
MOBILE exc	ept Aeronautical	l Mobile					EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
65.225	- 169.4	MHz						
FIXED			MOBILE except Aeronautical Mobile	PMR	EU7	ERC REC T/R 25-08	EN 300 086	ML paired with 169.825-174.0 MHz
	ept Aeronautical	l Mobile	MODIE CACCPI ACIONALICAI MODIIC	1 IVIIX	LO/		EN 300 080 EN 300 113	THE patient with 107.025-17T.0 MHZ
OBILL CAC	ept. Horomanical						EN 300 219	
							EN 300 219	
							EN 300 341	
							EN 300 390	

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
169.4	- 169.825	MHz						
FIXED			MOBILE except Aeronautical Mobile	ERMES	EU7	ERC DEC (94)02		169.4125-169.8125 MHz
MOBILE ex	cept Aeronautica	l Mobile		PMR	EU7	ERC REC T/R 25-08	EN 300 086	Single frequency applications
							EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
169.825	- 174	MHz						
FIXED	IXED		MOBILE except Aeronautical Mobile	Aids for handicapped		ERC REC 70-03	EN 300 422	Within 173.965-174.015 MHz
MOBILE ex	OBILE except Aeronautical Mobile			PMR	EU7	ERC REC T/R 25-08	EN 300 086	FB paired with 165.225-169.4 MHz
							EN 300 113	
							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
174	- 216	MHz						
BROADCA:	STING		BROADCASTING	Aids for handicapped		ERC REC 70-03	EN 300 422	Within 173.965-174.015 MHz
5 225			LAND MOBILE	Radio microphones		ERC REC 70-03	EN 300 422	On a tuning range basis
5.235			5.235 EU9	T-DAB Wiesbaden special Arrangement, 1995 revised Maarstricht 2002	l d			
				TV Stockholm Agreement		ERC REC T/R 25-06		The band 174-230 MHz be reviewed for possible future applications after the introduction of T-DAB and DVB-T
216 BROADCAS	- 223 STING	MHz	BROADCASTING	T-DAB Wiesbaden specia	ı			Existing TV transmitters according to stockholm Agreement 1961.
5.235			5.235	Arrangement, 1995 revised Maarstricht 2002				The band 174-230 MHz be reviewed for possible future applications after the introduction of T-DAB and DVB-T

footnote	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band 223 - 225 MHz		European Common Allocation Utilisation			EU footnote	Standard	Note
223	- 225	MHz						
BROADC Fixed Mobile 5.246	CASTING		BROADCASTING	T-DAB Wiesbaden spe Arrangement, 1995 rev Maarstricht 2002				The band 174-230 MHz be reviewed for possible future applications after the introduction of T-DAB and DVB-T
225	- 230	MHz						
BROADC Fixed Mobile 5.246	CASTING		BROADCASTING Land Mobile EU10	T-DAB Wiesbaden spe Arrangement, 1995 rev Maarstricht 2002				This band is within the military tuning range 225-400 MHz. T-DAB sharing with defence on national basis. The band 174-230 MHz be reviewed for possible future applications after the introduction of T-DAB and DVB-T
230	- 235	MHz						
FIXED MOBILE			MOBILE	Defence systems				Harmonised military band
MOBILE			EU10 EU27	T-DAB Wiesbaden spe Arrangement, 1995 rev Maarstricht 2002	ised			T-DAB sharing with defence on a national basis
235	- 240	MHz						
FIXED			MOBILE	Defence systems				Harmonised military band.
MOBILE 5.254			5.254 EU10 EU27	T-DAB Wiesbaden spe Arrangement, 1995 rev Maarstricht 2002	cial			T-DAB sharing with defence on a national basis
240	- 242.95	MHz						
FIXED MOBILE			MOBILE	Defence systems				Harmonised military band. Air traffic control.
5.254			5.254 EU10 EU27					

RR Region footnotes i frequency	n 1 Allocation a relevant to CEP band	CEPT and European Common Allocation Utilisation EU footnote document Stan	Standard	Note			
242.95	- 243.055	MHz					
FIXED MOBILE			AERONAUTICAL MOBILE MOBILE-SATELLITE (E/S)	EPIRB	 	EN 300 152	Band only available for distress and safety purposes
5.111			5.111				
5.199			5.199				
5.254			5.254				
5.256			5.256				
243.055	- 267	MHz					
FIXED MOBILE ex			MOBILE	Defence systems			Harmonised military band. Air traffic control.
5.254			5.254 EU10		 		
			EU27				
267	- 272	MHz					
FIXED			MOBILE	Defence systems			Harmonised military band.
MOBILE							Air traffic control
Space Opera	ation (S/E)						
5.254			5.254 EU10				
5.257			5.257 EU27				
272	- 273	MHz					
FIXED MOBILE SPACE OPI	ERATION (S/E)		MOBILE	Defence systems	 		Harmonised military band. Air traffic control
5.254	LIGITION (5/E)		5.254 EU10				
5.254			EU27				
			202,				

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		and RR EPT and	European Common Allocation	Utilisation 1	EU footnote	ECC/ERC document	Standard	Note
273	- 312	MHz						
FIXED MOBILE			MOBILE	Defence systems				Harmonised military band Air traffic control
5.254			5.254 EU10 EU27					
312	- 315	MHz						
FIXED MOBILE			MOBILE	Defence systems				Harmonised military band. Air traffic control.
Mobile-Sat	tellite (E/S) 5.254	4 5.255						
			5.254 EU10 5.255 EU27					
			3.233 E027					
315	- 322	MHz						
FIXED MOBILE			MOBILE	Defence systems				Harmonised military band Air traffic control.
5.254			5.254 EU10 EU27					
322	- 328.65	MHz						
FIXED			MOBILE	Defence systems				Harmonised military band
MOBILE RADIO AS	STRONOMY		RADIO ASTRONOMY	Radio astronomy application				Continuum measurements, also VLBI
5.149	TRONOWIT		5.149 EU10 EU27					
328.65	- 335.4	MHz						
AERONAU 5.258	UTICAL RADIO	NAVIGATION	AERONAUTICAL RADIONAVIGATION 5.258 EU2	ILS/Glide path				

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			Europed	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
335.4	- 380	MHz							
FIXED MOBILE			MOBILE		Defence systems	EU7			Harmonised military band Air traffic control
5.254			5.254	EU10					
				EU27					
380	- 385	MHz							
FIXED			MOBILE		Defence systems				Harmonised military band
MOBILE 5.254			5.254	EU2	Emergency AGA		ERC DEC (01)20	EN 300 113 EN 300 390	384.8-385/394.8-395 MHz for AGA emergency
				EU10 EU27	Emergency DMO		ERC DEC (01)19	EN 300 113 EN 300 390	380-380.15/390-390.15 MHz for DMO emergency
					Emergency services		ERC DEC (96)01	EN 303 035	ML paired with 390.0-395.0 MHz. Emergency services sharing with defence applications.
							ERC REC T/R 02-02		
385	- 387	MHz							
FIXED			MOBILE		Defence systems				Harmonised military band
MOBILE					Digital land mobile PM	ЛR/PAMR	ERC DEC (96)04	EN 303 035	ML Paired with 395-397 MHz
5.254			5.254	EU2			ERC REC T/R 02-02		
				EU10 EU27					
207	- 390	MHz							
387 FIXED	- 390	IVITZ	MODILE		Defencet				Homonicad military band
	tellite (S/E) 5.208	RA.	MOBILE						
5.254	(D/L) J.200	·· •	5.254	EU2	Digital land mobile PM	/IR/PAMR	ERC DEC (96)04	EN 303 035	ML paired with 397-399.9 MHz
5.255			5.255	EU10			ERC REC T/R 02-02	; 	
				EU27					

footnotes r	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		Europe	an Common Allocation	CANON Litilisation Elitoptnota		ECC/ERC document	Standard	Note
390	- 395	MHz							
FIXED MOBILE			MOBILE		Defence systems				Harmonised military band Emergency services sharing with defence applications.
5.254			5.254	EU2 EU10	Emergency AGA		ERC DEC (01)20	EN 300 113 EN 300 390	384.8-385/394.8-395 MHz for AGA emergency
				EU27	Emergency DMO		ERC DEC (01)19	EN 300 113 EN 300 390	380-380.15/390-390.15 MHz for DMO emergency
					Emergency services		ERC DEC (96)01	EN 303 035	FB paired with 380-385 MHz. Emergency services sharing with defence applications.
							ERC REC T/R 02-02	2	
395	- 399.9	MHz							
FIXED			MOBILE		Defence systems				Harmonised military band
MOBILE 5.254			5.254	EU2 EU10	Digital land mobile PM	R/PAMR	ERC DEC (96)04 ERC REC T/R 02-02	EN 303 035	FB paired with 385-389.9 MHz
				EU27					

MOBILE-SATELLITE (E/S) 5.209 5.224A MOBILE-SATELLITE (E/S) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.222 RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.224B 5.260 5.220 5.220

400.05 **-** 400.15 MHz

STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) SIGNAL-SATELLITE (400.1 MHz) 5.261

STANDARD FREQUENCY AND TIME

5.262

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
400.15	- 401	MHz						
	LOGICAL AI		METEOROLOGICAL AIDS	Low earth orbiting sa		ERC DEC (99)06	EN 301 721	
MOBILE-S	SATELLITE (S SEARCH (S/E	ATELLITE (S/E) 5/E) 5.208A 5.209 E) 5.263	METEOROLOGICAL-SATELLITE (E/S) MOBILE-SATELLITE (S/E) 5.208A 5.209 SPACE OPERATION (S/E) SPACE RESEARCH (S/E) 5.263 5.264	Meteorological radio	sondes			
401	- 402	MHz						
		-SATELLITE (E/S)	* *	Meteorological radio				
	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (E/S)		METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (E/S)	Meteorological satelli collection platform				
SPACE OP	ERATION (S/	E)						
	ept Aeronautic	al Mobile	EU2					
402	- 403	MHz						
	(PLORATION DLOGICAL AI	I-SATELLITE (E/S) DS	EARTH EXPLORATION-SATELLITE (E/S) METEOROLOGICAL AIDS	Medical implants SRI	D	ERC DEC (01)17 ERC REC 70-03	EN 300 220	Medical implants within 402-405 MHz
METEORO		ATELLITE (E/S)	METEOROLOGICAL-SATELLITE (E/S)	Meteorological radio				
Fixed Mobile exce	ept Aeronautic	al Mobile	EU2	Meteorological satelli collection platform	ites, data			
403 METEORO	- 406 DLOGICAL AI	MHz ds	METEOROLOGICAL AIDS	Medical implants SRI	D	ERC DEC (01)17	EN 300 220	Medical implants within 402-405 MHz
Fixed Mobile exce	ept Aeronautic	al Mobile				ERC REC 70-03		
	- r		EU2	Meteorological radio	sondes			

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	NMON Allocation Litilization Elifontrota		ECC/ERC document	Standard	Note	
6	- 406.1	MHz							
OBILE-S	SATELLITE (E/S))	MOBILE-SATELLITE (E/S)	EPIRB			EN 300 066	Band only available for distress and safety purposes	
5.266			5.266						
5.267			5.267						
6.1	- 410	MHz							
XED			LAND MOBILE	Anagolue and digital la	nd mobile	ERC REC T/R 25-08	EN 300 086	Single frequency applications	
	except Aeronautica	al Mobile	RADIO ASTRONOMY	PMR/PAMR					
	STRONOMY						EN 300 113		
5.149			5.149				EN 300 219		
							EN 300 296		
							EN 300 341 EN 300 390		
							EN 300 390 EN 300 471		
				Radio astronomy applic				Continuum measurement and pulsar observation	
0	- 420	MHz							
XED OBILE e	except Aeronautica	al Mobile	MOBILE except Aeronautical Mobile	Analogue and digital lan	nd mobile EU7	ERC REC T/R 25-08	EN 300 086	ML paired with 420-430 MHz	
ACE RE	ESEARCH (S/S) 5	.268					EN 300 113		
							EN 300 219		
							EN 300 296		
							EN 300 341		
							EN 300 390		
							EN 300 471		
				Digital land mobile PM	R/PAMR	ERC DEC (96)04	EN 303 035	ML paired with 420-430 MHz	
						ERC REC T/R 25-08			
						ECC DEC (02)03			

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		and RR PT and	European Common Allocation	European Common Allocation Utilisation EU footnote		ECC/ERC document	Standard	Note
420	- 430	MHz						
FIXED MOBILE ex Radiolocati	xcept Aeronautica	al Mobile	MOBILE except Aeronautical Mobile Radiolocation	Analogue and digita		ERC REC T/R 25-08		FB paired with 410-420 MHz
5.269				PMR/PAMR			EN 300 113	
5.271							EN 300 113 EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Digital land mobile	PMR/PAMR	ERC DEC (96)04 ERC REC T/R 25-08	EN 303 035	FB paired with 410-420 MHz
						ECC DEC (02)03		
430	- 433.05	MHz						
AMATEUR	}		AMATEUR	Amateur application	S		EN 301 783	
RADIOLO	CATION		RADIOLOCATION					
5.271			5.277 EU2					
5.272			EU12					
5.273								
5.274								
5.275								
5.276								
5.277								
433.05	- 434.79	MHz						
AMATEUR	₹		AMATEUR	Amateur application	S		EN 301 783	
RADIOLO	CATION		RADIOLOCATION	ISM				
5.138			Land Mobile 5.138 EU2	Non specific SRD		ERC REC 70-03	EN 300 220	
5.271			5.277 EU12	-				
5.272			5.280					
5.276								
5.277								
5.280								
5.281								

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		and RR EPT and	European Common Allocation Utilisation EU footnote			ECC/ERC document	Standard	Note
34.79	- 438	MHz						
MATEUR			AMATEUR	Amateur applications			EN 301 783	Amateur Satellite Service restricted to 435-438 MHz
RADIOLOC	CATION		AMATEUR-SATELLITE	Amateur Satellite application	ons		EN 301 783	
5.271			RADIOLOCATION 5.277 EU2	•••••				
5.276			EU12					
5.277								
5.282								
38	- 440	MHz						
MATEUR			AMATEUR	Amateur applications			EN 301 783	
DIOLOC	CATION		RADIOLOCATION					
5.271			5.277 EU2					
5.273			EU12					
5.274								
5.275 5.276								
5.277								
5.283								
40	- 450	MHz						
XED			MOBILE except Aeronautical Mobile	Analogue and digital land i	mobile EU7	ERC REC T/R 25-08	B EN 300 086	Single frequency operation
OBILE ex	cept Aeronauti	cal Mobile	Radiolocation	PMR/PAMR				
diolocatio	on						EN 300 113	
5.269			EU31				EN 300 219 EN 300 296	
5.271							EN 300 290 EN 300 341	
5.286							EN 300 390	
							EN 300 471	
				Digital Land Mobile DMO		ERC DEC (01)21		Within the band 445.2-445.3 MHz
				On-site paging			EN 300 224	Call-out & answer-back
				PMR 446		ERC DEC (98)25	EN 300 296	In the band 446-446.1 MHz

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
450	- 455	MHz						
FIXED			MOBILE					
MOBILE			EU31	Analogue and digital land PMR/PAMR	mobile EU7 EU34	ERC REC T/R 25-08	EN 300 086	ML paired with 460-465 MHz
5.209							EN 300 113	
5.271							EN 300 219	
5.286							EN 300 296	
5.286A							EN 300 341	
5.286B							EN 300 390	
							EN 300 471	
				Digital land mobile PMR/	PAMR	ERC DEC (96)04 ERC REC T/R 25-08	EN 303 035	ML paired with 460-465 MHz
						ECC DEC (02)03		
				On-site paging			EN 300 224	Call-out & answer-back
155	- 456	MHz						
FIXED	- 456	MHz	MOBILE	Analogue and digital land PMR/PAMR		ERC REC T/R 25-08		ML paired with 465-466 MHz
FIXED	- 456	MHz	MOBILE EU31	Analogue and digital land PMR/PAMR	mobile EU7		EN 300 086 EN 300 113	
FIXED	- 456	MHz		Analogue and digital land PMR/PAMR	mobile EU7		EN 300 086 EN 300 113 EN 300 219	
FIXED MOBILE	- 456	MHz		Analogue and digital land PMR/PAMR	mobile EU7		EN 300 086 EN 300 113 EN 300 219 EN 300 296	
FIXED MOBILE 5.209	- 456	MHz		Analogue and digital land PMR/PAMR	mobile EU7		EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341	
FIXED MOBILE 5.209 5.271	- 456	MHz		Analogue and digital land PMR/PAMR	mobile EU7		EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390	
FIXED MOBILE 5.209 5.271 5.286A	- 456	MHz		Analogue and digital land PMR/PAMR Digital land mobile PMR/	mobile EU7 EU34	ERC REC T/R 25-08 ERC DEC (96)04	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471 EN 303 035	
FIXED MOBILE 5.209 5.271 5.286A	- 456	MHz		PMR/PAMR Digital land mobile PMR/	mobile EU7 EU34	ERC REC T/R 25-08 ERC DEC (96)04 ERC REC T/R 25-08 ECC DEC (02)03	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471 EN 303 035	ML paired with 465-466 MHz ML paired with 465-466 MHz
5.271 5.286A	- 456	MHz		PMR/PAMR	mobile EU7 EU34 PAMR	ERC REC T/R 25-08 ERC DEC (96)04 ERC REC T/R 25-08 ECC DEC (02)03	EN 300 086 EN 300 113 EN 300 219 EN 300 296 EN 300 341 EN 300 390 EN 300 471 EN 303 035	ML paired with 465-466 MHz ML paired with 465-466 MHz

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		and RR PT and	European Common Allocation	Utilisation	Utilisation EU footnote		Standard	Note
456	- 459	MHz						
FIXED MOBILE			MOBILE	Analogue and digital la PMR/PAMR	and mobile EU7 EU34	ERC REC T/R 25-08	EN 300 086	ML paired with 466-469 MHz. ERC REC T/R 22-01 to be withdrawn 2005 after implementation of GSM-R
5.271			5.287 EU31			ERC REC T/R 22-01	EN 300 113	
5.287							EN 300 219	
							EN 300 296	
							EN 300 341	
							EN 300 390	
							EN 300 471	
				Digital land mobile PN	1R/PAMR	ERC DEC (96)04 ERC REC T/R 25-08	EN 303 035	ML paried with 466-469 MHz
						ECC DEC (02)03		
				Existing public cellular	r networks EU7			
				Maritime on board communications		ERC REC T/R 32-02	EN 300 720	Within the band 457.525-457.575 MHz
				On-site paging			EN 300 224	Call-out & answer-back
459	- 460	MHz						
FIXED MOBILE			MOBILE	Analogue and digital la PMR/PAMR	and mobile EU7	ERC REC T/R 25-08	EN 300 086	ML paired with 469-470 MHz
5.209			EU31				EN 300 113	
5.271							EN 300 219	
5.286A							EN 300 296	
5.286B							EN 300 341	
							EN 300 390 EN 300 471	
				Digital land mobile PM	1R/PAMR	ERC DEC (96)04 ERC REC T/R 25-08	EN 303 035	ML paired with 469-470 MHz
						ECC DEC (02)03		
				Existing public cellular	r networks			

footnotes 1	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation FU footnote		ECC/ERC document	Standard	Note
460	- 470	MHz						
FIXED MOBILE			MOBILE	Analogue and digital land mobile PMR/PAMR	EU7 EU34	ERC REC T/R 25-08	EN 300 086	FB paired with 450-460 MHz ERC REC T/R 22-01 to be withdrawn 2005 after implementation of GSM-R
5.287 5.289 5.290	cal-Satellite (S/	E)	5.287 EU31 5.289			ERC REC T/R 22-01	EN 300 219 EN 300 296	
							EN 300 341 EN 300 390 EN 300 471	
				Digital land mobile PMR/PAMR		ERC DEC (96)04 ERC REC T/R 25-08 ECC DEC (02)03	EN 303 035	FB paired with 450-460 MHz
				Existing public cellular networks				
				Maritime on board communications		ERC REC T/R 32-02		Within the band 467.525-467.575 MHz
				On-site paging			EN 300 224	Call-out & answer-back
470 BROADCA	- 608	MHz	BROADCASTING	Radio microphones		ERC REC 70-03	EN 300 422	On a tuning range basis
5.149			Mobile 5.291A	SAP/SAB				Mobile applications restricted to SAB/SAP including radio microphones
5.291A 5.296 5.302			5.296	Stockholm Agreement 1961 complemented by the Chester 1997 Agreement	EU9			The band 470-862 be reviewed for possible future applications after the introduction of DVB-T
5.306								
608	- 614	MHz	PRO LINGUAGRA CO					
BROADCA	STING		BROADCASTING Mobile					Continuum measurements and VLBI
			Radio Astronomy	Radio microphones		ERC REC 70-03	EN 300 422	
5.149			5.149	SAP/SAB				
5.291A 5.296 5.306			5.296 5.306	Stockholm Agreement 1961 complemented by the Chester 1997 Agreement	EU9			The band 470-862 be reviewed for possible future applications after the introduction of DVB-T

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation EU	footnote	ECC/ERC document	Standard	Note
614	- 790	MHz						
BROADC	ASTING		BROADCASTING	Radio microphones		ERC REC 70-03	EN 300 422	On a tuning range basis
			Mobile	SAP/SAB				Mobile applications restricted to SAB including radiomicrophones
5.149			5.296 EU13	Stockholm Agreement 1961	EU9			The band 470-862 be reviewed for possible future applications
5.291A 5.296			5.312	complemented by the Chester	LO			after the introduction of DVB-T
5.311				1997 Agreement				
5.312								
790	- 838	MHz						
BROADC	ASTING		BROADCASTING	Defence systems				Mobile applications restricted to tactical links and SAB/SAP including radio microphones
FIXED 5.312			Mobile 5.316 EU2	D 1:				
5.314			EU13	Radio microphones		ERC REC 70-03	EN 300 422	On a tuning range basis
5.315			EUIS	SAP/SAB				Mobile applications restricted to tactical links and SAB/SAP including radio microphones
5.316 5.319				Stockholm Agreement 1961 complemented by the Chester 1997 Agreement	EU9			The band 470-862 be reviewed for possible future applications after the introduction of DVB-T
838	- 862	MHz						
BROADC	ASTING		BROADCASTING	Defence systems				Mobile applications restricted to tactical links and SAB/SAP
FIXED			MOBILE					including radio microphones
5.312			5.316 EU2 EU13	Radio microphones		ERC REC 70-03	EN 300 422	On a tuning range basis
5.314 5.316			EUI3	SAP/SAB				Mobile applications restricted to tactical links and SAB/SAP including radio microphones
5.319 5.321				Stockholm Agreement 1961 complemented by the Chester 1997 Agreement	EU9			The band 470-862 be reviewed for possible future applications after the introduction of DVB-T

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation Utilisation	Utilisation	EU footnote	ECC/ERC document	Standard	Note	
862	- 870	MHz							
	ASTING 5.322		MOBILE		Cordless Telephones	S	ECC DEC (01)02	EN 301 797	To be phased out in accordance with ECC Decisions (01)02
FIXED MOBILE	except aeronautica	l mobile 5 317A			Defence systems				
5.319 5.323	except aeronautica	THOOLE 5.517A	5.323	EU2 EU13	Narrow band analogu devices		ERC REC 70-03	EN 300 220	864.8-865 MHz
					Radio microphones		ERC REC 70-03	EN 300 422 EN 301 357	Within the band 863-865 MHz
					Social Alarms		ERC DEC (97)06 ERC REC 70-03	EN 300 220	Within the band 869.2-869.25 MHz
					SRD in 868-870 MH		ERC REC 70-03	EN 300 220	Strategic Plan for the use of SRD within the band 862-870 MHz adopted
							ERC DEC (01)04		
					Wireless Audio		ERC DEC (01)18 ERC REC 70-03	EN 301 357	Within the band 863-865 MHz
870	- 876	MHz							
FIXED	ASTING 5.322	17.50.54	MOBILE		Defence systems				The band 870-876 / 915-921 MHz is identified as a preferred band for Tactical Radio Relays (TRR), in particular for cross-border operations. In countries where this band is or will be in civil use
5.319 5.323	except aeronautica	I mobile 5.31/A	5.323	EU2 EU13					according to ERC / ECC Decisions (e.g. digital PAMR), shared use of the band 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
					Digital land mobile P	MR/PAMR	ERC DEC (96)04 ERC REC T/R 25-08	EN 303 035	ML paired with 915-921 MHz
876	- 880	MHz							
BROADC	ASTING 5.322		MOBILE		Defence systems				Sharing on a national basis
FIXED MOBIL E	except aeronautica	l mobile 5 3174			Digital land mobile				
5.319	except actonautica	1 1110011C 3.31/A	5.323	EU2	UIC Railway systems	3	ERC REC T/R 25-09	EN 301 502	ML paired with 921-925 MHz
5.323				EU13			ECC DEC (02)05	EN 301 511	

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	tion EU footnote		C stand	dard	Note
880	- 890	MHz								
BROADCA	ASTING 5.322		MOBILE		Defence systems					Sharing on a national basis
FIXED					EGSM	EU:	32 ERC DEC (9	97)02 EN 30	1 502	ML paried with 925-935 MHz
	except aeronautica	il mobile 5.317A		TV.				EN 30	1 511	
5.319 5.323			5.317A	EU2 EU13						
5.323			5.323	EU13 EU29						
				102)						
390	- 915	MHz								
	ASTING 5.322		MOBILE		GSM	EU	ERC DEC (9	*		ML paired with 935-960 MHz
FIXED		1 17 50151	Radiolocat	ion				EN 30	1 511	
Radiolocati	except aeronautica	il mobile 5.31/A								
5.323	1011		5.317A	EU13						
			5.323	EU14						
				EU29						
FIXED	- 921 ASTING 5.322 except aeronautication	MHz al mobile 5.317A	MOBILE Radiolocat 5.323	EU2 EU13	Defence systems			6604 FN 20	2.025	The band 870-876 / 915-921 MHz is identified as a preferred band for Tactical Radio Relays (TRR), in particular for cross-border operations. In countries where this band is or will be in civil use according to ERC / ECC Decisions (e.g. digital PAMR), shared use of the band 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
				EU14	Digital land mobile		ERC DEC (9 ERC REC T		3 035	FB paired with 870-876 MHz
921	- 925	MHz								
	ASTING 5.322		MOBILE		Defence systems					Sharing on a national basis
FIXED	except aeronautica	ıl mobile 5 317A	Radiolocat	ion	Digital land mobile					FB paired with 876-880 MHz
Radiolocati	-	ii moone 5.51/A	5.323	EU2	UIC Railway system			/R 25-09 EN 30	1 502	FB paired with 876-880 MHz
5.5 2 5			0.020	EU13 EU14						

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RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		and RR PT and	European Common Allocation	Utilisation	EU footnote	note ECC/ERC document	Standard	Note
925	- 935	MHz						
BROADC	ASTING 5.322		MOBILE	Defence systems	EU30			Sharing on a national basis
FIXED			Radiolocation	EGSM	EU30	ERC DEC (97)02	EN 301 502	FB paired with 880-890 MHz
MOBILE 6	except aeronautica	il mobile 5.317A			EU32		EN 301 511	
5.323	11011		5.317A EU2					
			5.323 EU13					
			EU14					
			EU29					
935	- 942	MHz						
	ASTING 5.322		MOBILE	GSM	EU32	ERC DEC (94)01	EN 301 502	FB paired with 890-897 MHz
FIXED	A311NG 3.322		Radiolocation	OSIVI	EU32	ERC DEC (94)01	EN 301 502 EN 301 511	FB patied with 890-897 MHZ
	except aeronautica	al mobile 5.317A						
Radiolocat	tion							
5.323			5.317A EU13					
			5.323 EU14					
			EU29					
942	- 960	MHz						
FIXED	ASTING 5.322	1 17 52174	MOBILE	GSM	EU32	ERC DEC (94)01	EN 301 502 EN 301 511	FB paired with 897-915 MHz
5.323	except aeronautica	il mobile 5.31/A	5.317A EU13					
3.323			5.323 EU29					
			3.323 E029					
960	- 1215	MHz						
AERONAI	UTICAL RADION	NAVIGATION	AERONAUTICAL RADIONAVIGATION	Flight Safety, Navigati	on and			
5.328			5.328	Information Distribution (DME,TACAN,SSR,M				
5.328A			5.328A		,			
				GNSS				1164-1215 MHz

	on 1 Allocation s relevant to CE y band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1215	- 1240	MHz						
EARTH E	XPLORATION-S	ATELLITE	EARTH EXPLORATION-SATELLITE (active)	GNSS				
RADIOLO RADIONA (S/S) 5.32	AVIGATION-SAT		RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) 5.332	Radar and Navigatio Active Sensors				
1240	- 1260	MHz						
(active) RADIOLO RADIONA (S/S) 5.32	AVIGATION-SAT	TELLITE (S/E)	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A SPACE RESEARCH (active) Amateur 5.332	Amateur application GNSS Radar and Navigatio Active Sensors			EN 301 783	
1260	- 1270	MHz						
EARTH E	XPLORATION-S	ATELLITE	EARTH EXPLORATION-SATELLITE (active)	Amateur application	s		EN 301 783	
RADIOLO			RADIOLOCATION				EN 301 783	
(S/S) 5.32	AVIGATION-SAT 9 5.329A ESEARCH (active	. ,	RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A	Radar and Navigatio Active Sensors	n systems and			
Amateur 5.282		•	SPACE RESEARCH (active) Amateur Amateur-Satellite 5.282					
5.331			5.335A					
5.335A								

	1 Allocation elevant to CE band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1270	- 1300	MHz						
	PLORATION-S	SATELLITE	EARTH EXPLORATION-SATELLITE	Amateur applications			EN 301 783	
(active)	ATION		(active)	Radar and Navigation				
RADIONAV		TELLITE (S/E)	RADIOLOCATION RADIONAVIGATION 5.331	Active Sensors	•			
(S/S) 5.329 5		TELLITE (S/E)	RADIONAVIGATION 5.551 RADIONAVIGATION-SATELLITE (S/E)	Wind profiler radars				Within the band 1270-1295 MHz
SPACE RES	EARCH (activ	e)	(S/S) 5.329 S.329A					
Amateur			SPACE RESEARCH (active)					
			Amateur					
5.282			5.335A					
5.331								
5.335A								
1300 AERONAUT S5.337	- 1350 ΓICAL RADIO	MHz NAVIGATION	AERONAUTICAL RADIONAVIGATION S5.337	Radar and Navigation	•			
RADIOLOC	ATION		RADIOLOCATION	Radio astronomy app	lications			Spectral line observations 1330-1400 MHz
		TELLITE (E/S)	RADIONAVIGATION-SATELLITE (E/S)					
5.149			5.149					
5.337A			5.337A					
1350	- 1400	MHz						
FIXED			FIXED	Defence systems	EU15A			
MOBILE			MOBILE	Low capacity fixed lin		ERC REC T/R 13-		
RADIOLOC	ATION		RADIOLOCATION					G . 1V 1
5.149			5.149 EU2	Radio astronomy app				Spectral line observations in 1330-1400 MHz
5.338			5.339 EU15					

	on 1 Allocation of s relevant to CE y band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note	
1400	- 1427	MHz							
(passive) RADIO A	EXPLORATION-S. STRONOMY ESEARCH (passiv		EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 EU15 5.341	Passive applications					
1427	- 1429	MHz							
FIXED			FIXED	Defence systems	EU15A				
	except Aeronautica PERATION (E/S)	al Mobile	MOBILE except Aeronautical Mobile SPACE OPERATION (E/S)	Low capacity fixed links		ERC REC T/R 13-01	EN 301 751		
5.341	TERATION (E/3)		5.341 EU2 EU15						
1429	- 1452	MHz							
FIXED			FIXED	Defence systems	EU15A				
MOBILE 5.341	except Aeronautica	al Mobile	MOBILE except Aeronautical Mobile 5.341 EU2	Low capacity fixed links		ERC REC T/R 13-01	EN 301 751		
5.342			5.341 EU2 EU15						
1452	- 1492	MHz							
	ASTING 5.345 5.3		BROADCASTING 5.345	S-DAB				1479.5 - 1492 MHz	
FIXED	ASTING-SATELI except Aeronautica		7 BROADCASTING-SATELLITE 5.345 Fixed Mobile except Aeronautical Mobile 5.341 EU15	T-DAB Maastricht 2002 sj arrangement				1452-1479.5 MHz	

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1492	- 1517	MHz						
FIXED			FIXED	Defence systems	EU15A			
	except Aeronaution	cal Mobile	MOBILE except Aeronautical Mobile	Low capacity fixed links	3	ERC REC T/R 13-	-01 EN 301 751	
5.341 5.342			5.341 EU2 EU15					
1517	- 1525	MHz						
FIXED			FIXED	Defence systems	EU15A			
	except Aeronaution	cal Mobile	MOBILE except Aeronautical Mobile	Unidirectional fixed link			EN 301 751	
5.341 5.342			5.341 EU2 EU15					
1525	- 1530	MHz						
FIXED			FIXED	Mobile satellite applicat	ions		EN 301 426	
	SATELLITE (S/I		MOBILE-SATELLITE (S/E) 5.351A				EN 301 444	
	PERATION (S/E loration-Satellite	*	SPACE OPERATION (S/E)				EN 301 681	
-	cept Aeronautical							
5.341			5.341 EU15	Unidirectional fixed link	(S		EN 301 751	
5.342			5.351					
5.350			5.354					
5.351								
5.352A								

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation		cation Utilisation		ECC/ERC document	Standard	Note	
1530	- 1533	MHz							
MOBILE-S	SATELLITE (S/E	E) 5.353A 5.351A	MOBILE	-SATELLITE (S/E) 5.353A 5.351A	Mobile satellite appl	ications		EN 301 426	
SPACE OP	PERATION (S/E)		SPACE C	PPERATION (S/E)				EN 301 444	
Earth Explo	oration-Satellite		Earth Exp	oloration-Satellite				EN 301 681	
Fixed			Fixed					EN 301 473	
	ept Aeronautical	Mobile		cept Aeronautical Mobile					
5.341			5.341	EU15					
5.342			5.351						
5.351			5.354						
5.354									
1533	- 1535	MHz							
		E) 5.353A 5.351A	MOBILE	-SATELLITE (S/E) 5.353A 5.351A	Mobile satellite appl	ications		EN 301 426	
SPACE OP	PERATION (S/E)		SPACE C	PPERATION (S/E)				EN 301 444	
Earth Explo	oration-Satellite		Earth Exp	oloration-Satellite				EN 301 681	
Fixed			Mobile e	ccept Aeronautical Mobile				EN 301 473	
	ept Aeronautical	Mobile							
5.341			5.341	EU15					
5.342			5.351						
5.351			5.354						
5.354									
1535	- 1544	MHz							
MOBILE-S	SATELLITE (S/E	5.351A	MOBILE	-SATELLITE (S/E) 5.351A	Mobile satellite appl	ications		EN 301 426	
5.341	(3. 2	,	5.341	EU15	жүр.			EN 301 444	
5.351			5.351					EN 301 681	
5.353A			5.353A					EN 301 473	
5.354			5.354						

footnotes	RR Region 1 Allocation and RR Cotnotes relevant to CEPT and Crequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Note	
1544	- 1545	MHz						
MOBILE-S	SATELLITE (S/E	E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A	Mobile satellite app	lications		EN 301 426	
5.341	`		5.341 EU15				EN 301 444	
5.354			5.354				EN 301 681	
5.355			5.356				EN 301 473	
5.356				Search and rescue sa systems (incl GMDS	atellite SS)			
1545	- 1555	MHz						
MOBILE-S	SATELLITE (S/E	E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A	Mobile satellite app	lications		EN 301 426	
5.341			5.341 EU15	•			EN 301 444	
5.351			5.351				EN 301 681	
5.354			5.354				EN 301 473	
5.355			5.357					
5.357			5.357A					
5.357A 5.359			5.359					
1555 MOBILE-5 5.341 5.351 5.354 5.355 5.359	- 1559 SATELLITE (S/E	MHz 2) 5.351A	MOBILE-SATELLITE (S/E) 5.351A 5.341 EU15 5.351 5.354 5.359	Mobile satellite app	lications		EN 301 426 EN 301 444 EN 301 681 EN 301 473	
			AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329A 5.341 EU15 5.362B	GNSS				

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1610	- 1610.6	MHz						
	UTICAL RADION SATELLITE (E/S)		AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite applica	tions	ERC DEC (97)03	EN 301 441 EN 301 473	
5.341			5.341 EU15					
5.355			5.359					
5.359			5.364					
5.363			5.366					
5.364			5.367					
5.366			5.368					
5.367			5.371					
5.368			5.372					
5.371								
5.372	- 4642.9	MU~						
1 610.6 AERONAU MOBILE-S	- 1613.8 JTICAL RADION SATELLITE (E/S)		AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite applica		ERC DEC (97)03	EN 301 441 EN 301 473	
610.6 AERONAU MOBILE-S RADIO AS	JTICAL RADION	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY	Mobile satellite applica		, ,	EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15		ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359 5.363	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359 5.363 5.364	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366 5.367	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359 5.363 5.364 5.366	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366 5.367 5.368	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.366	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366 5.367 5.368 5.371	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366 5.367 5.368	Radio astronomy applic	ations		EN 301 473	Spectral line observations
610.6 AERONAU MOBILE-S RADIO AS 5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.366	UTICAL RADION SATELLITE (E/S)	AVIGATION	MOBILE-SATELLITE (E/S) 5.351A RADIO ASTRONOMY 5.149 EU15 5.341 5.359 5.364 5.366 5.367 5.368 5.371	Radio astronomy applic	ations		EN 301 473	Spectral line observations

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Suropean Common Allocation Utilisation EU footnote document			Standard	Note	
1613.8	- 1626.	5 MHz							
	SATELLITE (E	ONAVIGATION E/S) 5.351A	AERONAUTICAL RADIONAVIGATIO MOBILE-SATELLITE (E/S) 5.351A Mobile-Satellite (S/E)	••		ERC DEC (97)03	EN 301 441 EN 301 473		
5.341			5.341 EU15						
5.355			5.359						
5.359			5.364						
5.363			5.365						
5.364			5.366						
5.365			5.367						
5.366			5.368						
5.367			5.371						
5.368			5.372						
5.371									
5.372									
5.341 5.351 5.353A 5.354	SATELLITE (E	5/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A 5.341 EU15 5.351 5.353A 5.354	Mobile satellite appl			EN 301 426 EN 301 444 EN 301 681 EN 301 473		
5.355 5.359			5.359						
1631.5	- 1636.	5 MHz							
	SATELLITE (E	E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite appl	ications		EN 301 426		
5.341		, 0	5.341 EU15	woone satemite appi	icutions		EN 301 444		
5.351			5.351				EN 301 681		
5.353A			5.353A				EN 301 473		
5.354			5.354						
5.355			5.359						
5.359			5.374						
5.374			0.571						
3.37 +									

RR Region 1 Allocation and RR Footnotes relevant to CEPT and Frequency band	European Common Allocation	Utilisation EU foo	otnote ECC/ERC document	Standard	Note	
636.5 - 1645.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite applications		EN 301 426		
5.341	5.341 EU15			EN 301 444		
5.351	5.351			EN 301 681		
5.353A	5.353A			EN 301 473		
5.354	5.354					
5.355	5.359					
5.359						
645.5 - 1646.5 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Search and rescue satellite				
5.341	5.341 EU15	systems (incl GMDSS)				
5.354	5.354					
5.375	5.375					
646.5 - 1656.5 MHz MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite applications		EN 301 426		
5.341	5.341 EU15			EN 301 444		
5.351	5.351			EN 301 681		
5.354	5.354			EN 301 473		
5.355	5.357A					
5.357A	5.359					
5.359	5.376					
5.376						
656.5 - 1660 MHz						
MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Mobile satellite applications		EN 301 426		
5.341	5.341 EU15	moone successe approactions		EN 301 444		
5.351	5.351			EN 301 681		
5.354	5.354			EN 301 473		
5.355	5.359					
5.359	5.374					
5.374	5.57.					

MOBILE-SATELLITE (E/S) 5.351A MOBILE-SATELLITE (E/S) 5.351A Mobile satellite applications EN 301 426 RADIO ASTRONOMY EN 301 444 EN 301 444 5.149 5.149 EUI5 EN 301 681 5.351 5.351 Radio astronomy applications Continuum line and VLBI Measurements 5.354 5.376A 5.376A 1680.5 - 1668.4 MHz RADIO ASTRONOMY RADIO ASTRONOMY Defence systems EUI5A SPACE RESEARCH (passive) SPACE RESEARCH (passive) Radio astronomy applications Continuum line and VLBI measurements Fixed Fixed Fixed Fixed Continuum line and VLBI measurements 5.149 5.149 EU2 EU5 EU5 5.379A 5.379A 5.379A 5.379A FUIS FUIS		on 1 Allocatio s relevant to C y band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
RADIO ASTRONOMY	1660	- 1660.5	5 MHz						
5.34			Z/S) 5.351A		Mobile satellite appl	ications			
Sab	5.149							EN 301 681	
1.5.35 5.35 5.35	5.341			5.341					
1660.5 - 1668.4 MHz	5.351			5.351	Radio astronomy app	olications			
1660.5 - 1668.4 MHz	5.354			5.354					
RADIO ASTRONOMY RADIO ASTRONOMY SPACE RESEARCH (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) Radio astronomy applications Continuum line and VLBI measurements Fixed Mobile except Aeronautical Mobile Mobile S149 S149 EU2 5.149 5.149 EU2 5.379A 5.379A 5.379A 5.379A 5.379A 1668.4 - 1670 MHz FIXED FIXED PIXED PIX	5.376A			5.376A					
RADIO ASTRONOMY RADIO ASTRONOMY SPACE RESEARCH (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) SPACE RESEARCH (passive) Radio astronomy applications Continuum line and VLBI measurements Fixed Mobile except Aeronautical Mobile Mobile S149 S149 EU2 5.149 5.149 EU2 5.379A 5.379A 5.379A 5.379A 5.379A 1668.4 - 1670 MHz FIXED FIXED PIXED PIX	4000 F	- 4669 /	. MU-						
SPACE RESERVENT (passive) SPACE RESERVENT (passive) Radio astronomy applications Continuum line and VLBI measurements			F IVITIZ	RADIO ASTRONOMY	,				
Mobile except Aeronautical Mobile S.149 S.149 EU2		ESEARCH (pas	sive)						Continuum line and VLBI measurements
S.149		aamt Aaramaystia	al Mahila						
1668.4 - 1670 MHz		cept Aeronautic	ai Moone	-					
1668.4 - 1670 MHz									
1668.4 - 1670 MHz									
FIXED FIXED Defence systems EU15A METEOROLOGICAL AIDS METEOROLOGICAL AIDS Meteorological applications MOBILE except Aeronautical Mobile RADIO ASTRONOMY Mobile except Aeronautical Mobile S.149 S.149 EU2 5.341 5.341 EU15 METEOROLOGICAL AIDS MHZ FIXED METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 MOBILE 5.380 Fixed ERC T/R 42-01 EN 301 423 ECC DEC (02)07									
METEOROLOGICAL AIDS MOBILE except Aeronautical Mobile RADIO ASTRONOMY RADIO ASTRONOMY Mobile except Aeronautical Mobile 5.149 5.141 EU15 1670 - 1675 MHz FIXED METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 Fixed METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 METEOROLOGICAL AIDS METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 METEOROLOGICAL SATELLITE (S/E) METEOROLOGICAL SATELLITE (S/E) METEOROLOGICAL SATELLITE (S/E) METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 METEOROLOGICAL SATELLITE (S/E) METEOROLOGICAL SATELLITE (S/E) METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 METEOROLOGICAL SATELLITE (S/E) METEOROLOGICAL SATELLI	1668.4	- 1670	MHz						
MOBILE except Aeronautical Mobile RADIO ASTRONOMY Mobile except Aeronautical Mobile RADIO ASTRONOMY Mobile except Aeronautical Mobile 5.149 5.149 5.149 5.341 METEOROLOGICAL AIDS METEORO	FIXED			FIXED	Defence systems	EU15A			
RADIO ASTRONOMY Solid EU2					Meteorological appli	cations			
5.149		-		Mobile except Aeronautical Mobile	Radio astronomy app	olications			
FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 Fixed Meteorological applications METEOROLOGICAL AIDS Meteorological applications METEOROLOGICAL-SATELLITE (S/E) Mobile 5.380 Fixed FEC REC T/R 42-01 EN 301 423 ECC DEC (02)07 METEOROLOGICAL SATELLITE (S/E) MOBILE 5.380 ECC DEC (02)07	5.149			5.149 EU2					
FIXED METEOROLOGICAL AIDS Meteorological applications METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 MOBILE 5.380 METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 Fixed Meteorological applications ERC REC T/R 42-01 EN 301 423 ECC DEC (02)07	5.341			5.341 EU15					
FIXED METEOROLOGICAL AIDS Meteorological applications METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 MOBILE 5.380 METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 Fixed Meteorological applications ERC REC T/R 42-01 EN 301 423 ECC DEC (02)07	40=0	4075							
METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 M		- 1675	MHZ	METEOPOLOGICAL AIDS	Mataorologias appl	igntions			
METEOROLOGICAL-SATELLITE (S/E) MOBILE 5.380 MOBILE 5.380 Fixed MOBILE 5.380 MOBILE 5.380 ECC DEC (02)07		OLOGICAL AI	DS						
	METEOR	OLOGICAL-SA		MOBILE 5.380	TFTS			01 EN 301 423	
		5.580							

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note	
1675 - 1690 MHz							
FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) MOBILE except Aeronautical Mobile 5.341	FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E) MOBILE except Aeronautical Mobile 5.341 EU2 EU15	Meteorological applie	EU15A cations				
1690 - 1700 MHz							
METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (S/E)	Defence systems Meteorological applic	EU15A				
Fixed Mobile except Aeronautical Mobile 5.289 5.341 5.382	Fixed Mobile except Aeronautical Mobile 5.289 EU2 5.341 EU15 5.382						
1700 - 1710 MHz		D.A.	PWISI				
FIXED METEOROLOGICAL-SATELLITE (S/E) MOBILE except Aeronautical Mobile 5.289 5.341	FIXED METEOROLOGICAL-SATELLITE (S/E) Mobile except Aeronautical Mobile 5.289 EU2 5.341 EU15	Meteorological applie	EU15A cations				
1710 - 1785 MHz	FIXED	GSM1800	EU33	ERC DEC (95)03	EN 301 502		
MOBILE 5.384A 5.149	MOBILE 5.384A 5.149 EU15	GSIVI1600	EU33	ERC DEC (95)05 ERC REC T/R 22-0'			
5.341 5.385 5.387	5.341 EU29 5.385						

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note	
1785 - 1800	MHz							
FIXED		FIXED	Mobile applications					
MOBILE 5.384A		MOBILE	Radio microphones		ERC REC 70-03	EN 301 840	Within the band 1785.7-1799.4 MHz	
5.387		EU2 EU15						
1800 - 1805	MHz							
FIXED		MOBILE 5.380	TFTS		ERC REC T/R 42-01	EN 301 423		
MOBILE S.380 5.384A		Fixed			ECC DEC (02)07			
		EU15						
1805 - 1880	MHz							
FIXED		FIXED	GSM1800	EU33	ERC DEC (95)03	EN 301 502		
MOBILE 5.384A		MOBILE 5.384A			ERC REC T/R 22-07	' EN 301 511		
		EU15 EU29						
1880 - 1885	MHz							
FIXED		MOBILE 5.384A	DECT	EU33	ERC DEC (94)03	EN 301 406		
MOBILE 5.384A		Fixed				EN 301 908		
		EU15						
1885 - 1900	MHz							
FIXED		MOBILE 5.388A	DECT	EU33	ERC DEC (94)03	EN 301 406		
MOBILE 5.388A		Fixed				EN 301 908		
5.388		5.388 EU15						
1900 - 1930	MHz							
FIXED		FIXED	UMTS/IMT-2000		ERC DEC (97)07	EN 301 908	For border coordination see also ERC REC(01)01	
MOBILE 5.388A		MOBILE 5.388A					For harmonised spectrum scheme see also ERC DEC (99)25	
5.388		5.388 EU15			ERC DEC (00)01			
		EU16			ERC DEC (99)25			

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
1930	- 1970	MHz						
FIXED			FIXED	UMTS/IMT-2000		ERC DEC (97)07		For border coordination see also ERC REC(01)01
MOBILE 5	5.388A		MOBILE 5.388A					For harmonised spectrum scheme see also ERC DEC (99)25
5.388			5.388 EU15			ERC DEC (00)01		
			EU16					
1970	- 1980	MHz						
FIXED MOBILE 5	5 388 A		FIXED MOBILE 5.388A	UMTS/IMT-2000		ERC DEC (97)07		For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
5.388			5.388 EU15			ERC DEC (00)01		
			EU16					
1980	- 2010	MHz						
FIXED			FIXED	Mobile satellite applicati	ons	ERC DEC (97)03	EN 301 442	
MOBILE			MOBILE			ERC DEC (97)04	EN 301 473	
5.388	SATELLITE (E/S	S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A 5.388 EU15	UMTS/IMT-2000 satelli component		ERC DEC (97)07		
5.389A			5.389A EU16			ERC DEC (00)01		
						ERC DEC (99)25		
2010	- 2025	MHz						
FIXED MOBILE 5	5.388A		FIXED MOBILE 5.388A	UMTS/IMT-2000		ERC DEC (97)07	EN 301 908	For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
5.388			5.388 EU15			ERC DEC (00)01		
			EU16			ERC DEC (99)25		

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2025	- 2110	MHz						
	EXPLORATION-S	SATELLITE (E/S)	EARTH EXPLORATION-SATELLITE (E/S)	Fixed links		ERC REC T/R 13-0		
(S/S) FIXED			(S/S) FIXED	SAP/SAB	EU16A	ERC REC 25-10		On a tuning range basis
MOBILE			MOBILE 5.391	Space science services				
	PACE OPERATION (E/S) (S/S) PACE RESEARCH (E/S) (S/S) 5.392		SPACE OPERATION (E/S) (S/S) SPACE RESEARCH (E/S) (S/S) 5.392 EU2	Tactical Radio Relay	EU16A			Harmonised military band for Tactical Radio Relay linksfor near
								cross border operation within the band 2025-2070 MHz
			EU15					
			EU27					
2110	- 2120	MHz						
FIXED MOBILE	5 388 A		FIXED MOBILE 5.388A	UMTS/IMT-2000		ERC DEC (97)07	EN 301 908	For border coordination see also ERC REC(01)01 For harmonised spectrum scheme see also ERC DEC (99)25
	ESEARCH (deep s	space) (E/S)	SPACE RESEARCH (deep space) (E/S)			ERC DEC (00)01		
5.388			5.388 EU15			ERC DEC (99)25		
			EU16					
2120	- 2170	MHz						
FIXED			FIXED	UMTS/IMT-2000		ERC DEC (97)07	EN 301 908	For border coordination see also ERC REC(01)01
MOBILE 5.388	5.388A		MOBILE 5.388A 5.388 EU15			ERC DEC (00)01		For harmonised spectrum scheme see also ERC DEC (99)25
5.388 5.392A			5.388 EU15 EU16			ERC DEC (99)25		
2170	- 2200	MHz						
FIXED			FIXED	Mobile satellite applica	itions	ERC DEC (97)03	EN 301 442	
MOBILE	GAMPIA TOPO (C.)	. 5.0514	MOBILE			ERC DEC (97)04	EN 301 473	
MOBILE- 5.388	-SATELLITE (S/E	E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A 5.388 EU15	UMTS/IMT-2000 satel component	lite	ERC DEC (97)07		·
5.389A			5.389A EU16			ERC DEC (00)01		
5.392A	L							

			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2200 - 229	90	MHz						
EARTH EXPLORAT (S/S)	TION-SATI	ELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E) (S/S)	Fixed links		ERC REC T/R 13-0	1 EN 301 751	
FIXED			(S/S) FIXED	Radio astronomy appli				VLBI
MOBILE 5.391			MOBILE 5.391	SAP/SAB	EU16A	ERC REC 25-10		On a tuning range basis
	SPACE OPERATION (S/E) (S/S) SPACE RESEARCH (S/E) (S/S)		SPACE OPERATION (S/E) (S/S) SPACE RESEARCH (S/E) (S/S)	Space science services				
5.392	(4.7) (4.14)	,	5.392 EU15 EU27	Tactical Radio Relay	EU16A			Harmonised military band for Tactical Radio Relay links for near cross border operation within the band 2200-2245 MHz.
FIXED MOBILE except Aero SPACE RESEARCH	onautical M		FIXED MOBILE except Aeronautical Mobile SPACE RESEARCH (deep space) (S/E) EU2	Mobile applications				
2300 - 240	00	MHz						
FIXED MOBILE			FIXED MOBILE	Aeronautical Telemetry		ERC REC 62-02		Parts of the band are used for aeronautical telemetry on a national basis
Amateur			Amateur	Amateur applications			EN 301 783	
Radiolocation			Radiolocation					
5.395			EU2	Mobile applications				

footnotes	RR Region I Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation EU foot	tnote ECC/ERC document	Standard	Note
2400	- 2450	MHz					
FIXED			FIXED	Amateur applications		EN 301 783	
MOBILE			MOBILE	Amateur Satellite applications		EN 301 783	
Amateur Radiolocati	ion		Amateur Amateur-Satellite	Automatic Vehicle Identification	ERC REC 70-03	EN 300 761	2446-2454 MHz
5.150	ion		5.150 EU2	ISM			
5.282			5.282 EU15		ERC DEC (01)08	EN 300 440	
				Motion sensors			
				Non specific SRD	ERC DEC (01)05 ERC REC 70-03	EN 300 440	
				n nyn		EN 200 440	
				RFID	ERC REC 70-03	EN 300 440	
				RLAN	ERC DEC (01)07 ERC REC 70-03	EN 300 328	
					ERC REC /0-03		
2450	- 2483.5	MHz					
FIXED			FIXED	Automatic Vehicle Identification	ERC REC 70-03	EN 300 761	2446-2454 MHz
MOBILE			MOBILE	ISM			
Radiolocati	ion				FD G D D G (04) 00	TD 1 200 440	
5.150			5.150 EU2	Motion sensors	ERC DEC (01)08	EN 300 440	
5.397			EU15	Non specific SRD	ERC DEC (01)05	EN 300 440	
					ERC REC 70-03		
				RFID	ERC REC 70-03	EN 300 440	
				RLAN	ERC DEC (01)07	EN 300 328	
					ERC REC 70-03		
2483.5	- 2500	MHz					
FIXED			FIXED	Fixed links	ERC REC T/R 13-01	EN 301 751	
MOBILE			MOBILE	ISM			
	SATELLITE (S/E)) 5.351A	MOBILE-SATELLITE (S/E) 5.351A	Mobile applications			
Radiolocati 5.150	ion		5.150 EU15		ED C DEC (05)04		
5.371			5.371	Mobile satellite applications	ERC DEC (97)03	EN 301 441 EN 301 473	
5.397			5.398	CADICAD			
5.398			5.402	SAP/SAB	ERC REC 25-10		
5.399							
5.402							

	on 1 Allocation relevant to CE y band		Europe	an Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2500	- 2520	MHz							
FIXED 5.4	09 5.410 5.411		MOBILE	except aeronautical mobile 5.384A	Mobile satellite appli	cations			
			MOBILE- Fixed 5.414	SATELLITE (S/E) 5.403 5.351A EU15	UMTS/IMT-2000		ECC DEC (02)06		
5 20 Roadc	- 2655 Asting-satell	MHz	FIXED		Defence systems				
IXED 5.4	0 5.409 5.410 5.411 LE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		2		ERC REC T/R 13-0			
10BILE 6 5.339		5.339	5.339 EU2					On a tuning range basis until UMTS/IMT2000 is implemented	
5.403 5.405 5.412 5.418 5.418B 5.418C			5.418B 5.418C	EU15 EU16	Terrestrial UMTS/IM	IT-2000	ECC DEC (02)06		
	- 2670 ASTING-SATELI 109 5.410 5.411	MHz LITE 5.413 5.416	FIXED MOBILE	except aeronautical mobile 5.384A			ERC REC T/R 13-0		
	except aeronautica		-	loration-Satellite (passive)					Continuum measurements
adio Astr	Exploration-Satellite (passive) Astronomy Research (passive)	Radio Ast Space Res	ronomy earch (passive)	Terrestrial UMTS/IM	IT-2000	ECC DEC (02)06		On a tuning range basis until UMTS/IMT2000 is implemented	
5.149 5.412 5.420			5.149	EU2 EU15 EU16					

RR Region footnotes frequence	on 1 Allocation s relevant to CE cy band	and RR EPT and	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
2670	- 2690	MHz						
	409 5.410 5.411		MOBILE except aeronautical mobile 5.384A	Mobile satellite app				
	except aeronautic		MOBILE-SATELLITE (E/S) 5.351A	Radio astronomy ap	plications			Continuum measurements
	-SATELLITE (E/Soloration-Satellite		Fixed Radio Astronomy	UMTS/IMT-2000		ECC DEC (02)06		
Radio Ast		,	•					
Space Res	search (passive)							
5.149			5.149 EU15					
5.412			5.419					
5.419			5.420					
5.420								
2690	- 2700	MHz						
EARTH E	EXPLORATION-	SATELLITE	EARTH EXPLORATION-SATELLITE	Passive applications	.			
(passive)			(passive)					
	STRONOMY		RADIO ASTRONOMY					
	ESEARCH (passi	ve)	SPACE RESEARCH (passive)					
5.340			5.340					
5.421 5.422								
3.422								
2700	- 2900	MHz						
AERONA	UTICAL RADIO	NAVIGATION	AERONAUTICAL RADIONAVIGATION	Meteorological rada	ırs			
S5.337			\$5.337					
Radioloca	ition		Radiolocation	Radar and Navigation				
5.423			5.423					
2900	- 3100	MHz						
	AVIGATION 5.4	26	RADIOLOCATION	Radar and Navigation	on systems			
Radioloca			RADIONAVIGATION 5.426	Radar and Ivavigation				
5.425			5.425					
5.427			5.427					
5.427			5.427					

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation EU	footnote	ECC/ERC document	Standard	Note
3100	- 3300	MHz						
-	OCATION oration-Satellite (a earch (active)	active)	RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) 5.149	Radars and active sensors				
3300	- 3400	MHz						
5.149 5.430	OCATION		RADIOLOCATION 5.149	Radars				Upper limit for airborne radars 3410 MHz.
3400	- 3500	MHz						
FIXED FIXED-SA Mobile Radiolocat	ATELLITE (S/E)		FIXED FIXED-SATELLITE (S/E) MOBILE Amateur	Amateur applications Fixed links		ERC REC 14-03	EN 301 751 EN 301 753	EU17 within the band 3400-3410 MHz Including point to multipoint
5.431	lon		Radiolocation	Fixed wireless access systems		ERC REC 13-04 ERC REC 14-03	EN 301 751 EN 301 753	
				Radars				Upper limit for airborne radars is 3410 MHz
				SAP/SAB	EU17A			For coordinated SAB/SAP applications for occasional use
3500	- 3600	MHz						
	ATELLITE (S/E)		FIXED FIXED-SATELLITE (S/E)	Fixed links		ERC REC 14-03	EN 301 751 EN 301 753	Including point to mulitpoint
Mobile Radiolocat	ion		MOBILE	Fixed wireless access systems		ERC REC 13-04 ERC REC 14-03	EN 301 751 EN 301 753	
				Mobile applications	EU17A			For coordinated SAB/SAP applications for occasional use

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
3600	- 4200	MHz						
FIXED			FIXED	Coordinated earth sta			EN 301 443	Priority for civil networks
FIXED-SA Mobile	TELLITE (S/E)		FIXED-SATELLITE (S/E)	Fixed wireless acces	,	ERC REC 14-03	EN 301 751 EN 301 753	3600-3800 MHz including point-to-multipoint
				Medium/high capaci	ty fixed links	ERC REC 12-08	EN 301 751	
200	- 4400	MHz						
	JTICAL RADION	AVIGATION	AERONAUTICAL RADIONAVIGATION	Earth Exploration Sa				For sea surface temperature measurements
S5.338 5.440			S5.338 5.440 EU18	Radio altimeters				
1400 FIXED MOBILE	- 4500	MHz	FIXED MOBILE EU2	Mobile applications	EU20 EU20			Harmonised military band for fixed and mobile systems For coordinated SAB/SAP applications for occasional use
500	- 4800	MHz	EU27					
FIXED			FIXED	Coordinated earth sta	ations in FSS			Fixed-Satellite service not to be implemented in NATO Europe.
FIXED-SA MOBILE	TELLITE (S/E) 5.	441	FIXED-SATELLITE (S/E) 5.441 MOBILE					Fixed-Satellite frequency plan in 4500-4800 MHz
TOBILE			EU27	Defence systems	EU20			Harmonised military band for fixed and mobile systems
				Mobile applications				For coordinated SAB/SAP applications for occational use
				Transhorizon links				
800	- 4990	MHz						
FIXED			FIXED	Defence systems	EU20			Harmonised military band for fixed and mobile systems
MOBILE 5 Radio Astro			MOBILE except Aeronautical Mobile Radio Astronomy	Mobile applications				For coordinated SAB/SAP applications for occasional use
5.149 5.339	onomy		5.149 EU27 5.339	Passive applications				Space Research and EES (passive) above 4950 MHz in some countries Continuum measurements.

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
4990 - 5000 MHz						
FIXED	FIXED	Defence systems	EU20			Harmonised military band for fixed and mobile systems
MOBILE except Aeronautical Mobile RADIO ASTRONOMY	MOBILE except Aeronautical Mobile RADIO ASTRONOMY	Mobile applications				For coordinated SAB/SAP applications for occasional use
Space Research (passive)	RADIO ASTRONOMI	Radio astronomy app	lications			Continuum measurements and VLBI
5.149	5.149 EU27					
5000 - 5030 MHz						
AERONAUTICAL RADIONAVIGATIO	N AERONAUTICAL RADIONAVIGATION Radio Astronomy					Aeronautical Radionavigation and Fixed Satellite Service envisaged in some countries
	Space Research (passive)	Radio astronomy app				VLBI observations
5.367 5.443A	5.367 5.443A					
5.443B	5.443B					
5030 - 5150 MHz						
AERONAUTICAL RADIONAVIGATIO	N AERONAUTICAL RADIONAVIGATION	MLS				Aeronautical Radionavigation envisaged in some countries.
5.367	5.367 EU18					Fixed Satellite Service in use in some countries
5.444 5.444A	5.443B 5.444					
J. 111 A	5.444A					
5150 - 5250 MHz						
AERONAUTICAL RADIONAVIGATIO FIXED-SATELLITE (E/S) 5.447A	N FIXED-SATELLITE (E/S) 5.447A MOBILE	Feederlinks for MSS				Aeronautical Radionavigation and Fixed Satellite Service envisaged in some countries
5.446	5.446	HIPERLANs		ERC DEC (99)23	EN 300 836	
5.447	5.447			ERC REC 70-03		
5.447B 5.447C	5.447B 5.447C					
J.44 / C	3.44/C					

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	I tilisation FI tootnote	ECC/ERC document	Standard	Note	
5250	- 5255	MHz						
	XPLORATION-S	SATELLITE	EARTH EXPLORATION-SATELLITE	Active Sensors				
(active) RADIOLO SPACE RI	OCATION ESEARCH 5.447	D	(active) RADIOLOCATION SPACE RESEARCH 5.447D	HIPERLANs		ERC DEC (99)23 ERC REC 70-03	EN 300 836	
			Mobile	Position fixing				
5.448 5.448A			5.448A EU22	Shipborne and VTS ra	adar			
3.446A				Tactical radars				
				Weapon system radar	S			
				Weather radars				Ground based and airborne
5255	- 5350	MHz						
	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)	Active Sensors					
RADIOLO			HIPERLANs		ERC DEC (99)23 ERC REC 70-03	EN 300 836		
		,	Mobile	Position fixing				
5.448 5.448A			5.448A EU22	Shipborne and VTS ra	adar			
3.44071				Tactical radars				
				Weapon system radar	S			
				Weather radars				Ground based and airborne
5350	- 5450	MHz						
AERONA S5.449	UTICAL RADIO	NAVIGATION	AERONAUTICAL RADIONAVIGATION S5.449	Active Sensors				
EARTH E	XPLORATION-S	SATELLITE	EARTH EXPLORATION-SATELLITE	Position fixing				
	(active) 5.448B Radiolocation	(active) 5.448B Fixed	Shipborne and VTS ra	adar				
		Radiolocation	Tactical radars					
			EU22	Weapon system radar	S			
				Weather radars				Ground based and airborne

footnote	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
5450	- 5460	MHz						
AERONA S5.449	UTICAL RADIC	NAVIGATION	AERONAUTICAL RADIONAVIGATION S5.449	Active Sensors				
	XPLORATION-	SATELLITE	EARTH EXPLORATION-SATELLITE	Position fixing				
(active) 5. Radioloca			(active) 5.448B Radiolocation	Shipborne and VTS ra	ıdar			
Radioloca	tion		EU22	Tactical radars				
				Weapon system radars	3			
				Weather radars				Ground based and airborne
5460 RADION. Radioloca	- 5470 AVIGATION 5.4 tion	MHz 49	RADIONAVIGATION 5.449 Radiolocation EU22	Shipborne and VTS ra Tactical radars Weapon system radars Weather radars	dar S			Ground based and airborne
5470	- 5650	MHz						
MARITIN Radioloca	ME RADIONAVI	GATION	MARITIME RADIONAVIGATION MOBILE	HIPERLANs		ERC DEC (99)23 ERC REC 70-03	EN 300 836	
5.450			Radiolocation 5.452 EU22	Position fixing				
5.451			5.432 E022	Shipborne and VTS ra	ıdar			
5.452				Tactical radars				
				Weapon system radars	3			
				Weather radars				Ground based and airborne

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band			European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
5650	- 5725	MHz						
RADIOLO	CATION		MOBILE	Amateur applications	EU17		EN 301 783	Within 5660-5670 MHz
Amateur			RADIOLOCATION	Amateur Satellite application			EN 301 783	Within 5660-5670 MHz
-	arch (deep space)		Amateur	(E/S)				
5.282 5.451			5.282 EU17 EU22	HIPERLANs		ERC DEC (99)23	EN 300 836	
5.454			EU22			ERC REC 70-03		
5.455				Position fixing				
				Shipborne and VTS radar				
				Tactical radars				
				Weapon system radars				
				Weather radars				Ground based and airborne
FIXED-SA RADIOLO Amateur 5.150 5.451	- 5830 ATELLITE (E/S) CCATION	MHz	FIXED-SATELLITE (E/S) RADIOLOCATION Amateur Mobile 5.150 EU22	Amateur applications ISM Non civil radiolocation Non specific SRD				Within the band 5725-5875 MHz Within the band 5725-5875 MHz
5.455 5.456				Road Transport and Traffic Telematic Systems (RTTT)		ECC DEC (02)01 ERC REC 70-03	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
5830	- 5850	MHz						
FIXED-SA RADIOLO	TELLITE (E/S) CATION		FIXED-SATELLITE (E/S) RADIOLOCATION	Amateur Satellite application (S/E)	ons EU23			Within the band 5830-5850 MHz
Amateur			Amateur	ISM				Within the band 5725-5875 MHz
Amateur-S	atellite (S/E)		Amateur-Satellite (S/E) Mobile	Non civil radiolocation				
5.150 5.451			5.150 EU22	Non specific SRD		ERC DEC (01)06 ERC REC 70-03	EN 300 440	Within the band 5725-5875 MHz
5.455				Weather radars				Ground based and airborne
5.456								

		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
- 5925	MHz						
		FIXED				EN 301 443	Priority for civil networks
TELLITE (E/S)			ISM				Within the band 5725-5875 MHz
MOBILE 5.150		5.150	Non specific SRD		ERC DEC (01)06 ERC REC 70-03	EN 300 440	Within the band 5725-5875 MHz
- 6425	MHz						
		FIXED				EN 301 443	Priority for civil networks
TELLITE (E/S)		FIXED-SATELLITE (E/S)	Medium/high capac	ity fixed links	ERC REC 14-01	EN 301 751	
- 6700	MHz						
TELLITE (E/S)							
(,		Earth Exploration-Satellite (passive)					For sea surface temperature measurements
		5.149					
		5.440					
- 7075	MHz						
		FIXED					For sea surface temperature measurements
TELLITE (S/E) (E/S) 5.441	FIXED-SATELLITE (E/S) 5.441 Farth Exploration Satellite (passive)	Feederlinks for MSS	3			Within the band 6925-7075 MHz
		5.458					Within the band 6725-7025 MHz
		5.458A					Priority for civil networks
		5.458B 5.458C	C 1	-			
	- 6425 - 6700 - 7075	- 5925 MHz TELLITE (E/S) - 6425 MHz TELLITE (E/S) - 6700 MHz TELLITE (E/S)	FIXED FIXED FIXED FIXED-SATELLITE (E/S) - 6425 MHz FIXED FIXED-SATELLITE (E/S) Earth Exploration-Satellite (passive) 5.149 5.440 5.458 - 7075 MHz FIXED FIXED-SATELLITE (E/S) 5.441 FIXED FIXED-SATELLITE (E/S) 5.441 FIXED FIXED-SATELLITE (E/S) 5.441 FIXED FIXED-SATELLITE (E/S) 5.441 FIXED FIXED-SATELLITE (E/S) 5.441	- 5925 MHz FIXED FIXED_SATELLITE (E/S) FIXED_SATELLITE (E/S) FIXED_SATELLITE (E/S) FIXED_SATELLITE (E/S) FIXED_SATELLITE (E/S) FIXED_SATELLITE (E/S) FIXED FIXED_SATELLITE (E/S) FIXED FIXED_SATELLITE (E/S) FIXED_SATELLITE (E/S	- 5925 MHz FIXED FIXED-SATELLITE (E/S) FIXE	FIXED Coordinated earth stations in FSS FIXED SATELLITE (E/S) MOBILE 5.150 FIXED-SATELLITE (E/S) MOBILE 5.150 FIXED-SATELLITE (E/S) MOBILE 5.150 FIXED-SATELLITE (E/S) MOBILE 5.150 FIXED-SATELLITE (E/S) Medium/high capacity fixed links ERC REC 14-01 FIXED Coordinated earth stations in FSS FIXED-SATELLITE (E/S) Medium/high capacity fixed links ERC REC 14-01 FIXED Coordinated earth stations in FSS FIXED-SATELLITE (E/S) Medium/high capacity fixed links ERC REC 14-01 FIXED FIXED-SATELLITE (E/S) Earth Exploration Satellite systems FIXED Medium/high capacity fixed links ERC REC 14-02 FIXED-SATELLITE (E/S) Earth Exploration Satellite systems FIXED FIXED-SATELLITE (E/S) FIXED-SATELLITE (E/S) S-440 5.440 5.458 FIXED-SATELLITE (E/S) 5.441 FIXE	relevant to CEPT and bland - 5925 MHz FIXED Coordinated earth stations in FSS EN 301 443 FELLITE (E/S) FIXED SATELLITE (E/S) SISM MOBILE S.150 COOrdinated earth stations in FSS EN 300 440 FRXED SATELLITE (E/S) ERC PC-0-3 EN 300 440 FRXED SATELLITE (E/S) ERC PC-0-3 EN 300 440 FRXED FIXED COOrdinated earth stations in FSS EN 301 443 FELLITE (E/S) MHz - 6425 MHz FIXED COOrdinated earth stations in FSS EN 301 443 FIXED SATELLITE (E/S) Medium/high capacity fixed links ERC REC 14-01 EN 301 751 FIXED FIXED COOrdinated earth stations in FSS EN 301 443 FIXED FIXED SATELLITE (E/S) Earth Exploration-Satellite (passive) S.149 5.440 5.458 FIXED EARTH Exploration Satellite systems FIXED FIXED Earth Exploration Satellite systems FIXED FIXED FIXED Earth Exploration Satellite systems FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED SATELLITE (E/S) S.441 FIXED FIXED FIXED FIXED FIXED FIXED FIXED SATELLITE (E/S) S.441 FIXED SATELLITE (E/S) S.441 FIXED FIXED SATELLITE (E/S) S.441 FIXED SATELLI

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
7075	- 7125	MHz						
FIXED			FIXED	Earth Exploration S			For sea surface temperature measurements	
MOBILE			Earth Exploration-Satellite (passive)	Medium/high capac	ity fixed links	ERC REC 14-02	EN 301 751	
5.458 5.459			5.458					
7125	- 7250	MHz						
FIXED			FIXED	Earth Exploration S				For sea surface temperature measurements
MOBILE			MOBILE Earth Exploration-satellite (E/S)	Fixed links		ECC REC 02-06	EN 301 751	
			Space Operation (E/S) Space Research (E/S)					
5.458			5.458					
5.459 5.460			5.460					
7250	- 7300	MHz						
FIXED			FIXED	Defence systems				Harmonised military band for satellite operation
MOBILE	ATELLITE (S/E)		FIXED-SATELLITE (S/E) MOBILE	Fixed links		ECC REC 02-06	EN 301 751	FIXED and MOBILE services not to be implemented in most NATO countries
5.461			5.461 EU2 EU27	Mobile satellite app	lications			Within the band 7250-7375 MHz
7300	- 7450	MHz						
FIXED			FIXED	Defence systems				Harmonised military band for satellite operation
FIXED-SA	TELLITE (S/E)		FIXED FIXED-SATELLITE (S/E)			ECC REC 02-06	EN 301 751	riamoniscu minary band for sacrine operation
MOBILE e 5.461	except Aeronaution	al Mobile	MOBILE except Aeronautical Mobile 5.461 EU2					Within the band 7250-7375 MHz
3.401			5.461 EU2 EU27					William de Gild 7250 7577 Mil2

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note
7450 - 7550 MHz						
FIXED	FIXED	Defence systems				Harmonised military band for satellite operation
FIXED-SATELLITE (S/E) METEOROLOGICAL-SATELLITE (S/E)	FIXED-SATELLITE (S/E) METEOROLOGICAL-SATELLITE (S/E)	Fixed links		ECC REC 02-06	EN 301 751	
MOBILE except Aeronautical Mobile 5.461A	MOBILE except Aeronautical Mobile 5.461A EU2 EU27	Meteorological Satellit	e			Limited to geostationary systems
7550 - 7750 MHz	FIXED	Defence systems				Harmonised military band for satellite operation
FIXED-SATELLITE (S/E) MOBILE except Aeronautical Mobile	FIXED-SATELLITE (S/E) MOBILE except Aeronautical Mobile EU2 EU27	Fixed links		ECC REC 02-06	EN 301 751	
7750 - 7850 MHz FIXED METEOROLOGICAL-SATELLITE (S/E)	FIXED METEOROLOGICAL-SATELLITE (S/E)	Defence systems Fixed links		ECC REC 02-06	EN 301 751	
5.461B MOBILE except Aeronautical Mobile	5.461B MOBILE except Aeronautical Mobile EU2	Meteorological Satellit	e			Limited to non-geostationary systems
7850 - 7900 MHz FIXED	FIXED	Defence systems				
MOBILE except Aeronautical Mobile	MOBILE except Aeronautical Mobile	Fixed links		ECC REC 02-06	EN 301 751	
7900 - 8025 MHz						
FIXED	FIXED	Defence systems				
FIXED-SATELLITE (E/S) MOBILE 5.461	FIXED-SATELLITE (E/S) MOBILE 5.461 EU2	Fixed links		ECC REC 02-06	EN 301 751	FIXED and MOBILE services not to be implemented above 7975 MHz in NATO countries
	EU27	Mobile satellite applica				

RR Regio footnotes frequenc	on 1 Allocation s relevant to CE y band	and RR PT and	European Common Allocation	ommon Allocation Utilisation EU footnote				Note
8025	- 8175	MHz						
	XPLORATION-S	SATELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E)	Defence systems				Harmonised military band for satellite operation
FIXED SA	ATELLITE (E/S)		FIXED FIXED-SATELLITE (E/S)	Earth Exploration Sa	tellite systems			
	FIXED-SATELLITE (E/S) MOBILE 5.463 5.462A		MOBILE 5.463	Fixed links		ECC REC 02-06	EN 301 751	
5.462A			5.462A EU2 EU27	Mobile applications				Within the band 8025-8200 MHz
8175	- 8215	MHz						
	XPLORATION-S	SATELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E)	Defence systems				Harmonised military band for satellite operation
FIXED-SA	ATELLITE (E/S)		FIXED FIXED-SATELLITE (E/S)	Earth Exploration Sa	tellite systems			
	OLOGICAL-SAT	ELLITE (E/S)	METEOROLOGICAL-SATELLITE (E/S)	Fixed links		ECC REC 02-06	EN 301 751	
MOBILE: 5.462A			MOBILE 5.463 5.462A EU2 EU27	Mobile applications				Within the band 8025-8200 MHz
8215	- 8400	MHz						
	XPLORATION-S	SATELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E)	Defence systems				Harmonised military band for satellite operation
FIXED FIXED-SA	ATELLITE (E/S)		FIXED FIXED-SATELLITE (E/S)	Earth Exploration Sa				
MOBILE :				Fixed links		ECC REC 02-06	EN 301 751	
5.462A			5.462A EU2 5.463 EU27	Radio astronomy app				VLBI observations
8400	- 8500	MHz						
	except Aeronautic ESEARCH (S/E):		FIXED SPACE RESEARCH (S/E) 5.465 Radiolocation	Fixed links		ECC REC 02-06	EN 301 751	

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note	
8500	- 8550	MHz							
RADIOLOG 5.469	CATION		RADIOLOCATION 5.469 EU2 EU24	Civil and military ac radionavigation e.g. approach Shipborne, land and surveillance and we	airfield airborne				
8550	- 8650	MHz							
(active) RADIOLOG	XPLORATION-SA CATION SEARCH (active		EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469 EU2	Civil and military ac radionavigation e.g. approach Shipborne, land and surveillance and we	airfield airborne apon radars				
5.469A			5.469A EU24	Spaceborne active s	ensors				
8650	- 8750	MHz							
RADIOLOG 5.469	CATION		RADIOLOCATION 5.469 EU2 EU24	Civil and military ac radionavigation e.g. approach Shipborne, land and surveillance and we	airfield airborne apon radars				
8750	- 8850	MHz							
	JTICAL RADION	NAVIGATION	AERONAUTICAL RADIONAVIGATION S5.470 RADIOLOCATION Space Research EU2 EU24	Civil and military ac radionavigation e.g. approach Shipborne, land and surveillance and we	airfield airborne				
8850	- 9000	MHz							
MARITIME RADIOLOG	E RADIONAVIG CATION	ATION 5.472	MARITIME RADIONAVIGATION 5.472 RADIOLOCATION Space Research	Civil and military as radionavigation e.g. approach					
5.473			5.473 EU2 EU24	Shipborne, land and surveillance and we					

footnotes	RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ECC/ERC document	Standard	Note		
9000	- 9200	MHz								
S5.337	Radiolocation		AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation Space Research EU2 EU24	Civil and military aeronautical radionavigation e.g. airfield approach Shipborne, land and airborne surveillance and weapon radars						
9200	- 9300	MHz								
MARITIM RADIOLO	ME RADIONAVIO OCATION	GATION 5.472	MARITIME RADIONAVIGATION 5.472 RADIOLOCATION Space Research	Civil and military aeroradionavigation e.g. a approach						
5.473			5.473 EU2	Motion sensors		ERC REC 70-03	EN 300 440			
5.474			5.474 EU24	Shipborne, land and a surveillance and weap	oon radars					
9300	- 9500 AVIGATION 5.47	MHz	RADIONAVIGATION 5.476	Civil and military con	onoutical					
Radiolocat		/6	RADIONAVIGATION 5.476 Radiolocation Space Research	Civil and military aero radionavigation e.g. a approach	irfield					
5.427			5.427 EU2	Motion sensors		ERC REC 70-03	EN 300 440			
5.474 5.475			5.474 EU24 5.475	Shipborne, land and a surveillance and weap						
9500	- 9800	MHz								
(active)	EXPLORATION-S OCATION	SATELLITE	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION	Civil and military aerradionavigation e.g. a approach	irfield					
	AVIGATION		SPACE RESEARCH (active)	Motion sensors		ERC REC 70-03	EN 300 440			
5.476A	ESEARCH (active	e)	5.476A EU2 EU24	Shipborne, land and a surveillance and weap	irborne					
			LOZT	Spaceborne active ser	isors					

RR Region 1 Allocation and RR footnotes relevant to CEPT and frequency band	European Common Allocation	Utilisation EU footn	note ECC/ERC document	Standard	Note
9800 - 10000 MHz					
RADIOLOCATION	RADIOLOCATION	Civil and military aeronautical			
Fixed	Space Research	radionavigation e.g. airfield			
5.477	5.479 EU2	approach			
5.478	EU24	Motion sensors	ERC REC 70-03	EN 300 440	Within the band 9500-9975 MHz
5.479		Shipborne, land and airborne surveillance and weapon radars			

R footnote relevant to EPT and frequency ba		opean Common Allocation Utilisation		EU footnote	ECC ERC Document	Standard	Note
10 - 10.15	GHz						
FIXED	FIXEI		Amateur applications			EN 301 783	
MOBILE	MOBI		Non civil radar				
RADIOLOCATION	Amate	OLOCATION	SAP/SAB applications	EU17A	ERC REC 25-10		
5.479	5.479	EU2					
10.15 - 10.3	GHz						
FIXED	FIXE)	Amateur applications			EN 301 783	
MOBILE	MOBI		Civil and military radars				Low power radars in certain subbands
RADIOLOCATION	Amate	OLOCATION	Fixed links		ERC REC 12-05	EN 301 751	
Amateur	1 11111110		Fixed wireless access systems		ERC REC 13-04	EN 301 753	Including point- to- multipoint
		EIIO					
10.2 10.45	: GU-	EU2	SAP/SAB applications	EU17A	ERC REC 25-10		
MOBILE	FIXEI) OLOCATION	SAP/SAB applications Amateur applications Civil and military radars	EU17A	ERC REC 25-10	EN 301 783	
FIXED MOBILE RADIOLOCATION	FIXEI RADIO) OLOCATION ur	SAP/SAB applications Amateur applications Civil and military radars	EU17A	ERC REC 25-10 ERC REC 25-10	EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION	FIXEI RADIO Amate) OLOCATION ur	SAP/SAB applications Amateur applications Civil and military radars	EU17A	ERC REC 25-10 ERC REC 25-10	EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION	FIXEI RADIO Amate	O OLOCATION uir e	SAP/SAB applications Amateur applications Civil and military radars	EU17A	ERC REC 25-10 ERC REC 25-10	EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION Amateur	FIXEI RADIO Amate	O OLOCATION ur e EU2	SAP/SAB applications Amateur applications Civil and military radars	EU17A	ERC REC 25-10 ERC REC 25-10	EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION Amateur 10.45 - 10.5 RADIOLOCATION	FIXEI RADI(Amate Mobile FIXEI	DIOCATION ur E EU2 EU17	Amateur applications Civil and military radars SAP/SAB applications Amateur applications	EU17A EU17A EU23	ERC REC 25-10 ERC REC 25-10	EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION Amateur 10.45 - 10.5 RADIOLOCATION Amateur	FIXEI RADIG Amate Mobile FIXEI MOBI	DIOCATION ur E EU2 EU17	Amateur applications Civil and military radars SAP/SAB applications	EU17A EU17A EU23	ERC REC 25-10 ERC REC 25-10	EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION Amateur 10.45 - 10.5 RADIOLOCATION Amateur	FIXEI RADIG Amate Mobile FIXEI MOBI	DIOCATION ur E EU2 EU17 DI LE OLOCATION	Amateur applications Civil and military radars SAP/SAB applications Amateur applications	EU17A EU17A EU23 EU23	ERC REC 25-10 ERC REC 25-10	EN 301 783 EN 301 783	Low power radars in certain subbands
FIXED MOBILE RADIOLOCATION Amateur	FIXEI RADIG Amate Mobile FIXEI MOBI RADIG Amate	DIOCATION ur E EU2 EU17 DI LE OLOCATION	Amateur applications Civil and military radars SAP/SAB applications Amateur applications Amateur applications	EU17A EU17A EU23 EU23	ERC REC 25-10 ERC REC 25-10 ERC REC 12-05	EN 301 783 EN 301 783	Low power radars in certain subbands

RR Region 1 A RR footnote re CEPT and freq	levant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
10.5 -	10.55 GHz						
FIXED		FIXED	Fixed links		ERC REC 12-05	EN 301 751	
MOBILE		MOBILE Radiolocation	Fixed wireless access systems		ERC REC 13-04	EN 301 753	Including point- to- multipoint
Radiolocation		Radiolocation	Motion sensors		ERC REC 70-03	EN 300 440	
			SAP/SAB applications	EU17A	ERC REC 25-10		
10.55 -	10.6 GHz						
FIXED		FIXED	Fixed links		ERC REC 12-05	EN 301 751	
MOBILE exce Mobile	pt Aeronautical	MOBILE except Aeronautical Mobile	Fixed wireless access systems		ERC REC 13-04	EN 301 753	Including point- to- multipoint
Radiolocation		Radiolocation	Motion sensors		ERC REC 70-03	EN 300 440	
			SAP/SAB applications	EU17A	ERC REC 25-10		
10.6 -	10.65 GHz						
EARTH EXPL SATELLITE (1		EARTH EXPLORATION- SATELLITE (passive)	Fixed links		ERC REC 12-05	EN 301 751	
FIXED	,	FIXED	Fixed wireless access systems		ERC REC 13-04	EN 301 753	Including point- to- multipoint
MOBILE exce Mobile	pt Aeronautical	MOBILE except Aeronautical Mobile	Passive applications				Continuum measurements and VLBI Surface emissivity and precipitation measurements
RADIO ASTR		RADIO ASTRONOMY	SAP/SAB applications	EU17A	ERC REC 25-10		
SPACE RESE. Radiolocation	ARCH (passive)	SPACE RESEARCH (passive) Radiolocation					
5.149		5.149					

RR Region 1 A RR footnote re CEPT and freq	elevant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
10.65 -	10.68 GHz						
EARTH EXPL SATELLITE (1		EARTH EXPLORATION- SATELLITE (passive)	Fixed links		ERC REC 12-05	EN 301 751	
FIXED		FIXED	Passive applications				Continuum measurements and VLBI Surface emissivity and precipitation measurements
MOBILE exception Mobile		MOBILE except Aeronautical Mobile	SAP/SAB applications	EU17A	ERC REC 25-10		
RADIO ASTR SPACE RESEA	ONOMY ARCH (passive)	RADIO ASTRONOMY SPACE RESEARCH (passive)					
Radiolocation 5.149		5.149					
5.482		5.482					
10.68 -	10.7 GHz						
EARTH EXPL SATELLITE (F	passive)	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	Passive applications				Continuum measurements and VLBI Surface emmissivity and precipitation
RADIO ASTR SPACE RESEA	ARCH (passive)	SPACE RESEARCH (passive)					
5.340 5.483		5.340					
10.7 -	11.7 GHz						
	LLITE (S/E) 5.441	FIXED FIXED-SATELLITE (S/E) 5.441	Fixed links		ERC DEC (00)08 ERC REC 12-06	EN 301 751	Limited to high capacity fixed links
(E/S) 5.484 MOBILE excep Mobile	pt Aeronautical	(E/S) 5.484 MOBILE except Aeronautical Mobile	Fixed Satellite Service applications		ERC DEC (00)08	EN 301 427	Within the band 10.7-10.95/11.2-11.45 GHz in accordance with App 30B SIT/SUT - Eureltrack - VSAT
		Land Mobile-satellite (S/E)				EN 301 428 EN 301 430	

EN 301 459 EN 301 360

RR footnote re CEPT and free		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
11.7 -	12.5 GHz						
BROADCAST		BROADCASTING-SATELLITE	Satellite Broadcasting		ERC DEC (00)08		In accordance with App S30
	ΓING-SATELLITE	FIXED					
FIXED	. A	Mobile except Aeronautical Mobile					
5.487	t Aeronautical Mobile	5.487 EU28					
5.487A		5.487A					
5.492		5.492					
12.5 -	12.75 GHz						
FIXED-SATE 5.484A	ELLITE (S/E) (E/S)	FIXED-SATELLITE (S/E) 5.484A	Fixed Satellite Service applications			EN 301 427	Priority for civil networks. Low density carriers, including VSATs and digital
5.495		5.495					SNG are encouraged to use this band VSAT - SIT/SUT
5.496						EN 301 428	
						EN 301 430	
						EN 301 459	
						EN 301 360	
12.75 -	13.25 GHz						
FIXED		FIXED					
	ELLITE (E/S) 5.441	FIXED-SATELLITE (E/S) 5.441	Fixed links		ERC REC 12-02	EN 301 751	
Space Researc	ch (deep space) (S/E)		Fixed Satellite Service applications			EN 301 430	
13.25 -	13.4 GHz						
AERONAUTI		AERONAUTICAL	Doppler Navigation aids				
	GATION 5.497	RADIONAVIGATION 5.497 EARTH EXPLORATION-	Earth exploration observations				
EARTH EXPI SATELLITE (SATELLITE (active)	Ship berthing radars				
	EARCH (active)	SPACE RESEARCH (active)	- F				

5.498A

5.498A

EU26

RR Region 1 Allocation and

R Region 1 Allocation and R footnote relevant to EPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
13.4 - 13.75 GHz						
ARTH EXPLORATION- ATELLITE (active) ADIOLOCATION PACE RESEARCH 5.501A	EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A	Doppler Navigation aids Military land, airborne and naval radars				
andard Frequency and Time gnal-satellite (E/S)		Motion sensors		ERC REC 70-03	EN 300 440	Within 13.4-14.0 GHz
5.499 5.500 5.501 5.501B	5.501B EU2 EU26	Ship berthing radars				
3.75 - 14 GHz						
XED-SATELLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A	Fixed Satellite Service applications			EN 301 430	
ADIOLOCATION pace Research	RADIOLOCATION Space Research	Military land, airborne and naval radars				
andard Frequency and Time gnal-satellite (E/S)				ERC REC 70-03	EN 300 440	Within 13.4-14.0 GHz
5.500	5.502 EU2	Motion sensors Navigation radars				Within 15.4-14.0 G112
5.501	5.503 EU26					Future VLBI ovservations
.502		Ship berthing radars				Tutale (EE) of the fall of th
5.503		omp commis radars				

FIXED-SATELLITE (E/S) 5.484A 5.506	FIXED-SATELLITE (E/S) 5.484A	Mobile satellite systems		EN 301 427	Priority for civil networks
RADIONAVIGATION 5.504	Mobile-Satellite (E/S) except aeronautical mobile-satellite	VSAT/SNG applications	ERC REC 13-03		Low density carriers, including VSATs and digital
Mobile-Satellite (E/S) except	Space Research				SNG, are encouraged to use this band
aeronautical mobile-satellite	Space research			EN 301 430	

Space Research

RR Region 1 A RR footnote re CEPT and freq	elevant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
14.25 -	14.3 GHz						
FIXED-SATEI 5.506 RADIONAVIO	LLITE (E/S) 5.484A GATION 5.504	FIXED-SATELLITE (E/S) 5.484A Mobile-Satellite (E/S) except aeronautical mobile-satellite	Mobile satellite systems			EN 301 427	Priority for civil networks Fixed links to be coordinated with fixed satellite service on a national basis
Mobile-Satellit	obile-satellite	Space Research	VSAT/SNG applications		ERC REC 13-03	EN 301 428 EN 301 430	
Space Research 5.508	n	5.504 5.508					
14.3 -	14.4 GHz						
5.506	LLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A Mobile-Satellite (E/S) except aeronautical mobile-satellite	Fixed and Mobile Satellite Service applications			EN 301 427	Priority for vicil networks Fixed links to be coordinated with fixed satellite services on a national basis
MOBILE exce Mobile Mobile-Satellit aeronautical m Radionavigatio	te (E/S) except obile-satellite		VSAT/SNG applications		ERC REC 13-03	EN 301 428 EN 301 430	
14.4 -	14.47 GHz						
FIXED FIXED-SATEI 5.506 MOBILE exce	LLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A Mobile-Satellite (E/S) except aeronautical mobile-satellite	Fixed and Mobile Satellite Service applications			EN 301 427	Priority for vicil networks Fixed links to be coordinated with fixed satellite services on a national basis
Mobile Mobile-Satellit aeronautical mo	te (E/S) except obile-satellite		VSAT/SNG applications		ERC REC 13-03	EN 301 428 EN 301 430	

RR Region 1 . RR footnote r CEPT and fre		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
14.47 -	14.5 GHz						
5.506	ELLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A Mobile-Satellite (E/S) except aeronautical mobile-satellite Radio Astronomy	Fixed and Mobile Satellite Service applications			EN 301 427	Priority for vicil networks Fixed links to be coordinated with fixed satellite services on a national basis
MOBILE exc Mobile	ept Aeronautical	Radio Astronomy	Radio astronomy applications				Spectral line observations and future VLBI
aeronautical n	ite (E/S) except nobile-satellite		VSAT/SNG applications		ERC REC 13-03	EN 301 428	VSAT&SNG
Radio Astrono 5.149	omy	5.149					
14.5 -	14.8 GHz						
FIXED FIXED-SATE	ELLITE (E/S) 5.510	FIXED MOBILE	Defence systems	EU20			The band 14.62-15.23 GHz is a harmonised military band for fixed and mobile services
MOBILE		Radio Astronomy	Fixed links	EU20	ERC REC 12-07	EN 301 751	
Space Research	ch	EU27	Radio astronomy applications				Future VLBI observations compatible with primary use
14.8 -	15.35 GHz						
FIXED 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	ch	Radio Astronomy	Fixed links	EU20	ERC REC 12-07	EN 301 753	
5.339		5.339 EU27	Radio astronomy applications				Future VLBI observations compatible with primary use
15.35 -	15.4 GHz						
EARTH EXP SATELLITE RADIO ASTI	(passive)	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Passive applications				Continuum measurements and future VLBI
5.340 5.511	22 INC11 (passive)	5.340					

RR footnote i	Allocation and relevant to equency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
15.4 -	15.43 GHz						
AERONAUT RADIONAV		AERONAUTICAL RADIONAVIGATION	Doppler radar low power sensing				
5.511D	IOMION	5.511D	Ground movement radars				
15.43 -	15.63 GHz						
AERONAUT RADIONAV		AERONAUTICAL RADIONAVIGATION					
	ELLITE (E/S) 5.511A	FIXED-SATELLITE (E/S) 5.511A	Fixed Satellite Service applications				MSS feeder links
5.511C		5.511C	Ground movement radars				
15.63 - AERONAUT RADIONAV 5.511D		AERONAUTICAL RADIONAVIGATION 5.511D	Doppler radar low power sensing Ground movement radars				
15.7 -	16.6 GHz						
RADIOLOC. 5.512	ATION	RADIOLOCATION EU27	Defence systems				Harmonised military band for land, airborne and naval radars
16.6 -	17.1 GHz						
	ATION rch (deep space) (E/S)	RADIOLOCATION Space Research (E/S)	Defence systems				Harmonised military band for land, airborne and naval radars
5.512		EU27					

RR Region 1 A RR footnote re CEPT and fre		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
17.1 -	17.2 GHz						
RADIOLOCA	ATION	RADIOLOCATION Mobile	Defence systems				Military radar applications
5.512		EU2	HIPERLANs		ERC REC 70-03 ERC REC T/R 22-06		
17.2 -	17.3 GHz						
EARTH EXP		EARTH EXPLORATION-	Airborne terrain following radars				
SATELLITE (RADIOLOCA	* *	SATELLITE (active) MOBILE	Defence systems				Military radar applications
SPACE RESE	EARCH (active)	RADIOLOCATION SPACE RESEARCH (active)	HIPERLANs		ERC REC 70-03		Mobile application for HIPERLANs which have priority over space services. HIPERLANs cannot claim protection from
5.512		5.513A EU2					radiolocation service
5.513A			Missile systems radars				
17.3 -	17.7 GHz						
FIXED-SATE	ELLITE (E/S) 5.516	FIXED-SATELLITE (E/S) 5.516					
Radiolocation		Radiolocation	Defence systems				Missile systems radars
5.514		EU2	Feeder link plan				Feederl links for 11.7-12.5 GHz. Appendix S30A of RR
17.7 -	18.1 GHz						
FIXED		FIXED	Feeder link plan				Appendix S30A
	ELLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A	Fixed links		ERC DEC (00)07	EN 301 751	
(E/S) 5.516 MOBILE		(E/S) 5.516			ERC REC 12-03		
WOBILE			Fixed Satellite Service applications		ERC DEC (00)07	EN 301 360	To coordinated earth stations Priority for civil networks

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band		European Common Allocation	Utilisation	EU footnote	ectnote ECC ERC Document	Ctan dand	Note
18.1 -	18.3 GHz						
FIXED		FIXED	Feeder link band				
FIXED-SATEL E/S) 5.520	LLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A (E/S) 5.520	Fixed links		ERC REC 12-03	EN 301 751	
MOBILE		METEOROLOGICAL- SATELLITE (S/E)	Fixed Satellite Service applications			EN 301 360	To coordinated earth stations Priority for civil networks
5.519		5.519					
5.521							
18.3 -	18.4 GHz						
FIXED		FIXED	Feeder link band				
FIXED-SATEL (E/S) 5.520	LLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A (E/S) 5.520	Fixed links		ERC REC 12-03	EN 301 751	
MOBILE 5.521		(4.5)	Fixed Satellite Service applications			EN 301 360	To coordinated earth stations Priority for civil networks
	18.6 GHz LLITE (S/E) 5.484A	FIXED FIXED-SATELLITE (S/E) 5.484A	Fixed links		ERC DEC (00)07 ERC REC 12-03	EN 301 751	
MOBILE			Fixed Satellite Service applications		ERC DEC (00)07	EN 301 360	To coordinated earth stations Priority for civil networks
18.6 -	18.8 GHz						
EARTH EXPLO		EARTH EXPLORATION- SATELLITE (passive)	Fixed links		ERC DEC (00)07	EN 301 751	
FIXED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FIXED	Fixed Satellite Service applications		ERC REC 12-03 ERC DEC (00)07	EN 301 360	To coordinated earth stations
	LLITE (S/E) 5.522B	FIXED-SATELLITE (S/E) 5.522B	1 incu Saterite Service applications		Like BLC (00)07	21, 301 300	Priority for civil networks
MOBILE excep Mobile Space Research			Passive applications				EESS surface emmissivity, snow, sea ice at preception. Earth Exploration Satellite is included.
5.522A	. /	5.522A					

RR Region 1 Allocation RR footnote relevant to CEPT and frequency b	to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
18.8 - 19.3	.3 GHz						
FIXED FIXED-SATELLITE (S/	S/E) 5.523A	FIXED FIXED-SATELLITE (S/E) 5.523A	Fixed links		ERC DEC (00)07 ERC REC 12-03	EN 301 751	
MOBILE			Fixed Satellite Service applications		ERC DEC (00)07	EN 301 360	To coordinated earth stations Priority for civil networks
19.3 - 19.7	.7 GHz						
FIXED	.7 3772	FIXED	Fixed links		ERC DEC (00)07	EN 301 751	
FIXED-SATELLITE (S/ 5.523B 5.523C 5.523D 5 MOBILE		FIXED-SATELLITE (S/E) (E/S) 5.523B 5.523C 5.523D 5.523E	Fixed Satellite Service applications		ERC REC 12-03 ERC DEC (00)07	EN 301 360	To coordinated earth stations Priority for civil networks
19.7 - 20.1	.1 GHz						
FIXED-SATELLITE (S/Mobile-Satellite (S/E)	S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A Mobile-Satellite (S/E) 5.525	Fixed and Mobile Satellite Service applications			EN 301 459	For uncoordinated earth stations SUT
20.1 - 20.2	.2 GHz						
FIXED-SATELLITE (S/MOBILE-SATELLITE (FIXED-SATELLITE (S/E) 5.484A MOBILE-SATELLITE (S/E)	Fixed and Mobile Satellite Service applications			EN 301 459	For uncoordinated earth stations SUT
5.525 5.526		5.525 5.526					
5.527 5.528		5.527 5.528					

RR Region 1 A RR footnote re CEPT and freq	elevant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
20.2 -	21.2 GHz						
FIXED-SATEI MOBILE-SAT Standard Frequ Signal-satellite	TELLITE (S/E) uency and Time	FIXED-SATELLITE (S/E) MOBILE-SATELLITE (S/E)	Fixed and Mobile Satellite Service applications				For uncoordinated earth stations Harmonised military band for satellite downlinks
Signar-saternic	5 (3/E)	EU2 EU27					
21.2 -	21.4 GHz						
EARTH EXPL		EARTH EXPLORATION-	Passive applications				Passive systems will be phased out by 2015
SATELLITE (I FIXED MOBILE SPACE RESE.	ARCH (passive)	SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	Unidirectional temporary fixed or mobile links		ERC REC 25-10		Including SAP/SAB
21.4 -	22 GHz						
FIXED	TING-SATELLITE	BROADCASTING-SATELLITE	Wide band high definition television				Fixed service envisaged in some countries
MOBILE 5.530		5.530					
22 -	22.21 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02		
MOBILE exce Mobile	ept Aeronautical	MOBILE except Aeronautical Mobile	Passive applications				Spectral line observations (water line and redshifted water line under 22.5 GHz)
		RADIO ASTRONOMY SPACE RESEARCH (passive)	SAP/SAB applications	EU17A	ERC REC 25-10		
5.149		5.149					

	Allocation and elevant to quency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
22.21 -	22.5 GHz						
EARTH EXPL		FIXED	Fixed links		ERC REC T/R 13-02		
SATELLITE (FIXED	passive)	MOBILE except Aeronautical Mobile	Radio astronomy applications				EESS systems will be phased out by 2015.
	ept Aeronautical	RADIO ASTRONOMY					Spectral line observations (water line and redshifted water line under 22.5 GHz) also V
Mobile		SPACE RESEARCH (passive)	SAP/SAB applications	EU17A	ERC REC 25-10		
RADIO ASTR		Earth Exploration-Satellite (passive					
	ARCH (passive)						
5.149		5.149					
5.532		5.532					
22.5 -	22.55 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02	EN 301 751	
MOBILE		MOBILE	Radio astronomy applications				
		RADIO ASTRONOMY SPACE RESEARCH (passive)	SAP/SAB applications	EU17A	ERC REC 25-10		
22.55 -	22.6 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02		
INTER-SATE	LLITE	MOBILE RADIO ASTRONOMY	Radio astronomy applications				
MOBILE		SPACE RESEARCH (passive)	SAP/SAB applications	EU17A	ERC REC 25-10		
5.149		5.149					
22.6 -	23 GHz						
			Radio astronomy applications				Spectral line observations (Methyl Formate as
FIXED INTER-SATE	LLITE	FIXED MOBILE					Ammonia lines 22.81-22.86 GHz)
FIXED INTER-SATE MOBILE	LLITE		SAP/SAB applications	EU17A	ERC REC 25-10		Ammonia lines 22.81-22.86 GHz)

RR Region 1 RR footnote r CEPT and fre		European Common Allocation	Utilisation EU footno	EU footnote	ECC ERC ote Document	Standard	Note
23 -	23.55 GHz						
FIXED INTER-SATI	EL LITE	FIXED INTER-SATELLITE			ERC REC T/R 13-02		
MOBILE	ELLIE	MOBILE	Radio astronomy applications				Spectral line observations
5.149		5.149	SAP/SAB applications		ERC REC 25-10		
23.55 -	23.6 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02		
MOBILE		INTER-SATELLITE MOBILE	SAP/SAB applications		ERC REC 25-10		
23.6 -	24 GHz						
EARTH EXP SATELLITE RADIO AST	(passive)	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	Passive applications				Continuum observations Ammonia line Water vapout measurements
SPACE RESI 5.340	EARCH (passive)	SPACE RESEARCH (passive) 5.340					
24 -	24.05 GHz						
AMATEUR		AMATEUR	Amateur applications			EN 301 783	
AMATEUR-	SATELLITE	AMATEUR-SATELLITE	Amateur Satellite applications			EN 301 783	
5.150		5.150	ISM				Within 24-24.25 GHz
			Non specific SRD		ERC REC 70-03	EN 300 440	
			SAP/SAB applications		ERC REC 25-10		

R footnote re	Allocation and elevant to equency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
24.05 -	24.25 GHz						
RADIOLOCA	ATION	RADIOLOCATION	Amateur applications				
Amateur		Amateur	Defence systems				
Earth Explorat	tion-Satellite (active)	Earth Exploration-Satellite (active) Fixed	ISM				
		Mobile	Motion sensors		ERC REC 70-03	EN 300 440	
5.150		5.150 EU2	Non specific SRD		ERC REC 70-03	EN 300 440	
			Rain radar from satellites				
			SAP/SAB applications		ERC REC 25-10		
24.25 -	24.45 GHz						
FIXED	XED	FIXED	SAP/SAB applications	EU17A	ERC REC 25-10		
		MOBILE	Unidirectional temporary fixed links				
24.45 -	24.5 GHz						
FIXED		FIXED	SAP/SAB applications	EU17A	ERC REC 25-10		
INTER-SATE	ELLITE	MOBILE	Unidirectional temporary fixed links				
24.5 -	24.65 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02	EN 301 751	
INTER-SATE	ELLITE		Fixed wireless access systems		ERC REC 00-05 ERC REC 13-04	EN 301 753	CRS paired with 25.5-26.5 GHz for FDD system
24.65 -	24.75 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02	EN 301 751	
INTER-SATE	ELLITE		Fixed wireless access systems		ERC REC 00-05 ERC REC 13-04	EN 301 753	CRS paired with 25.5-26.5 GHz for FDD system

RR Region 1 A RR footnote re CEPT and free	elevant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
24.75 -	25.25 GHz						
FIXED		FIXED	Fixed links Fixed wireless access systems		ERC REC T/R 13-02 ERC REC 00-05	EN 301 751 EN 301 753	CRS paired with 25.5-26.5 GHz for FDD systems
					ERC REC 13-04		
25.25 -	25.5 GHz						
FIXED		FIXED	Fixed links		ERC REC T/R 13-02	EN 301 751	
INTER-SATE MOBILE Standard Frequency	LLITE 5.536 Hency and Time	INTER-SATELLITE 5.536 MOBILE	Fixed wireless access systems		ERC REC 00-05 ERC REC 13-04	EN 301 753	CRS paired with 25.5-26.5 GHz for FDD systems
Signal-satellite							
25.5 -	26.5 GHz						
EARTH EXPL		FIXED	Fixed links		ERC REC T/R 13-02	EN 301 751	
FIXED INTER-SATE	S/E) 5.536A 5.536B LLITE 5.536	INTER-SATELLITE 5.536 MOBILE Earth Exploration-Satellite (S/E)	Fixed wireless access systems		ERC REC 00-05 ERC REC 13-04	EN 301 753	TS paried with 24.5-25.5 GHz for FDD systems
MOBILE Standard Frequ Signal-satellite	uency and Time	5.536A 5.536B					
26.5 -	27 GHz						
EARTH EXPI SATELLITE (FIXED	ORATION- S/E) 5.536A 5.536B	FIXED INTER-SATELLITE 5.536 MOBILE	Defence systems				Harmonised military band for fixed and mobile systems
INTER-SATE MOBILE		Earth Exploration-Satellite (S/E) 5.536A 5.536B					
Standard Frequency	ency and Time	EU27					

RR Region 1 A RR footnote re CEPT and freq	levant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
27 -	27.5 GHz						
FIXED INTER-SATEI MOBILE	LLITE 5.536	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-SATEI	LLITE (E/S) 5.484A	FIXED FIXED-SATELLITE (S/E) (E/S) 5.484A 5.539	Feeder link band				Feeder links to Broadcasting satellites (HDTV) 27.5-29.5 GHz
5.539 MOBILE			Fixed links		ERC DEC (00)09 ERC REC T/R 13-02	EN 301 751	Within the band 28.0525-28.4445 GHz
5.538 5.540		5.538 5.540	Fixed Satellite Service applications		ERC DEC (00)09	EN 301 360	The Earth-to-Space direction for uncoordinated earth stationswithin 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
			Fixed wireless access systems		ERC REC 13-04 ERC REC 01-03	EN 301 753	CRS paired with 28.5-29.5 GHz for FDD systems
28.5 -	29.1 GHz						
FIXED		FIXED					Priority for civil networks
5.523A 5.539	LLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A 5.523A 5.539	Feeder link band		ERC DEC (00)09		Feeder links to Broadcasting satellites (HDTV) 27.5-29.5 GHz
MOBILE Earth Explorati 5.541	ion-Satellite (E/S)	Earth Exploration-Satellite (E/S) 5.541	Fixed links		ERC DEC (00)09 ERC REC T/R 13-02	EN 301 751	
5.540		5.540	Fixed Satellite Service applications		ERC DEC (00)09	EN 301 360	Uncoordinated earth stations within the band 28.4445-28.8365 GHz
			Fixed wireless access systems		ERC REC 13-04 ERC REC 01-03	EN 301 753	TS paired with 27.5-28.5 GHz for FDD systems

RR footnote r	Allocation and relevant to equency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
29.1 -	29.5 GHz						
FIXED FIXED-SATI	ELLITE (E/S) 5.523C	FIXED FIXED-SATELLITE (E/S) 5.523C	Feeder link band				Feeder links to Broadcasting satellites (HDTV) 27.5-29.5 GHz
	5A 5.539 5.541A	5.523E 5.535A 5.539 5.541A	Fixed links		ERC REC T/R 13-02	EN 301 751	Within the band 29.0605-29.4525 GHz
Earth Explora	MOBILE Earth Exploration Earth Exploration-Satellite (E/S) 5.541	Earth Exploration-Satellite (E/S) 5.541	Fixed Satellite Service applications		ERC DEC (00)09	EN 301 360	Uncoordinated earth stations within the band 29.4525-29.5 GHz
5.540		5.540	Fixed wireless access systems		ERC REC 13-04 ERC REC 01-03	EN 301 753	TS paired with 27.5-28.5 GHz for FDD systems
29.5 -	29.9 GHz						
FIXED-SATI 5.539	ELLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A 5.539	Fixed and Mobile Satellite Service applications			EN 301 459	For uncoordinated earth stations
Earth Explora 5.541	ation-Satellite (E/S)	Earth Exploration-Satellite (E/S) 5.541					
Mobile-Satell	lite (E/S)	Mobile-Satellite (E/S)					
5.540		5.540					
29.9 -	30 GHz						
FIXED-SATI 5.539	ELLITE (E/S) 5.484A	FIXED-SATELLITE (S/E) (E/S) 5.484A 5.539	Fixed Satellite Service applications		ERC DEC (01)03	EN 301 459	Limited to beacons for uplink power control 29.999-30 GHz
	TELLITE (E/S) ation-Satellite (E/S)	MOBILE-SATELLITE (E/S) Earth Exploration-Satellite (E/S) 5.541	Mobile satellite systems				For uncoordinated earth stations
5.525		5.525					
5.526		5.526					
5.527		5.527					
5.538		5.538					
5.540		5.540					

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
30 - 31 GHz						
FIXED-SATELLITE (E/S) MOBILE-SATELLITE (E/S) Standard Frequency and Time Signal-satellite (S/E)	FIXED-SATELLITE (S/E) (E/S) MOBILE-SATELLITE (E/S)	Fixed and Mobile Satellite Service applications				For uncoordinated earth stations Harmonised military band for satellite uplinks
	EU2					
	EU27					
31 - 31.3 GHz						
FIXED	FIXED	Fixed links		ECC REC 02-02	EN 301 751	
MOBILE	MOBILE	Radio astronomy applications				Continuum measurements
Space Research 5.544 Standard Frequency and Time Signal-satellite (S/E)						
5.149	5.149					
5.545						
31.3 - 31.5 GHz						
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	Passive applications				Continuum measurements
RADIO ASTRONOMY SPACE RESEARCH (passive)	RADIO ASTRONOMY SPACE RESEARCH (passive)	Surface temperature and emissivity, atmospheric attenuation				

R footnote re	Allocation and elevant to quency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
31.5 -	31.8 GHz						
EARTH EXPL		EARTH EXPLORATION-	Fixed links				
ATELLITE (ADIO ASTR		SATELLITE (passive) RADIO ASTRONOMY	Passive applications				Continuum measurements
	ARCH (passive)	SPACE RESEARCH (passive)	Surface temperature and emissivity,				
ixed	ARCH (passive)	Fixed	atmospheric attenuation				
	Aeronautical Mobile	Mobile except Aeronautical Mobile					
5.149		5.149					
5.546		5.546					
31.8 -	32 GHz						
IXED 5.547 <i>F</i>	A	FIXED 5.547A					Space research (deep space) in come countries
ADIONAVI		RADIONAVIGATION	High density fixed links		ERC REC 01-02	EN 301 751	Both Point-to-Point and Point-to-Multipoint
PACE RESE 5/E)	ARCH (deep space)	SPACE RESEARCH (S/E)				EN 301 753	
5.547		5.547					
5.548		5.548					
32 -	32.3 GHz						
IXED 5.547 <i>F</i>	A	FIXED 5.547A					Space research (deep space) in come countrie
NTER-SATE		INTER-SATELLITE	High density fixed links		ERC REC 01-02	EN 301 751	Both Point-to-Point and Point-to-Multipoint
ADIONAVI PACE RESE	GATION ARCH (deep space)	RADIONAVIGATION SPACE RESEARCH (S/E)				EN 301 753	
5/E)							
5.547		5.547					
5.548		5.548					
32.3 -	33 GHz						
XED 5.547 <i>F</i>	A	FIXED 5.547A	High density fixed links		ERC REC 01-02	EN 301 751	Both Point-to-Point and Point-to-Multipoint
		DIMED GAMELLIME	<i>G</i>			EN 201 752	•

5.548

INTER-SATELLITE

RADIONAVIGATION

INTER-SATELLITE

5.547

5.548

RADIONAVIGATION

EN 301 753

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band		European Common Allocation	Allocation Utilisation EU footnote			Standard	Note
33 -	33.4 GHz						
FIXED 5.547A RADIONAVIGATION		FIXED 5.547A INTER-SATELLITE RADIONAVIGATION	High density fixed links		ERC REC 01-02	EN 301 751 EN 301 753	Both Point-to-Point and Point-to-Multipoint
5.547		5.547					
33.4 -	34.2 GHz						
RADIOLOCATION 5.549	RADIOLOCATION EU2 EU27	Defence systems Motion sensors				Harmonised military band for radiolocation systems	
		2027	Short range radar Surveying and measurement				
34.2 -	34.7 GHz						
	ATION EARCH (deep space)	RADIOLOCATION SPACE RESEARCH (E/S)	Defence systems				Harmonised military band for radiolocation systems
(E/S) 5.549		EU2	Motion sensors Short range radar				
		EU27	Surveying and measurement				
34.7 -	35.2 GHz						
RADIOLOCA Space Research		RADIOLOCATION Space Research	Defence systems				Harmonised military band for radiolocation systems
5.549		EU2	Motion sensors				
5.550		EU27	Short range radar				
			Surveying and measurement				

CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
35.2 - 35.5 GHz						
METEOROLOGICAL AIDS RADIOLOCATION	METEOROLOGICAL AIDS RADIOLOCATION	Defence systems				Harmonised military band for radiolocation systems
5.549	EU2	Rain radar from satellites				
	EU27					
35.5 - 36 GHz						
EARTH EXPLORATION- SATELLITE (active)	SATELLITE (active)	Defence systems				Harmonised military band for Radiolocaiton systems
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS RADIOLOCATION	Rain radar from satellites				
RADIOLOCATION SPACE RESEARCH (active)	SPACE RESEARCH (active)					
5.549	5.551A EU2					
5.551A	EU27					
36 - 37 GHz						
	EARTH EXPLORATION- SATELLITE (passive)	Defence systems				Harmonised military band for fixed and mobile systems.
SATELLITE (passive) FIXED		Passive applications				-
SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy	Passive applications				systems. EESS surface emmissivity, snow, sea ice and preception. Hydrogen cyanide and Hydroxil lines 36.43-36.: GHz
EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 37 - 37.5 GHz	SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	Passive applications				systems. EESS surface emmissivity, snow, sea ice and preception. Hydrogen cyanide and Hydroxil lines 36.43-36.5
SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149	SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy	Passive applications Radio astronomy applications				systems. EESS surface emmissivity, snow, sea ice and preception. Hydrogen cyanide and Hydroxil lines 36.43-36.5
SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 37 - 37.5 GHz FIXED MOBILE	SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy 5.149 EU27	Passive applications Radio astronomy applications High density fixed links Low and medium capacity fixed		ERC REC T/R 12-01	EN 301 751	systems. EESS surface emmissivity, snow, sea ice and preception. Hydrogen cyanide and Hydroxil lines 36.43-36.: GHz
SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 37 - 37.5 GHz	SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy 5.149 EU27 FIXED	Passive applications Radio astronomy applications High density fixed links Low and medium capacity fixed links		ERC REC T/R 12-01	EN 301 751	systems. EESS surface emmissivity, snow, sea ice and preception. Hydrogen cyanide and Hydroxil lines 36.43-36.5 GHz For civil applications

RR Region 1 A RR footnote re CEPT and free	elevant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
37.5 -	38 GHz						
FIXED FIXED-SATE	LLITE (S/E)	FIXED FIXED-SATELLITE (S/E)	Fixed Satellite Service applications		ERC DEC (00)02		Uncoordinated Earth stations shall not claim protection from the Fixed Service
MOBILE SPACE RESE	ARCH (S/E)	SPACE RESEARCH (S/E) Earth Exploration-Satellite (S/E)	High density fixed links		ERC DEC (00)02 ERC REC T/R 12-01	EN 301 751	For civil applications
Earth Explorat 5.547 5.551AA	cion-Satellite (S/E)	5.547 EU2 5.551AA	Low capacity fixed links				For military appleiations
38 -	39.5 GHz						
FIXED FIXED-SATE	LLITE (S/E)	FIXED FIXED-SATELLITE (S/E)	Fixed Satellite Service applications		ERC DEC (00)02		Uncoordinated Earth stations shall not claim protection from the Fixed Service
MOBILE Earth Explorat	ion-Satellite (S/E)	Earth Exploration-Satellite (S/E)	High density fixed links		ERC DEC (00)02 ERC REC T/R 12-01	EN 301 751	For civil applications
5.547		5.547 EU2	Low capacity fixed links				For military applications
5.551AA		5.551AA	Unplaned, uncoordinated use				Within the sub bands 37-37.142 GHz apired with 38.26-38.402 GHz subject to national decisions
39.5 -	40 GHz						
FIXED FIXED-SATE	LLITE (S/E)	FIXED FIXED-SATELLITE (S/E)					
MOBILE	LLITE (S/E)	MOBILE	Fixed Satellite Service applications		ERC DEC (00)02		Coordinated and uncoordinated earth stations
MOBILE-SAT Earth Explorat	TELLITE (S/E) tion-Satellite (S/E)	MOBILE-SATELLITE (S/E) Earth Exploration-Satellite (S/E)					
5.547 5.551AA		5.547 EU2 5.551AA					

R footnote re EPT and free	elevant to quency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
40 -	40.5 GHz						
EARTH EXPLORATION-		FIXED	Broadband mobile systems				Possible future band
SATELLITE (FIXED	ATELLITE (E/S) IXED	FIXED-SATELLITE (S/E) MOBILE	Fixed Satellite Service applications		ERC DEC (00)02		Coordinated and uncoordinated earth stations
TIXED-SATE	LLITE (S/E)	MOBILE-SATELLITE (S/E)					
MOBILE		SPACE RESEARCH (E/S)					
	TELLITE (S/E)	Earth Exploration-Satellite (S/E)					
SPACE RESE							
Earth Explorat	tion-Satellite (S/E)	EU2					
40.5 -	41 GHz						
BROADCAST	ΓING	BROADCASTING	Fixed Satellite Service applications		ECC DEC (02)04		
BROADCAST FIXED	ΓING-SATELLITE	BROADCASTING-SATELLITE FIXED	Multimedia Wireless Systems MWS		ERC DEC (99)15 ECC REC 01-04	EN 301 753	
FIXED-SATE Mobile	LLITE (S/E)						
5.547		5.547					
41 -	42 GHz						
BROADCAST		BROADCASTING	Fixed Satellite Service applications		ECC DEC (02)04		
BROADCAST	ΓING-SATELLITE	BROADCASTING-SATELLITE	Multimadia Wiralass Systems MWS		ERC DEC (99)15	EN 301 751	

BROADCASTING	BROADCASTING	Fixed Satellite Service applications	ECC DEC (02)04	
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	Multimedia Wireless Systems MWS	ERC DEC (99)15	EN 301 751
FIXED	FIXED	,	ECC REC 01-04	EN 301 753
FIXED-SATELLITE (S/E)				

Mobile 5.547

5.547 5.547

5.551G

R Region 1 Allocation and R footnote relevant to EPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
42 - 42.5 GHz						
BROADCASTING	BROADCASTING	Fixed Satellite Service applications		ECC DEC (02)04		
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	Multimedia Wireless Systems MWS		ERC DEC (99)15	EN 301 751	
IXED	FIXED			ECC REC 01-04	EN 301 753	
IXED-SATELLITE (S/E)						
fobile						
5.547						
5.551AA 5.551G						
42.5 - 43.5 GHz						
IXED	FIXED	Broadband mobile systems				Possible future band
TXED-SATELLITE (E/S) 5.552 MOBILE except Aeronautical	FIXED-SATELLITE (E/S) 5.552 MOBILE except Aeronautical Mobile	Fixed Satellite Service applications		ECC DEC (02)04		For fixed applications Priority for civil networks
Mobile ASTRONOMY	RADIO ASTRONOMY	Multimedia Wireless Systems MWS		ERC DEC (99)15	EN 301 753	
ADIO ASTRONOMY				ECC REC 01-04		
5.149 5.547	5.149 5.547	Radio astronomy applications				Silicon monoxide lines and many other spect lines in this band
5.547	5.547	radio astronomy appreciations				

MOBILE 5.553	MOBILE 5.553		Radionavigation envisaged in some countries
MOBILE-SATELLITE	MOBILE-SATELLITE	Defence systems	Harmonised military band for satellite uplinks and
RADIONAVIGATION	Fixed-Satellite		mobile systems
RADIONAVIGATION- SATELLITE			

5.554

EU27

RR Region 1 A RR footnote re CEPT and freq	elevant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
45.5 -	47 GHz						
MOBILE 5.55 MOBILE-SAT RADIONAVIO RADIONAVIO SATELLITE 5.554	FELLITE GATION	MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE 5.554					
47 -	47.2 GHz						
AMATEUR		AMATEUR	Amateur applications			EN 301 783	
AMATEUR-S.	SATELLITE	AMATEUR-SATELLITE	Amateur Satellite applications			EN 301 783	
47.2 -	48.5 GHz						
FIXED		FIXED	Feeder link band				For 40 GHz broadcasting satellites
FIXED-SATE MOBILE	LLITE (E/S) 5.552	FIXED-SATELLITE (E/S) 5.552 MOBILE	Fixed Satellite Service applications				For fixed applications Priority for civil networks
5.149		Amateur 5.552A	HAPS				Within the band 47.2-47.5 and 47.9-48.2 GHz
5.552A 5.555		5.555 5.555	SAP/SAB applications		ERC REC 25-10		
48.5 -	50.2 GHz						
FIXED		FIXED	Feeder link band				For 40 GHz broadcasting satellites 48.5-49.2 GHz
FIXED-SATE	LLITE (E/S) 5.552	FIXED-SATELLITE (E/S) 5.552 MOBIL F	Fixed Satellite Service applications				For fixed applications

MOBILE

5.149

5.340

5.552A

5.555

MOBILE

5.149

5.340

5.555

RADIO ASTRONOMY

EU17A

ERC REC 25-10

ERC REC 12-10

Low and medium capacity fixed

Radio astronomy applications

SAP/SAB applications

links

Carbon monosulphide line 48.94-49.4 GHz

Priority for civil networks

EN 301 751

R footnote re EPT and freq		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
50.2 -	50.4 GHz						
EARTH EXPL SATELLITE (_J		EARTH EXPLORATION- SATELLITE (passive)	Passive applications				
SPACE RESEA	ARCH (passive)	SPACE RESEARCH (passive)					
5.340 5.555A		5.340					
50.4 -	51.4 GHz						
FIXED FIXED-SATEI MOBILE	LLITE (E/S)	FIXED FIXED-SATELLITE (E/S) Mobile-Satellite (E/S)	Future satellite and terrestrial systems				Shared civil and non civil allocation
Mobile-Satellit	te (E/S)	EU2					
Mobile-Satellit	52.6 GHz	EU2					
51.4 -		EU2 FIXED	High density fixed links		ERC REC 12-11	EN 301 751	
51.4 -		FIXED MOBILE	High density fixed links				
51.4 - FIXED MOBILE		FIXED MOBILE RADIO ASTRONOMY	High density fixed links				
51.4 -		FIXED MOBILE	High density fixed links				
FIXED MOBILE 5.547		FIXED MOBILE RADIO ASTRONOMY 5.547	High density fixed links				
51.4 - FIXED MOBILE 5.547 5.556	52.6 GHz 54.25 GHz	FIXED MOBILE RADIO ASTRONOMY 5.547	High density fixed links Passive applications				Atmospheric temperature sounding
51.4 - FIXED MOBILE 5.547 5.556 52.6 - EARTH EXPL SATELLITE (F	52.6 GHz 54.25 GHz	FIXED MOBILE RADIO ASTRONOMY 5.547 5.556	Passive applications				
51.4 - FIXED MOBILE 5.547 5.556 52.6 - EARTH EXPL SATELLITE (F	52.6 GHz 54.25 GHz ORATION-passive)	FIXED MOBILE RADIO ASTRONOMY 5.547 5.556 EARTH EXPLORATION- SATELLITE (passive)	Passive applications				

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
54.25 - 55.78 GHz						
EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive)	Passive applications				Atmospheric temperature sounding
55.78 - 56.9 GHz						
EARTH EXPLORATION- SATELLITE (passive) FIXED 5.557A	EARTH EXPLORATION- SATELLITE (passive) FIXED 5.557A	High density fixed links		ERC REC T/R 22-03 ERC REC 12-12	EN 301 751	
INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)	INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	Passive applications				
5.547	5.547 EU21 5.558					
56.9 - 57 GHz						
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	High density fixed links		ERC REC T/R 22-03 ERC REC 12-12	EN 301 751	
FIXED INTER-SATELLITE 5.558A SPACE RESEARCH (passive)	FIXED MOBILE 5.558 SPACE RESEARCH (passive)	Passive applications				Atmospheric temperature sounding
5.547	5.547 EU21					

5.558A

RR Region 1 RR footnote r CEPT and fre		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
57 -	58.2 GHz						
SATELLITE	PLORATION- (passive)	EARTH EXPLORATION- SATELLITE (passive)	High density fixed links		ERC REC 12-09 ERC REC T/R 22-03	EN 301 751	
FIXED INTER-SATI	ELLITE 5.556A	FIXED INTER-SATELLITE 5.556A	Passive applications				Atmospheric temperature sounding
MOBILE 5.5		MOBILE 5.558					
SPACE RES	EARCH (passive)	SPACE RESEARCH (passive)					
5.547		5.547					
58.2 -	59 GHz						
EARTH EXP	PLORATION- (passive)	EARTH EXPLORATION- SATELLITE (passive)	High density fixed links		ERC REC 12-09 ERC REC T/R 22-03	EN 301 751	
FIXED		FIXED	Passive applications				Atmospheric temperature sounding
MOBILE		RADIO ASTRONOMY SPACE RESEARCH (passive)					
	EARCH (passive)	*					
5.547 5.556		5.547 EU6 5.556 EU19					
59 -	59.3 GHz						
EARTH EXP SATELLITE FIXED	PLORATION- (passive)	EARTH EXPLORATION- SATELLITE (passive) FIXED	Defence systems				Frequency band 59-61 GHz is a harmonised military band for fixed, mobile and readiolocation systems
	ELLITE 5.556A	INTER-SATELLITE 5.556A	Passive applications				Atmospheric temperature sounding
MOBILE 5.5		MOBILE 5.558 RADIOLOCATION 5.559					

SPACE RESEARCH (passive)

SPACE RESEARCH (passive)

EU2 EU27

R footnote rele EPT and frequ		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
59.3 -	62 GHz						
FIXED		FIXED	Cordless local area networks				
INTER-SATELL MOBILE 5.558		INTER-SATELLITE MOBILE 5.558	Defence systems				Frequency band 59-61 GHz is a harmonised military band for fixed, mobile and readiolocati systems
RADIOLOCATI	ION 5.559	RADIOLOCATION 5.559	Wala Janaira Kanad Kala		ERC REC T/R 22-03		systems
5.138		EU2	High density fixed links				
		5.138 EU27					
			Non specific SRD		ERC REC 70-03		Within the band 61-61.5 GHz
62 -	63 GHz						
FIXED		INTER-SATELLITE	Broadband mobile systems		ERC REC T/R 22-03		For connection to IBCN paired with 65-66 GHz
INTER-SATELI	JTE	MOBILE 5.558	Short range non civil radiolocation				
MOBILE 5.558	(O) 5 550	RADIOLOCATION 5.559					
RADIOLOCATI 5.138	ION 5.559	EU2					
63 -	64 GHz						
FIXED		INTER-SATELLITE	RTTT		ECC DEC (02)01		Road Transport and Traffic Telematic
INTER-SATELL	LITE	MOBILE 5.558			. ,		Vehicle to road/vehicle to vehicle
MOBILE 5.558		RADIOLOCATION 5.559			ERC REC 70-03		
RADIOLOCATI	ION 5.559		Short range non civil radiolocation				
5.138							
64 -	65 GHz						
FIXED		FIXED	High density fixed links		ERC REC T/R 22-03		
INTER-SATELL		INTER-SATELLITE					
MOBILE except Mobile	Aeronautical	MOBILE except Aeronautical Mobile					
5.547		5.447					
5.556		5.556					

RR Region 1 Allocation and ECC ERC RR footnote relevant to Standard Note **European Common Allocation** Utilisation EU footnote CEPT and frequency band Document 65 -66 GHz EARTH EXPLORATION-EARTH EXPLORATION-Broadband mobile systems ERC REC T/R 22-03 For connection to IBCN paired with 62-63 GHz SATELLITE SATELLITE High density fixed links ERC REC T/R 22-03 FIXED FIXED INTER-SATELLITE INTER-SATELLITE MOBILE except Aeronautical MOBILE except Aeronautical Mobile Mobile SPACE RESEARCH SPACE RESEARCH 5.547 5.547 71 GHz 66 -INTER-SATELLITE INTER-SATELLITE Future civil systems MOBILE 5.553 5.558 MOBILE 5.553 5.558 MOBILE-SATELLITE MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION RADIONAVIGATION-RADIONAVIGATION-SATELLITE SATELLITE 5.554 5.554

71 -74 GHz

FIXED FIXED Harmonised military band. Defence systems Pairing with 81-84 GHz is envisaged FIXED-SATELLITE (S/E) FIXED-SATELLITE (S/E)

MOBILE MOBILE-SATELLITE (S/E) MOBILE-SATELLITE (S/E)

MOBILE

EU27

RR footnote i	Allocation and relevant to equency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note	
74 -	75.5 GHz							
BROADCAS BROADCAS FIXED FIXED-SATI MOBILE Space Resear 5.561	STING-SATELLITE ELLITE (S/E)	BROADCASTING BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (S/E) MOBILE Space Research (S/E) 5.561	Future civil systems Space science services				VLBI within the band 74-84 GHz	
BROADCAS		BROADCASTING	Amateur applications			EN 301 783	Until 2006	
	STING-SATELLITE	BROADCASTING-SATELLITE FIXED	Future civil systems					
FIXED FIXED-SATI MOBILE Space Reseau 5.559A		FIXED-SATELLITE (S/E) MOBILE Space Research (S/E) 5.559A EU2	Space science services				VLBI	
5.561 76 -	77.5 GHz	5.561						

Amateur Satellite applications EN 301 783 RADIOLOCATION RADIOLOCATION Amateur Amateur Civil radioloction Amateur-Satellite Amateur-Satellite Radio astronomy applications Spect Spectral line and wide band continuum Space Research (S/E) Space Research (S/E) observations 5.149 5.149 EU2 ECC DEC (02)01 Road Transport and Traffic Telematic RTTT 76-77 GHz Radar ERC REC 70-03

RR Region 1 All RR footnote rele CEPT and frequ	evant to	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
77.5 -	78 GHz						
AMATEUR AMATEUR-SA Radio Astronom		AMATEUR AMATEUR-SATELLITE Radio Astronomy	Radio astronomy applications				Spectral line and wide band continuum observations
Space Research	-	Space Research (S/E)					
5.149		5.149					
78 -	79 GHz						
RADIOLOCAT	TON	RADIOLOCATION	Civil and military radiolocation				
Amateur Amateur-Satellit	te	Amateur Amateur-Satellite	Radio astronomy applications				Spectral line and wide band continuum observations
Radio Astronom		Radio Astronomy					Observations
Space Research	(S/E)	Space Research (S/E)					
5.149		5.149					
5.560		5.560					
79 -	81 GHz						
RADIO ASTRO		RADIO ASTRONOMY	Civil and military radiolocation				
RADIOLOCAT Amateur	TON	RADIOLOCATION Amateur	Radio astronomy applications				Spectral line and wide band continuum observations
Amateur-Satellit Space Research		Amateur-Satellite Space Research (S/E)					

5.149

EU2

RR Region 1 Allocation and

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
81 - 84 GHz						
FIXED FIXED-SATELLITE (E/S)	FIXED FIXED-SATELLITE (E/S)	Defence systems				Harmonised military band. Paring with 71-74 GHz is envisaged
MOBILE MOBILE-SATELLITE (E/S) RADIO ASTRONOMY Space Research (S/E)	MOBILE MOBILE-SATELLITE (E/S) RADIO ASTRONOMY Space Research (S/E)	Radio astronomy applications				Spectral line and wide band continuum observations
5.149 5.560A	5.149 EU27 5.560A					
84 - 86 GHz						
FIXED FIXED-SATELLITE (E/S) 5.561A MOBILE	FIXED FIXED-SATELLITE (E/S) 5.561A MOBILE	Future civil fixed and mobile systems				
RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149	Radio astronomy applications				Spectral line and wide band continuum observations
86 - 92 GHz						
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	Passive applications				Continuum and spectral line measurements
RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340					
5.5 10	5.5 10					
92 - 94 GHz						
FIXED MOBILE	FIXED MOBILE	Radio astronomy applications				Diazenylium line and numerous other rspectral lines including wide band continuum observation
RADIO ASTRONOMY RADIOLOCATION	RADIO ASTRONOMY RADIOLOCATION	Short range radar				

5.149

EU2

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band

European Common Allocation

Utilisation

EU footnote

ECC ERC Document

Standard

Note

Spectral line and wide band continuum

94.1 GHz 94 -

EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio Astronomy

Cloud profiler radar Short range radar

Radio Astronomy

5.562 5.562 EU2 5.562A 5.562A

94.1 -95 GHz

FIXED MOBILE RADIO ASTRONOMY

MOBILE RADIO ASTRONOMY RADIOLOCATION RADIOLOCATION 5.149 5.149 EU2

FIXED

FIXED

MOBILE

SATELLITE

RADIO ASTRONOMY

RADIONAVIGATION

RADIONAVIGATION-

EU2

RADIOLOCATION

Radio astronomy applications

Short range radar

95 -100 GHz

FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION

RADIONAVIGATION-SATELLITE

5.149 5.149 5.554 5.554

Radio astronomy applications Multiple line observations including wide band continuum observations.

RR Region 1 A RR footnote ro CEPT and fre		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
100 -	102 GHz						
EARTH EXP		EARTH EXPLORATION-	Earth Exploration Satellite systems				Limb sounding of atmospheric constituents
SATELLITE (RADIO ASTE	RONOMY	SATELLITE (passive) RADIO ASTRONOMY	Radio astronomy applications				Spectral line and wide band continuum observations
	EARCH (passive)	SPACE RESEARCH (passive)					
5.340		5.340					
5.341		5.341					
102 -	105 GHz						
FIXED		FIXED	Radio astronomy applications				Spectral line and wide band continuum
MOBILE		MOBILE DADIO ASTRONOMY					observations
RADIO ASTI	RONOMY	RADIO ASTRONOMY					
5.149		5.149					
5.341		5.341					
105 -	109.5 GHz						
FIXED		FIXED					
MOBILE		MOBILE					
RADIO ASTI		RADIO ASTRONOMY SPACE RESEARCH (passive)					
SPACE RESE 5.562B	EARCH (passive)	5.562B					
5.149		5.149					
5.341		5.341					
109.5 -	111.8 GHz						
103.5 -	TTT.0 GHZ						
EARTH EXP		EARTH EXPLORATION- SATELLITE (passive)	Radio astronomy applications				Observations of CO lines at 109.8 and 110.2 GHz and for continuum observations
RADIO ASTI	RONOMY	RADIO ASTRONOMY					
SPACE RESE	EARCH (passive)	SPACE RESEARCH (passive)					

5.341

5.340

RR footnote relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
111.8 - 114.25 GHz						
FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341					
114.25 - 116 GHz						
EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Radio astronomy applications				Observations of the 115.3 GHz CO line
5.340 5.341	5.340 5.341					
116 - 119.98 GHz						
EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562C	EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562C	Passive applications				Passive sensing as part of the oxygen absorption band with peak at 118.75 GHz
SPACE RESEARCH (passive) 5.341	5.341					
119.98 - 120.02 GHz						

12 February 2003

EARTH EXPLORATION-

INTER-SATELLITE 5.562C SPACE RESEARCH (passive)

SATELLITE (passive)

EARTH EXPLORATION-

SPACE RESEARCH (passive)

SATELLITE (passive) INTER-SATELLITE 5.562C

5.341

Passive applications

Passive sensing as part of the oxygen absorption

band with peak at 118.75 GHz

RR Region 1 Alloca	ition and
RR footnote relevan	nt to
CEPT and frequence	cy band

European Common Allocation

Utilisation

EU footnote

ECC ERC

Document

Standard

Note

120.02 - 122.25 GHz

EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)

Passive applications

Passive sensing as part of the oxygen absorption band with peak at 118.75 GHz

122.25 - 123 GHz

FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138

5.138

FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138

5.138

Amateur applications EN 301 783

Amateur Satellite applications EN 301 783

Non specific SRD ERC REC 70-03

123 - 126 GHz

FIXED-SATELLITE (S/E)
MOBILE-SATELLITE (S/E)
RADIONAVIGATION
RADIONAVIGATIONSATELLITE
Radio Astronomy

5.554

FIXED-SATELLITE (S/E) MOBILE-SATELLITE (S/E) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.554

126 - 130 GHz

FIXED-SATELLITE (S/E)
MOBILE-SATELLITE (S/E)
Radio Astronomy 5.562D
RADIONAVIGATION
RADIONAVIGATIONSATELLITE
5.149

FIXED-SATELLITE (S/E)
MOBILE-SATELLITE (S/E)
RADIONAVIGATION
RADIONAVIGATIONSATELLITE
Radio Astronomy
5.149

R Region 1 Allocation and R footnote relevant to EPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
130 - 134 GHz						
RTH EXPLORATION- TELLITE (active) 5.562E	EARTH EXPLORATION- SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY	Radio astronomy applications				Spectral line and wide band continuum observations
TIXED NTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY						
5.149 5.562A	5.149 5.562A					
134 - 136 GHz						
AMATEUR	AMATEUR	Amateur applications			EN 301 783	
MATEUR-SATELLITE adio Astronomy	AMATEUR-SATELLITE Radio Astronomy	Amateur Satellite applications			EN 301 783	
Radio Astronomy	Radio Astronomy					
tadio Astronomy 136 - 141 GHz	Kadio Astronomy					
136 - 141 GHz RADIO ASTRONOMY	RADIO ASTRONOMY	Amateur applications			EN 301 783	
136 - 141 GHz RADIO ASTRONOMY RADIOLOCATION	RADIO ASTRONOMY RADIOLOCATION	Amateur applications				
136 - 141 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite	Amateur applications Amateur Satellite applications			EN 301 783	Spectral line and wide band continuum observations
136 - 141 GHz RADIO ASTRONOMY RADIOLOCATION Amateur	RADIO ASTRONOMY RADIOLOCATION Amateur	Amateur applications Amateur Satellite applications			EN 301 783	Spectral line and wide band continuum
136 - 141 GHZ RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149 141 - 148.5 GHZ FIXED	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149 FIXED	Amateur applications Amateur Satellite applications			EN 301 783	Spectral line and wide band continuum
136 - 141 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149 141 - 148.5 GHz	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149	Amateur applications Amateur Satellite applications Radio astronomy applications			EN 301 783	Spectral line and wide band continuum observations Spectral line and wide band continuum

RR Region 1 RR footnote r CEPT and fre		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
148.5 -	151.5 GHz						
SATELLITE RADIO AST		EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive applications				Harmonised reference window for passive sensor observations
151.5 -	155.5 GHz						
FIXED MOBILE RADIO AST RADIOLOCA 5.149		FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	Radio astronomy applications				Spectral line and wide band continuum observations
155.5 -	158.5 GHz						
	PLORATION-	EARTH EXPLORATION-	Earth Exploration Satellite systems				Protection until 1.1.2018.
FIXED	(passive) 5.562F	SATELLITE (passive) FIXED	Radio astronomy applications				Spectral line and wide band continuum observations
MOBILE RADIO AST	PONOMY	MOBILE RADIO ASTRONOMY					
	EARCH (passive)	SPACE RESEARCH (passive) 5.562B					
5.149		5.149					
5.562G		5.562G					
158.5 -	164 GHz						
FIXED		FIXED					
FIXED-SATI MOBILE	ELLITE (S/E)	FIXED-SATELLITE (S/E) MOBILE					
MOBILE		MODILL					

MOBILE-SATELLITE (S/E)

MOBILE-SATELLITE (S/E)

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band

European Common Allocation

Utilisation

EU footnote

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Document

Standard

Note

164 - 167 GHz

EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)

5.340

EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)

5.340

Passive applications

Harmonised reference window for passive sensor observations of the 183.31 GHz water vapor line. Microwave limb sounding of the 164.38 GHz CO line

167 - 168 GHz

FIXED FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

FIXED
FIXED-SATELLITE (S/E)
INTER-SATELLITE
MOBILE 5.558

168 - 170 GHz

FIXED FIXED

FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

5.149

FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

5.149

170 - 174.5 GHz

FIXED FIXED

FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

FIXED-SATELLITE (S/E)

INTER-SATELLITE

MOBILE 5.558

5.149 5.149

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
174.5 - 174.8 GHz						
FIXED INTER-SATELLITE MOBILE 5.558	FIXED INTER-SATELLITE MOBILE 5.558	Passive applications				Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz
174.8 - 182 GHz						
EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	Passive applications				Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz
182 - 185 GHz						
EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563	Passive applications				Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz
185 - 190 GHz						
EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	Passive applications				Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz

R Region 1 Allocation and R footnote relevant to EPT and frequency band	European Common Allocation	Utilisation EU footnote	ECC ERC Document	Standard	Note	
190 - 191.8 GHz						
EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340	Passive applications				Passive sensing of the water vapour absorption line whose peak is at 183.31 GHz
191.8 - 200 GHz						
FIXED	FIXED					
NTER-SATELLITE	INTER-SATELLITE MOBILE 5.558					
MOBILE 5.558	MOBILE 5.538 MOBILE-SATELLITE					
MOBILE-SATELLITE RADIONAVIGATION	RADIONAVIGATION					
RADIONAVIGATION- SATELLITE	RADIONAVIGATION- SATELLITE					
5.149	5.149					
5.341	5.341					
5.554	5.554					

200	202	~!!-
200 -	202	GHZ

5.563A

EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	Earth exploration observations	Atmospheric chemistry (limb sounding) and atmospheric remote sensing of nitrous oxide at 201 GHz.
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Radio astronomy applications	Spectral line and wide band continuum
5.340	5.340		observations
5.341	5.341		

5.563A

202 -		European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
202 -	209 GHz						
EARTH EXPLORA SATELLITE (passi RADIO ASTRONO SPACE RESEARC	ve) DMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Earth exploration observations				Atmospheric chemistry (limb sounding) and atmospheric remote sensing of water vapor at 203.4 GHz and ozone at 208.5 GHz.
5.340		5.340					
5.341		5.341					
5.563A		5.563A					
209 -	217 GHz						
FIXED FIXED-SATELLIT	E (E/S)	FIXED FIXED-SATELLITE (E/S)	Radio astronomy applications				Spectral line and wide band continuum observations
MOBILE		MOBILE RADIO ASTRONOMY					
RADIO ASTRONO 5.149	OMY	5.149					
5.341		5.341					
217 -	226 GHz						
FIXED		FIXED					
FIXED-SATELLIT	E (E/S)	FIXED-SATELLITE (E/S)					
MOBILE		MOBILE RADIO ASTRONOMY					
RADIO ASTRONO SPACE RESEARC 5.562B		SPACE RESEARCH (passive) 5.562B					
5.149		5.149					
5.341		5.341					
226 - 2	31.5 GHz						
EARTH EXPLORA SATELLITE (passi RADIO ASTRONO SPACE RESEARC	ve) DMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Passive applications				Passive sensors for limb sounding of atmospheric constituents. Reference window for higher frequency water vapor measurements
5.340	11 (passive)	5.340	Radio astronomy applications				Observations of the 230.5 GHz CO line

RR Region 1 Allocation and

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band

European Common Allocation

Utilisation

EU footnote

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Note

231.5 - 232 GHz

FIXED FIXED

MOBILE MOBILE

Radiolocation Radiolocation

232 - 235 GHz

FIXED FIXED

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

MOBILE MOBILE
Radiolocation Radiolocation

235 - 238 GHz

EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (S/E) SPACE RESEARCH (passive)

5.563A 5.563B

238 - 240 GHz

FIXED FIXED

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

MOBILE MOBILE

RADIOLOCATION RADIONAVIGATION
RADIONAVIGATION RADIONAVIGATIONRADIONAVIGATION-

SATELLITE SATELLITE

Passive applications Passive sensing limited to microwave sounding .

Radio astronomy applications Spectral line and wide band continuum observations

RR footnote re	Allocation and elevant to quency band	European Common Allocation	Utilisation	EU footnote	ECC ERC Document	Standard	Note
240 -	241 GHz						
FIXED MOBILE		FIXED MOBILE					
RADIOLOCA	ATION	RADIOLOCATION					
241 -	248 GHz						
RADIO ASTR	RONOMY	RADIO ASTRONOMY	Amateur applications			EN 301 783	
RADIOLOCA	OLOCATION RADIOLOCATION		Amateur Satellite applications			EN 301 783	
Amateur	n.	Amateur Amateur-Satellite	Non specific SRD		ERC REC 70-03		
Amateur-Satel 5.138	llite	5.138	Radio astronomy applications				Spectral line and wide band continuum
5.149		5.149					observations
248 -	250 GHz						
AMATEUR		AMATEUR	Amateur applications			EN 301 783	
AMATEUR-S		AMATEUR-SATELLITE	Amateur Satellite applications			EN 301 783	
Radio Astrono 5.149	omy	Radio Astronomy 5.149					
3.149		3.147					
250 -	252 GHz						
EARTH EXPI SATELLITE (EARTH EXPLORATION- SATELLITE (passive)	Earth exploration observations				Limb sounding of nitrous oxide near 251 GHz

RADIO ASTRONOMY

5.340

5.563A

SPACE RESEARCH (passive)

RADIO ASTRONOMY

5.340

5.563A

SPACE RESEARCH (passive)

RR Region 1 Allocation and RR footnote relevant to CEPT and frequency band

European Common Allocation

Utilisation

Radio astronomy applications

EU footnote

ECC ERC
Document

Standard

Note

observations

Spectral line and wide band continuum

252 - 265 GHz

FIXED FIXED MOBILE MOBILE

MOBILE-SATELLITE (E/S)

RADIO ASTRONOMY

RADIONAVIGATION

RADIONAVIGATION
RADIONAVIGATION
RADIONAVIGATION-

SATELLITE SATELLITE

 5.149
 5.149

 5.554
 5.554

265 - 275 GHz

FIXED FIXED

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

MOBILE MOBILE

RADIO ASTRONOMY RADIO ASTRONOMY

5.149 5.149 5.563A 5.563A

12 February 2003

EU-footnotes included in the European Common Allocation Table

EU-foot-number	EU-footnote text
EU1	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 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	This band is included in the Regional Radio Conference planned for 2004/2006 for the revision of the European Broadcasting Agreement, Stockholm 1961
EU10	The mobile service in the harmonised military band 225 - 400 MHz generally comprises land, air maritime and satellite mobile applications
EU12	The applicable RR S5 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 by the year 2008.
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. 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-2000, 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
EU22	The band 5250 - 5850 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.

EU-foot-number	EU-footnote text
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.
EU26	The band 13.25 - 14.0 GHz is utilised for a variety of radiodetermination applications falling within the radionavigation and radiolocation services. This band will be subject to further detailed consideration
EU27	A frequency band that is in general military use in Europe and identified for major military utilisation in the 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 and 1710-1785/1805-1880 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)
EU32	The bands 880 - 915 MHz and 925 - 960 MHz are currently used for GSM (2nd generation terrestrial mobile system) in most CEPT member countries and are expected to be used by UMTS/IMT-2000 (3rd generation terrestrial mobile system) only in the longer term after the additional spectrum at 2.5 GHz has been utilised
EU33	RR 5.384A identifies the band 1710 – 1885 MHz, RR 5.388 identifies the bands 1885 – 2025 MHz and 2110 – 2200 MHz for IMT-2000, however the bands 1710 - 1785 MHz and 1805 - 1880 MHz are currently used for GSM (2nd generation terrestrial mobile system), and the band 1880 – 1900 MHz is currently used for DECT applications in most CEPT member countries. These bands are generally expected to be used by UMTS/IMT-2000 (3rd generation terrestrial mobile system) after the additional spectrum at 2.5 GHz has been utilized for UMTS/IMT-2000, subject to market demands and national licensing schemes
EU34	Parts of the bands 450-457.5/460-467.5 MHz may also be used for existing and evolving public cellular networks on a national basis

RR-foot-no	Radio Regulation footnote text
5.053	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
5.054	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.
5.055	Additional allocation: in Armenia, Azerbaijan, Bulgaria, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the band 14-17 kHz is also allocated to the radionavigation service on a primary basis.
5.057	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.
5.058	Additional allocation: in Armenia, Azerbaijan, Georgia, Kazakstan, Kyrgyzstan, the Russian Federation, Tajikistan and Turkmenistan, the band 67-70 kHz is also allocated to the radionavigation service on a primary basis.
5.060	In the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.
5.062	Administrations which operate stations in the radionavigation service in the band 90-110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.
5.064	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
5.066	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).
5.067	Additional allocation: in Azerbaijan, Bulgaria, Mongolia, Kyrgyzstan, Romania 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.
5.072	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.
5.073	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)
	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)
5.074	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.
5.075	Different category of service: in Armenia, Azerbaijan, Belarus, Georgia, Moldova, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan, Ukraine and the Black Sea areas of Bulgaria and 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.
5.076	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.
5.079	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.
5.079A	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-97)). (WRC-97)
5.082	In the maritime mobile service, the frequency 490 kHz is, from the date of full implementation of the GMDSS (see Resolution 331 (Rev.WRC-97)), 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-97)

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5.083	The frequency 500 kHz is an international distress and calling frequency for Morse radiotelegraphy. The conditions for its use are prescribed in Articles 31 and 52, and in Appendix 13.
5.084	The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles 31 and 52 and in Appendix 13. (WRC-97)
5.090	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.
5.092	Some countries in Region 1 use radiodetermination systems in the bands 1606.5-1625 kHz, 1635-1800 kHz, 1850-2160 kHz, 2194-2300 kHz, 2502-2850 kHz and 3500-3800 kHz, subject to agreement obtained under No 9.21. The radiated mean power of these stations shall not exceed 50 W.
5.093	Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Georgia, Hungary, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, the Russian Federation, Tajikistan, Chad, Turkmenistan and Ukraine, the bands 1 625-1 635 kHz, 1 800-1 810 kHz and 2 160-2 170 kHz and, in Bulgaria, the bands 1 625-1 635 kHz and 1 800-1 810 kHz, are also allocated to the fixed and land mobile services on a primary basis, subject to agreement obtained under No. 9.21.
5.096	In Germany, Armenia, Austria, Azerbaijan, Belarus, Denmark, Estonia, Finland, Georgia, Hungary, Ireland, Israel, Jordan, Kazakstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, 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.
5.098	Alternative allocation: in Angola, Armenia, Azerbaijan, Belarus, Belgium, Bulgaria, Cameroon, the Congo, Denmark, Egypt, Eritrea, Spain, Ethiopia, Georgia, Greece, Italy, Kazakstan, Lebanon, Lithuania, Moldova, the Netherlands, Syria, Kyrgyzstan, the Russian Federation, 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.
5.099	Additional allocation: in Saudi Arabia, Austria, Bosnia and Herzegovina, Iraq, Libya, Uzbekistan, Slovakia, the Czech Republic, Romania, Slovenia, Chad, Togo and Yugoslavia, the band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
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. S5.98 and S5.99.
5.103	In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1850-2045 kHz, 2194-2498 kHz, 2502-2 625 kHz and 2650-2850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.
5.104	In Region 1, the use of the band 2 025-2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
5.108	The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5-2 190.5 kHz are prescribed in Articles 31 and 52 and in Appendix 13.
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, 156.8 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 and in Appendix 13. 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.
5.112	Alternative allocation: in Bosnia and Herzegovina, Cyprus, Denmark, Greece, Iceland, Malta, Sri Lanka and Yugoslavia, the band 2 194-2 300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
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 Bosnia and Herzegovina, Cyprus, Denmark, Greece, Iraq, Malta, and Yugoslavia, the band 2 502-2 625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
5.115	The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article 31 and Appendix 13 by stations of the maritime mobile service engaged in coordinated search and rescue operations.

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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 Bosnia and Herzegovina, Cyprus, Côte d'Ivoire, Denmark, Egypt, Greece, Iceland, Liberia, Malta, Sri Lanka, Togo and Yugoslavia, the band 3 155-3 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis
5.126	In Region 3, the stations of those services to which the band 3 995-4 005 kHz is allocated may transmit standard frequency and time signals.
5.127	The use of the band 4 000-4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. 52.220 and Appendix 17).
5.128	In Afghanistan, Argentina, Armenia, Azerbaijan, Belarus, Botswana, Burkina Faso, Central African Republic, China, Georgia, India, Kazakstan, Mali, Niger, Kyrgyzstan, Russian Federation, 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 of limited power in the fixed service which are situated at least 600 km from the coast may operate on condition that harmful interference is not caused to the maritime mobile service. (WRC-97)
5.129	On condition that harmful interference is not caused to the maritime mobile service, the 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.
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 and in Appendix 13.
5.131	The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteo-rological 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, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, Russian Federation, 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).
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 limited to single-sideband emissions with the characteristics specified in Appendix 11 or to any other spectrum-efficient modulation techniques recommended by ITU-R. Access to these bands shall be subject to the decisions of a competent conference. (WRC-97)
5.136	The band 5 900-5 950 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis, as well as to the following services: in Region 1 to the land mobile service on a primary basis, in Region 2 to the mobile except aeronautical mobile (R) service on a primary basis, and in Region 3 to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.
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.
5.139	Different category of service: in Armenia, Azerbaijan, Belarus, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Russian Federation, 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).
5.142	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.

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

 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
 - 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 and in Appendix 13.
- The bands 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz are allocated to the fixed service on a primary basis until 1 April 2007, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in these bands may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.
- 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.

In making assignments to stations of other services to which the bands: 5.149 13 360-13 410 kHz, 25 550-25 670 kHz, 37.5-38.25 MHz, 73-74.6 MHz in Regions 1 and 3, 150.05-153 MHz in Region 1, 322-328.6 MHz, 406.1-410 MHz, 608-614 MHz in Regions 1 and 3, 1 330-1 400 MHz, 1 610.6-1 613.8 MHz, 1 660-1 670 MHz, 1718.8-1722.2 MHz, 2 655-2 690 MHz, 3 260-3 267 MHz. 3 332-3 339 MHz, 3 345.8-3 352.5 MHz, 4 825-4 835 MHz. 4 950-4 990 MHz, 4 990-5 000 MHz, 6 650-6 675.2 MHz, 10.6-10.68 GHz, 14.47-14.5 GHz. 22.01-22.21 GHz 22.21-22.5 GHz, 22.81-22.86 GHz 23.07-23.12 GHz, 31.2-31.3 GHz, 31.5-31.8 GHz in Regions 1 and 3, 36.43-36.5 GHz, 42.5-43.5 GHz, 42.77-42.87 GHz, 43.07-43.17 GHz, 43.37-43.47 GHz, 48.94-49.04 GHz, 76-86 GHz, 92-94 GHz, 94.1-100 GHz, 102-109.5 GHz, 111.8-114.25 GHz, 128.33-128.59 GHz, 129.23-129.49 GHz, 130-134 GHz. 136-148.5 GHz, 151.5-158.5 GHz. 168.59-168.93 GHz, 171.11-171.45 GHz, 172.31-172.65 GHz, 173.52-173.85 GHz, 195.75-196.15 GHz, 209-226 GHz,

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).

5.150 The following bands:

241-250 GHz, 252-275 GHz

13 553 - 13 567 kHz (centre frequency 13 560 kHz), 26 957 - 27 283 kHz (centre frequency 27 120 kHz), 40.66 - 40.70 MHz (centre frequency 40.68 MHz), 902 - 928 MHz in Region 2(centre frequency 915 MHz), 2 400 - 2 500 MHz (centre frequency 2 450 MHz), 5 725 - 5 875 MHz (centre frequency 5 800 MHz), and 24 - 24.25 GHz (centre frequency 24.125 GHz)

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

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

5.151

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5.152	Additional allocation: in Armenia, Azerbaijan, China, Côte d'Ivoire, Georgia, Iran (Islamic Republic of), Kazakstan, Moldova, 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.
5.154	Additional allocation: in Armenia, Azerbaijan, Georgia, Kazakstan, Moldova, 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.
5.155	Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 21 850-21 870 kHz is also allocated to the aeronautical mobile (R) services on a primary basis.
5.155A	In Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, the Russian Federation, 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.
5.155B	The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.
5.156A	The use of the band 23 200-23 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety
5.157	The use of the band 23 350-24 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.
5.162A	Additional allocation: in Germany, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Denmark, Spain, Estonia, Finland, France, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Luxembourg, Moldova, Monaco, Norway, the Netherlands, Poland, Portugal, Slovakia, the Czech Republic, the United Kingdom, the Russian Federation, 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).
5.163	Additional allocation: in Armenia, Azerbaijan, Belarus, Estonia, Georgia, Hungary, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, Russia, 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.
5.164	Additional allocation: in Albania, Germany, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Côte d'Ivoire, Denmark, Spain, Finland, France, Gabon, Greece, Ireland, Israel, Italy, Jordan, Lebanon, Libya, Liechtenstein, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Nigeria, Norway, the Netherlands, Poland, Syria, the United Kingdom, Senegal, Slovenia, Sweden, Switzerland, Swaziland, Togo, Tunisia, Turkey and Yugoslavia the band 47 - 68 MHz, in Romania the band 47 - 58 MHz and in the Czech Republic the band 66 - 68 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each 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.
5.174	Alternative allocation: in Bulgaria, Hungary, Poland and Romania, the band 68 - 73 MHz is allocated to the broadcasting service on a primary basis and used in accordance with the decisions in the Final Acts of the Special Regional Conference (Geneva, 1960).
5.175	Alternative allocation: in Armenia, Azerbaijan, Belarus, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting service 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.
5.176	Additional allocation: in Australia, China, Korea (Rep. of), the Philippines, the Dem. People's Rep. of Korea, Estonia (subject to agreement obtained under No. 9.21) and Western Samoa, the band 68-74 MHz is also allocated to the broadcasting service on a primary basis.
5.177	Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakstan, Latvia, Moldova, Uzbekistan, Poland, Kyrgyzstan, the Russian Federation, 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.
5.179	Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, China, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Kyrgyzstan, Slovakia, the Czech Republic, Russia, 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.
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.
5.184	Additional allocation: in Bulgaria and Romania, the band 76 - 87.5 MHz is also 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).

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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.
5.194	Additional allocation: in Azerbaijan, Lebanon, Syria, Kyrgyzstan, Somalia and Turkmenistan, the band 104-108 MHz is also allocated to the mobile, except aeronautical mobile (R), service on a secondary basis.
5.198	Additional allocation: the band 117.975 - 136 MHz is also allocated to the aeronautical mobile-satellite (R) service on a secondary basis, subject to agreement obtained under Article 14/No. 9.21.
5.199	The bands 121.45 - 121.55 MHz and 242.95 - 243.05 MHz are also allocated to the mobile-satellite service for the reception on board satellites of emissions from emergency position-indicating radiobeacons transmitting at 121.5 MHz and 243 MHz (see Appendix 13).
5.200	In the band 117.975 - 136 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 and Appendix 13 for distress and safety purposes with stations of the aeronautical mobile service.
5.201	Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Hungary, the Islamic Republic of Iran, Iraq, Japan, Kazakstan, Latvia, Moldova, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Russia, 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.
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, Syria, 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.
5.203	In the band 136-137 MHz, existing operational meteorological satellites may continue to operate, under the conditions defined in No. 4.4 with respect to the aeronautical mobile service, until 1 January 2002. Administrations shall not authorize new frequency assignments in this band to stations in the meteorological-satellite service.
5.204	Different category of service: in Afghanistan, Saudi Arabia, Bahrain, Bangladesh, Bosnia and Herzegovina, Brunei Darussalam, China, Cuba, the United Arab Emirates, India, Indonesia, the Islamic Republic of Iran, Iraq, Malaysia, Oman, Pakistan, Philippines, Qatar, Singapore, Sri Lanka, Thailand, Yemen and Yugoslavia, 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).
5.206	Different category of service: in Armenia, Azerbaijan, Belarus, Bulgaria, Egypt, Finland, France, Georgia, Greece, Kazakstan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Syria, 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).
5.208	The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 9.11A.
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 Table 1 of Recommendation ITU-R RA.769-1.
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.
5.210	Additional allocation: in France, Italy, Liechtenstein, Slovakia, the Czech Republic, the United Kingdom and Switzerland, 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.
5.211	Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Bosnia and Herzegovina, Denmark, the United Arab Emirates, Spain, Finland, Greece, Ireland, Israel, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Liechtenstein, Luxembourg, Mali, Malta, Norway, the Netherlands, Qatar, the United Kingdom, Somalia, Sweden, Switzerland, Tanzania, Tunisia, Turkey and Yugoslavia, the band 138-144 MHz is also allocated to the maritime mobile and land mobile services on a primary basis.
5.214	Additional allocation: in Bosnia and Herzegovina, Croatia, Eritrea, Ethiopia, Kenya, The Former Yugoslav Republic of Macedonia, Malta, Somalia, Sudan, Tanzania and Yugoslavia, the band 138-144 MHz is also allocated to the fixed service on a primary basis.
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 \pm 25 kHz.

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5.219	The use of the band 148 - 149.9 MHz by the mobile-satellite service is subject to coordination under Resolution 46 (Rev.WRC-97)/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 Resolution 46 (Rev.WRC-97)/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.
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, Austral, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo, Korea (Rep. of), Croatia, Cuba, Denmark, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Ethiopia, Finland, France, Gabon, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, Jamaica, Japan, Jordan, Kazakstan, Kenya, Kuwait, Latvia, The Former Yugoslav Republic of Macedonia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, Syria, Kyrgyzstan, Slovakia, Romania, the United Kingdom, the Russian Federation, Senegal, 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, Yugoslavia, Zambia, and Zimbabwe.
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.
5.222A	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.
5.222B	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.
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.
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.
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 are contained in Article 31 and Appendix 13. In the bands 156 - 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 13). 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 frequency 156.8 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.
5.227	In the maritime mobile VHF service the frequency 156.525 MHz is to be used exclusively for digital selective calling for distress, safety and calling (see Resolution 323 (Mob-87)). The conditions for the use of this frequency are prescribed in Articles 31 and 52, and Appendices 13 and S18.
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.
5.246	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.
5.254	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.
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 Resolution 46 (Rev.WRC-97)/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 (see Appendix 13).

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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).
5.260	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, Bosnia and Herzegovina, Bulgaria, Colombia, Costa Rica, Cuba, Egypt, the United Arab Emirates, Ecuador, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakstan, Kuwait, Liberia, Malaysia, Moldova, Nigeria, Uzbekistan, Pakistan, the Philippines, Qatar, Syria, Kyrgyzstan, Slovakia, Romania, the Russian Federation, Singapore, Somalia, Tajikistan, Turkmenistan, Ukraine and Yugoslavia, the band 400.05-401 MHz is also allocated to the fixed and mobile services on a primary basis.
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 Resolution 46 (Rev.WRC-97)/No. 9.11A. The power flux-density limit indicated in Annex 2 of Resolution 46 (Rev. WRC-95)/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 and Appendix 13).
5.267	Any emission capable of causing harmful interference to the authorised uses of the band 406 - 406.1 MHz is prohibited.
5.268	Use of the 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° ?? 9° . $153 + 0.077$? 9° . dB(W/m2) for 9° ?? 9° . where 9° 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.
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 Azerbaijan, Belarus, China, Estonia, India, Latvia, Lithuania, Kyrgyzstan and Turkmenistan, the band 420-460 MHz is also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis.
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).
5.273	Different category of service: in Denmark, Libya and Norway, the allocation of the bands 430 - 432 MHz and 438 - 440 MHz to the radiolocation 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 Bosnia and Herzegovina, Croatia, Estonia, Finland, Latvia, The Former Yugoslav Republic of Macedonia, Libya, Slovenia and Yugoslavia, 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.
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, the Islamic Republic of Iran, Iraq, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Liechtenstein, Malaysia, Malta, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syria, Democratic People's Republic 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.
5.277	Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Cameroon, Congo, Djibouti, Georgia, Hungary, Israel, Kazakstan, Latvia, Mali, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Rwanda, Tajikistan, Chad, Turkmenistan and Ukraine, the band 430-440 MHz is also allocated to the fixed service on a primary basis
5.280	In Germany, Austria, Bosnia and Herzegovina, Croatia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Portugal, Slovenia, Switzerland and Yugoslavia, 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.

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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. S25.11. The use of the bands 1 260 - 1 270 MHz and 5 650 - 5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
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.
5.286A	The use of the bands 454 - 456 MHz and 459 - 460 MHz by the mobile-satellite service is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 9.11 A.
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.
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 (see Resolution 341 (WRC-97)).
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, Japan, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Russian Federation, 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.
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).
5.296	Additional allocation: in Germany, Austria, Belgium, Cyprus, Denmark, Spain, Finland, France, Ireland, Israel, Italy, Libya, Lithuania, Malta, Morocco, Monaco, Norway, the Netherlands, Portugal, Syria, 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 of Frequency Allocations in countries other than those listed in this footnote
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.
5.306	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.
5.311	Within the frequency band 620 - 790 MHz, assignments may be made to television stations using frequency modulation in the broadcasting-satellite service subject to agreement between the administrations concerned and those having services, operating in accordance with the Table, which may be affected (see Resolutions 33 and 507). Such stations shall not produce a power flux-density in excess of the value -129 dB(W/m2) for angles of arrival less than 20° (see Recommendation 705) within the territories of other countries without the consent of the administrations of those countries.
5.312	Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakstan, Latvia, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Russia, Tajikistan, Turkmenistan and Ukraine, the band 645 - 862 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
5.314	Additional allocation: in Austria, Italy, Moldova, Uzbekistan, the United Kingdom and Swaziland, the band 790-862 MHz is also allocated to the land mobile service on a secondary basis.
5.315	Alternative allocation: in Greece, Italy and Tunisia, the band 790-838 MHz is allocated to the broadcasting service on a primary basis.

RR-foot-no Radio Regulation footnote text 5.316 Additional allocation: in Germany, Saudi Arabia, Bosnia and Herzegovina, Burkina Faso, Cameroon, Côte d'Ivoire, Croatia, Denmark, Egypt, Finland, Israel, Kenya, The Former Yugoslav Republic of Macedonia, Libya, Liechtenstein, Monaco, Norway, the Netherlands, Portugal, Syria, Sweden, Switzerland and Yugoslavia, 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 5.317A Administrations wishing to implement International Mobile Telecommunications-2000 (IMT-2000) may use those parts of the band 806-960 MHz which are allocated to the mobile service on a primary basis and are used or planned to be used for mobile systems (see Resolution 224 (WRC-2000)). 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. 5.319 Additional Allocation: In Belarus, 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 shal not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations and is subjec to spoecial agreements between the administrations concerned 5.321 Alternative allocation: in Italy, the band 838 - 854 MHz is allocated to the broadcasting service on a primary basis as from 1 January 1995. 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, Libya, Morocco, Nigeria, South Africa, Tanzania and Zimbabwe, subject to agreement obtained under No 9.21. 5.323 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Hungary, kazakstan, Latvia, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Russian Federation, 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 optained 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. 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. 5 328A Additional allocation: the band 1 164-1 215 MHz is also allocated to the radionavigation-satellite service (space-to-Earth) (space-to-space) on a primary basis. The aggregate power flux-density produced by all the space stations of all radionavigation-satellite systems at the Earth's surface shall not exceed the provisional value of -115 dB(W/m2) in any 1 MHz band for all angles of arrival. Stations in the radionavigation-satellite service shall not cause harmful interference to, nor claim protection from, stations of the aeronautical-radionavigation service. The provisions of Resolution 605 (WRC-2000) apply. Use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful 5.329 interference is caused to, and no protection is claimed from, the radionavigation service authorized under No. 5.331. See also Resolution 606 (WRC-2000). 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 other systems or services operating in accordance with the Table of Frequency Allocations. 5.330 Additional allocation: in Azerbaijan, Bulgaria, Cuba, Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 3 300-3 400 MHz is also allocated to the radionavigation service on a primary basis 5.331 Additional allocation: in Algeria, Germany, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Burundi, Cameroon, China, Croatia, Denmark, the United Arab Emirates, France, Greece, India, Iran (Islamic Republic of), Iraq, Kenya, The Former Yugoslav Republic of Macedonia, Liechtenstein, Luxembourg, Mali, Mauritania, Norway, Oman, the Netherlands, Portugal, Qatar, Senegal, Slovenia, Somalia, Sudan, Sri Lanka, Sweden, Switzerland, Turkey and Yugoslavia, the band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. 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 In the band 1 260-1 300 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services 5.335A 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. 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.

In Azerbaijan, Bulgaria, Mongolia, Kyrgyzstan, Slovakia, the Czech Republic, Romania and Turkmenistan, existing installations of the radionavigation service may continue to operate in the band 1 350-1 400 MHz.

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.

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5.339

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5.340	All emissions are prohibited in the following bands: 1 400-1 427 MHz, 2 690-2 700 MHz, except those provided for by Nos. 5.421 and 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, except those provided for by No. 5.555A, 52.6-54.25 GHz, 86-92 GHz,
	100-102 GHz, 109.5-111.8 GHz, 114.25-116 GHz 148.5-151.5 GHz, 164-167 GHz, 182-185 GHz, except those provided for by No. 5.563, 190-191.8 GHz,
	200-209 GHz, 226-231.5 GHz, 250-252 GHz.
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, Uzbekistan, Kyrgystan, the Russian Federation 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
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).
5.347	Different category of service: in Bangladesh, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Cuba, Denmark, Egypt, Greece, Ireland, Italy, Kenya, Mozambique, Portugal, Sri Lanka, Swaziland, Yemen, Yugoslavia and Zimbabwe, the allocation of the band 1 452-1 492 MHz to the broadcasting-satellite service and the broadcasting service is on a secondary basis until 1 April 2007.
5.349	Different category of service: in Saudi Arabia, Azerbaijan, Bahrain, Bosnia and Herzegovina, Cameroon, Egypt, France, Iran (Islamic Republic of), Iraq, Israel, Kazakstan, Kuwait, The Former Yugoslav Republic of Macedonia, Lebanon, Morocco, Qatar, Syria, Kyrgyzstan, Romania, Turkmenistan, Yemen and Yugoslavia, 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).
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.
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 1 525-1 544 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, 1 980-2 010 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-97) and 225 (WRC-2000).
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, Philippines, Qatar, Syria, Tanzania, Viet Nam and Yemen notified prior to 1 April 1998.
5.353A	In applying the procedures of Section II of Article S9 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.)
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 Resolution 46 (Rev. WRC-97)/No. 9.11A.
5.355	Additional allocation: in Bahrain, Bangladesh, Congo, Egypt, Eritrea, Iraq, Israel, Jordan, Kuwait, Lebanon, Malta, Morocco, Qatar, Syria, 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
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).

RR-foot-no Radio Regulation footnote text 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 S9 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

- In applying the procedures of Section II of Article S9 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 preemption 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.)
- Additional allocation: in Germany, Saudi Arabia, Armenia, Austria, Azerbaijan, Belarus, Benin, Bosnia and Herzegovina, Bulgaria, Cameroon, Spain, France, Gabon, Georgia, Greece, Guinea, Guinea-Bissau, Hungary, Jordan, Kazakstan, Kuwait, Latvia, Lebanon, Libya, Lithuania, Mali, Morocco, Mauritania, Moldova, Mongolia, Nigeria, Uganda, Uzbekistan, Pakistan, Poland, Syria, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, the Russian Federation, Senegal, 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.
- Additional allocation: The band 1 559-1 610 MHz is also allocated to the fixed service on a primary basis until 1 January 2005 in Germany, Armenia, Azerbaijan, Belarus, Benin, Bosnia and Herzegovina, Bulgaria, Spain, France, Gabon, Georgia, Greece, Guinea, Guinea-Bissau, Hungary, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Nigeria, Uganda, Uzbekistan, Pakistan, Poland, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, the Russian Federation, Senegal, Swaziland, Tajikistan, Tanzania, Turkmenistan and Ukraine, and until 1 January 2010 in Saudi Arabia, Cameroon, Jordan, Kuwait, Lebanon, Libya, Mali, Morocco, Mauritania, Syria and Tunisia. After these dates, 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. 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.
- Additional allocation: in Bahrain, Bangladesh, Congo, Egypt, Eritrea, Iraq, Israel, Jordan, Kuwait, Lebanon, Malta, Morocco, Qatar, Syria, 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.
- 5.363 Alternative allocation: in Sweden, the band 1 590 1 626.5 MHz is allocated to the aeronautical radionavigation service on a primary basis.
 - The use of the band 1 610 1 626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodetermination-satellite service (Earth-to-space) is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 9.11A. A mobile earth station operating in either of the services in this band shall not produce a peak e.i.r.p. density in excess of -15 dB(W/4 kHz) in the part of the band used by systems operating in accordance with the provisions of No. 5.366 (to which No. 4.10 applies), unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, the mean e.i.r.p. density of a mobile earth station shall not exceed -3 dB(W/4 kHz). Stations of the mobile-satellite service shall not claim protection from stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. 5.366 and stations in the fixed service operating in accordance with the provisions of No. 5.359. Administrations responsible for the coordination of mobile-satellite networks shall make all practicable efforts to ensure protection of stations operating in accordance with the provisions of No. 5.366.
- 5.365 The use of the band 1 613.8 1 626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 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.
- 5.371 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.
- 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).

5.364

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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.
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.
5.380	The bands 1 670 - 1 675 MHz and 1 800 - 1 805 MHz are intended for use, on a worldwide basis, by administrations wishing to implement aeronautical public correspondence. The use of the band 1 670 - 1 675 MHz by stations in the systems for public correspondence with aircraft is limited to transmissions from aeronautical stations and the use of the band 1 800 - 1 805 MHz is limited to transmissions from aircraft stations.
5.382	Different category of service: in Saudi Arabia, Armenia, Austria, Azerbaijan, Bahrain, Belarus, Bosnia and Herzegovina, Bulgaria, the Congo, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guinea, Hungary, Iraq, Israel, Jordan, Kazakstan, Kuwait, the Former Yugoslav Republic of Macedonia, Lebanon, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, Syria, Kyrgyzstan, Romania, Russia, Somalia, Tajikistan, Tanzania, Turkmenistan, Ukraine, Yemen and Yugoslavia, 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 Democratic People's Republic 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.
5.384A	The bands, or portions of the bands, 1 710-1 885 MHz and 2 500-2 690 MHz, are identified for use by administrations wishing to implement International Mobile Telecommunications-2000 (IMT-2000) in accordance with Resolution 223 (WRC-2000). 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.
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.
5.387	Additional allocation: in Azerbaijan, Belarus, Georgia, Kazakstan, Mali, 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.
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 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 (WRC-2000). The 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.
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 Resolution 46 (Rev.WRC-97)/No. 9.11A and to the provisions of Resolution 716 (WRC-95). The use of these bands shall not commence before 1 January 2000; however the use of the band 1 980 - 1 990 MHz in Region 2 shall not commence before 1 January 2005.
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.
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.
5.392A	Additional allocation: in Russia, the band 2 160 - 2 200 MHz is also allocated to the space research service (space-to-Earth) on a primary basis until 1 January 2005. Stations in the space research service shall not cause harmful interference to, or claim protection from, stations in the fixed and mobile services operating in this frequency band.
5.395	In France, 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.
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.

5.402	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 Resolution 46 (Rev.WRC-97)/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 (until 1 January 2005 the band 2 500 - 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 Resolution 46 (Rev.WRC-97)/No. 9.11A apply.
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.
5.409	Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in the band 2 $500 - 2690\text{MHz}$.
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.
5.411	When planning new tropospheric scatter radio-relay links in the band 2 500 - 2 690 MHz, all possible measures shall be taken to avoid directing the antennae of these links towards the geostationary-satellite orbit.
5.412	Alternative allocation: in Azerbaijan, Bulgaria, 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
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) shall be effective on 1 January 2005 and is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 9.11A.
5.416	The use of the band 2 520 - 2 670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. 9.21. The power flux-density at the Earth's surface shall not exceed the values given in Article 21, Table 21-4.
5.418	Additional allocation: in Bangladesh, Belarus, China, Rep. of Korea, India, Japan, Pakistan, Russia, Singapore, Sri Lanka, Thailand and Ukraine the band 2 535 - 2 655 MHz is also allocated to the broadcasting-satellite service (sound) and complementary terrestrial broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to provisions of Resolution 528 (WARC-92). The provisions of No. 5.416 and Article 21, Table 21-4, do not apply to this additional allocation.
5.418A	In certain Region 3 countries listed in No. 5.418, use of the band 2 630-2 655 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound) 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. 9.12A, in respect of geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, is considered to have been received after 2 June 2000, and No. 22.2 does not apply. No. 22.2 shall continue to apply with respect to geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, is considered to have been received before 3 June 2000. Use of the band by non-geostationary-satellite systems in the broadcasting-satellite service (sound) is subject to the provisions of Resolution 539 (WRC-2000), and such systems shall be in accordance with Resolution 528 (WARC-92).
5.418B	Use of the band 2 630-2 655 MHz by non-geostationary-satellite systems 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. Resolution 539 (WRC-2000) applies.
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), and No. 22.2 does not apply. Resolution 539 (WRC-2000) applies.
5.419	The allocation of the frequency band 2 670 - 2 690 MHz to the mobile-satellite service shall be effective from 1 January 2005. When introducing systems of the mobile-satellite service in this band, 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 Resolution 46 (Rev.WRC-97)/No. 9.11A.
5.420	The band 2 655 - 2 670 MHz (until 1 January 2005 the band 2 655 - 2 690 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 Resolution 46 (Rev.WRC-97)/No. 9.11A applies.
5.421	Additional allocation: in Germany and Austria, the band 2 690 - 2 695 MHz is also allocated to the fixed service on a primary basis. Such use is limited to equipment in operation by 1 January 1985.

Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Bosnia and Herzegovina. Brunei 5.422 Darussalam, Congo, Côte d'Ivoire, Cuba, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Georgia, Guinea, Guinea-Bissau, Iran (Islamic Republic of), Iraq, Israel, Jordan, Lebanon, Malaysia, Mali, Mauritania, Moldova, Mongolia, Nigeria, Oman, Uzbekistan, Pakistan, the Philippines, Qatar, Syria, Kyrgyzstan, the Dem. Rep. of the Congo, Romania, the Russian Federation, Somalia, Tajikistan, Tunisia, Turkmenistan, Ukraine, Yemen and Yugoslavia, 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. 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. 5 425 In the band 2 900 - 3 100 MHz, the use of the shipborne interrogator-transponder system (SIT) shall be confined to the sub-band 2 930 -2 950 MHz. 5.426 The use of the band 2 900 - 3 100 MHz by the aeronautical radionavigation service is limited to ground-based radars. 5.427 In the bands 2 900 - 3 100 MHz and 9 300 - 9 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service, having regard, however, to No. 4.9 of these Regulations. 5.428 Additional allocation: in Azerbaijan, Bulgaria, Cuba, Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 3 100-3 300 MHz is also allocated to the radionavigation service on a primary basis. 5.429 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, China, the Congo, the Republic of Korea, the United Arab Emirates, India, Indonesia, the Islamic Republic of Iran, Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Libya, Malaysia, Oman, Pakistan, Qatar, Syria, Democratic People's Republic 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. 5.430 Additional allocation: in Azerbaijan, Bulgaria, Cuba, Mongolia, Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 3 300-3 400 MHz is also allocated to the radionavigation service on a primary basis. 5.431 Additional allocation: in Germany, Israel, Nigeria and the United Kingdom, the band 3 400 - 3 475 MHz is also allocated to the amateur service on a secondary basis. 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. 5.441 The use of the bands 4 500-4 800 MHz (space-to-Earth), 6 725-7 025 MHz (Earth-to-space) by the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite $service\ shall\ be\ in\ accordance\ with\ the\ provisions\ of\ Appendix\ 30B.\ The\ use\ of\ the\ bands\ 10.7-10.95\ GHz\ (space-tollow)$ 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 nongeostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite system in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-GSO FSS systems and of the complete coordination or notification information, as appropriate, for the GSO 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. 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. 5.443A Additional allocation: The band 5 000-5 010 MHz is also allocated to the radionavigation-satellite service (Earth-tospace) on a primary basis. See Resolution 603 (WRC-2000). 5.443B Additional allocation: The band 5 010-5 030 MHz is also allocated to the radionavigation-satellite service (space-to-Earth) (space-to-space) on a primary basis. 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, the aggregate power flux-density produced in the 4 990-5 000 MHz band by all the space stations within any RNSS (space-to-Earth) system operating in the 5 010-5 030 MHz band shall not exceed the provisional value of -171 dB(W/m2) in a 10 MHz band at any radio astronomy observatory site for more than 2% of the time. For the use of this band, Resolution 604(WRC-2000) applies. 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. The requirements of this system shall take precedence over other uses of this band. For the use of this band, No. 5.444A and Resolution 114 (WRC-95) apply.

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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 and is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 9.11A.

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

- prior to 1 January 2010, 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 (WRC-95);
- prior to 1 January 2010, 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;

- after 1 January 2008, no new assignments shall be made to stations providing feeder links of non-geostationary mobile-satellite systems;
- after 1 January 2010, the fixed-satellite service will become secondary to the aeronautical radionavigation service.

5.446

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.

5.447

Additional allocation: in Germany, Austria, Belgium, Denmark, Spain, Estonia, Finland, France, Greece, Israel, Italy, Japan, Jordan, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Norway, Pakistan, the Netherlands, Portugal, Syria, the United Kingdom, Sweden, Switzerland 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

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 Resolution 46 (Rev.WRC-97)/ No. 9.11A.

5.447B

Additional allocation: the band 5 150 - 5 216 MHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to provisions of Resolution 46 (Rev.WRC-97)/ 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 Resolution 46 (Rev.WRC-97)/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.

5.448

Additional allocation: in Austria, Azerbaijan, Bulgaria, Libya, Mongolia, Kyrgyzstan, Slovakia, the Czech Republic, Romania and Turkmenistan, the band 5 250-5 350 MHz is also allocated to the radionavigation service on a primary basis.

5.448A

The use of the frequency band 5 250-5 350 MHz by the earth exploration-satellite (active) and space research (active) services shall not constrain the future development and deployment of the radiolocation service.

5.448B

The earth exploration-satellite (active) service operating in the band 5 350-5 460 MHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service.

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, Bulgaria, the Islamic Republic of Iran, Mongolia, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Turkmenistan and Ukraine, the band 5 470-5 650 MHz is also allocated to the aeronautical radionavigation service on a primary basis.

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, Belarus, Georgia, Mongolia, Uzbekistan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5 670-5 725 MHz to the space research service is on a primary basis (see No. 5.33).

5.455

Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Cuba, Hungary, Kazakstan, Latvia, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, Russia, Tajikistan, Turkmenistan and Ukraine, the band 5 670 - 5 850 MHz is also allocated to the fixed service on a primary basis.

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 - 725 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7.075 - 725 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 6.705 - 725 MHz and 7.075 - 725 MHz. 5.458A In making assignments in the band 6.700 - 7075 MHz to space stations of the fixed-satellite service, administrations an urged to rake all prateclashe steps to pretest spectral line observations of the radio astronomy service in the band 6.700 - 7075 MHz to space stations of the passive service in the band 6.700 - 7075 MHz to make a proceed of the passive service in the band 6.700 - 7075 MHz to make a process of the passive service in the passive service in the passive service in the band 6.700 - 7075 MHz to space of the passive service in the passi		Tumo Regiminon footilote test	
075 - 7.250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth explorations ascilled (passive) and space research (passive) services in their fature planning of the bands 6 425 - 7.025 MHz and 7 075 - 725 MHz to space stations of the fixed-satellite service, administrations unged to take all practicable steps to protest spectral line observations of the radio action my service in the band 6 600 6752 MHz from humful interference from unwanted emissions. 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 Resolution 46 (Rev WRC-97)No 9 11.1 A The use of the band 6 700 - 7 075 MHz (gaze-to-Farth) by feeder links for non-geostations satellite systems in the mobile-satellite service in the satellite systems in the mobile-satellite service after 17 Noncomber 1995 and consult on the basis of relevant ITU-R Recommendations were also stated to the satellite service after 17 Noncomber 1995 shall consult on the basis of relevant ITU-R Recommendations were also shall be with a view to facilitate shared operation of both geostationary-satellite systems in the fixed-satellite service after 17 Noncomber 1995 shall consult on the basis of relevant ITU-R Recommendations were also shall be with a view to facilitate shared operation of both geostationary-satellite systems in the fixed-satellite service in the band of the fixed-satellite service and non-geostationary-satellite systems in the fixed-satellite service in the band of the space operation service (Earth-to-space) are primary basis, subject to agreement obtained under No. 9.21.5 4560 Additional allocation: the band 7 145 - 7.235 MHz is also allocated to the space research (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. 9.21.5 4561 Additional allocat	5.456	Additional allocation: in Germany and in Cameroon, the band 5 755 - 5 850 MHz is also allocated to the fixed service on a primary basis.	
urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the band 6 650 675.2 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-goostationary satellite systems of the mobile-satellite service in the band 6 700 - 7 075 MHz (space-to-Earth) by feeder links for non-goostationary 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 (Sate-ho-space) for geodationary-satellite systems in the fixed-satellite service under 17 November 1995 shall consult on the basis of relevant ITU-R. Recommendations the the administrations that have notified and brought into use one-geostationary-satellite systems in the fixed-satellite service and non-geostationary-satellite systems in the fixed-satellite service on a primary basis, subject to agreement obtained under No. 921. 5.4610 Additional allocation: the band 7 145 - 7 235 MHz is also allocated to the space receive (Farth-to-space) service on a primary basis, subject to agreement obtained under No. 921. 5.4611 The use of the band 7 450-750 MHz by the meteorological-satellite service (space-to-Earth) is limited to geostationary satellite systems. Non-geostationary material satellite service on a primary basis until the end of their lifetime. The use of the band 7 750-7 850 MHz by the meteorological-satellite service (space-to-Earth) is limited to non-geostationary satellit	5.458	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	
non-geostationary satellite systems of the mobile-satellite service and is subject to coordination under Resolution 46 (Rev.WRC-97)No. 911.A. The use of the band 700-7075 MHz (space-to-Earth) by feeder links for non-geostation satellite systems in the mobile-satellite service is not subject to No. 222. 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 we the administrations that have notified and brought into use non-geostationary-satellite systems in this frequency band before 18 November 1995 yeap request of the latter administrations. This consultation shall be view for facilitati 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 Russia, 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. 5.460 Additional allocation: the band 7 145 - 7 235 MHz is also allocated to the space research (Earth-to-space) service on a primary basis, subject to agreement obtained under No. 9.21. The use of the band 7 145 - 7 190 MHz is restricted to despace, no emissions to deep space shall be effected in the band 7 190 - 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. The use of the band 7 750-7850 MHz by the meteorological-satellite system in this band notified before 30 November 1997 m continue to operate on a primary basis until the end of their lifetime. 5.461B The use of the band 7 750-7850 MHz by the meteorological-satellite service (space-to-Earth) is limited to non-geostationary satellites shall not produce a power flux-density in excess of the following provisional values for angl	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.	
in the fixed-setclitic service after 17 November 1995 shall consult on the basis of relevant ITU-R Recommendations we the administrations that have notified and brought into use non-gostationary-satellite systems in this frequency band before 18 November 1995 upon request of the latter administrations. This consultation shall be with a view to facilitatishared operation of both geostationary-satellitie systems in the fixed-satellite service and non-gostationary-satellite systems in this band. Additional allocation: in Russia, 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. The use of the band 7 145 - 7 190 MHz is restricted to despace; no emissions to deep space shall be effected in the band 7 190 - 7 235 MHz. 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. The use of the band 7 450-7 550 MHz by the metocorlogical-satellitic service (space-to-Earth) is limited to gostationar satellitie systems. Non-goostationary meteorological-satellitie service (space-to-Earth) is limited to non-goostationary satellitie systems. Non-goostationary meteorological-satellitie service (space-to-Earth) is limited to non-goostationary satellitie systems. In Regions 1 and 3 (except for 1 apan), in the band 8 025-8 400 MHz, the earth exploration-satellitie service using goostationary satellities shall not produce a power flux-density in excess of the following provisional values for angles-arrival (?), without the consent of the affected administration: 174 dBRW/m 2) in a 4 kHz band In Regions 1 and 3 (except for 1 apan), in the band 8 025-8 400 MHz, the earth exploration-satellitic service using goostationary satellities to study under the solution 12 (WRC-97). Aircraft stations are not permitted to transmit in t	5.458B	non-geostationary satellite systems of the mobile-satellite service and is subject to coordination under Resolution 46 (Rev.WRC-97)/No. 9.11A. The use of the band 6 700 - 7 075 MHz (space-to-Earth) by feeder links for non-geostationary	
space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. 9.21. Additional allocation: the band 7 145 - 7 235 MHz is also allocated to the space research (Earth-to-space) service on a primary basis, subject to agreement obtained under No. 9.21. The use of the band 7 145 - 7 190 MHz is restricted to de space; no emissions to deep space shall be effected in the band 7 190 - 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 geostationar satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 m continue to operate on a primary basis until the end of their lifetime. 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. 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 angless arrival (?), without the consent of the affected administration: -174 dB(Win 2) in a 4 kHz band for 0°??? < 5° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 5°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 + 0.5 (q - 5) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 bB(Win 2) dB(Win 2) in a 4 kHz band for 25°?? < 2° -1/4 bB(Win 2) dB(Win 2) dB(Win 2) dB(Win 2) dB(Win 2) dB(Win	5.458C	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	
primary basis, subject to agreement obtained under No. 9.21. The use of the band 7 145 - 7 190 MHz is restricted to de space; no emissions to deep space shall be effected in the band 7 190 - 7 235 MHz. 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 service (space-to-Earth) is limited to geostationary satellite systems. Non-geostationary satellite systems in this band notified before 30 November 1997 m continue to operate on a primary basis until the end of their lifetime. 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. 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 satellite shall not produce a power flux-density in excess of the following provisional values for angles-arrival (?), without the consent of the affected administration: -174 dB(B/m 2) in a 4 kHz band for 25° ? 2° 25° -164 dB(B/m 2) in a 4 kHz band for 52° ? 2° 25° -164 dB(B/m 2) in a 4 kHz band for 52° ? 2° 25° -164 dB(B/m 2) in a 4 kHz band for 52° ? 2° 25° -164 dB(B/m 2) in a 4 kHz band for 52° ? 2° 25° -164 dB(B/m 2) in a 4 kHz band for 52° ? 2° 20° These values are subject to study under Resolution 124 (WRC-97). 5.463 Aircraft stations are not permitted to transmit in the band 8 025 - 8 400 MHz. 5.465 In the space research service, the use of the band 8 400 - 8 500 MHz is ilmited to deep space. 5.467 Alternative allocation: in the United Kingdom, the band 8 400 - 8 500 MHz is allocated to the radiolocation and space research services on a primary basis. 5.469A In the band 8 55	5.459	Additional allocation: in Russia, 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.	
allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. 9.21. The use of the band 7 450-7 550 MHz by the meteorological-satellite service (space-to-Earth) is limited to gostationar satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 m continue to operate on a primary basis until the end of their lifetime. 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. In Regions 1 and 3 (except for Japan), in the band 8 025-8 400 MHz, the earth exploration-satellite service using geostationary satellite shall not produce a power flux-density in excess of the following provisional values for angles arrival (?), without the consent of the affected administration: -174 dB(W/m 2) in a 4 kHz band for 0° ?? < 5° -174 + 0.5 (q - 5) dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 5° ? < 25° -174 dB(W/m 2) in a 4 kHz band for 5° ? < 25° -184 dB(W/m 2) in a 4 kHz band for 5° ? < 25° -184 dB(W/m 2) in a 4 kHz band for 5° ? < 25	5.460	primary basis, subject to agreement obtained under No. 9.21. The use of the band 7 145 - 7 190 MHz is restricted to deep space; no emissions to deep space shall be effected in the band 7 190 -	
satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 m continue to operate on a primary basis until the end of their lifetime. 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. 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 arrival (?), without the consent of the affected administration: -174 dB(W/m 2) in a 4 kHz band for 0°?? < 5° -174 + 0.5 (a - 5) dB(W/m 2) in a 4 kHz band for 5°?? < 25° -164 dB(W/m 2) in a 4 kHz band for 25°???? 90° These values are subject to study under Resolution 124 (WRC-97). 5.463 Aircraft stations are not permitted to transmit in the band 8 025 - 8 400 MHz. 5.465 In the space research service, the use of the band 8 400 - 8 500 MHz is allocated to the radiolocation and space research services on a primary basis. 5.469 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 5.469 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. 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. 6.471 Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, the United Arab Emirates, France, Greece, Indonesia, the Islamic	5.461		
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 arrival (?), without the consent of the affected administration: -174 dB(W/m 2) in a 4 kHz band for 0° ? ? < 5° -174 + 0.5 (q - 5) dB(W/m 2) in a 4 kHz band for 5° ? ? < 25° -164 dB(W/m 2) in a 4 kHz band for 25° ? ? ? 90° These values are subject to study under Resolution 124 (WRC-97). 5.463 Aircraft stations are not permitted to transmit in the band 8 025 - 8 400 MHz. In the space research service, the use of the band 8 400 - 8 450 MHz is limited to deep space. 5.467 Alternative allocation: in the United Kingdom, the band 8 400 - 8 500 MHz is allocated to the radiolocation and space research services on a primary basis. 5.469 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 5.469 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. 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, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	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.	
geostationary satellites shall not produce a power flux-density in excess of the following provisional values for angles arrival (?), without the consent of the affected administration: -174 dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -174 + 0.5 (q - 5) dB(W/m 2) in a 4 kHz band for 5° ?? < 25° -164 dB(W/m 2) in a 4 kHz band for 25° ?? ? 90° These values are subject to study under Resolution 124 (WRC-97). 5.463 Aircraft stations are not permitted to transmit in the band 8 025 - 8 400 MHz. 5.465 In the space research service, the use of the band 8 400 - 8 450 MHz is limited to deep space. 5.467 Alternative allocation: in the United Kingdom, the band 8 400 - 8 500 MHz is allocated to the radiolocation and space research services on a primary basis. 5.469 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 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. 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. Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.461B		
5.465 In the space research service, the use of the band 8 400 - 8 450 MHz is limited to deep space. 5.467 Alternative allocation: in the United Kingdom, the band 8 400 - 8 500 MHz is allocated to the radiolocation and space research services on a primary basis. 5.469 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 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. 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, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.462A	geostationary satellites shall not produce a power flux-density in excess of the following provisional values for angles of arrival (?), without the consent of the affected administration: $-174 \ dB(W/m\ 2\) \ in\ a\ 4\ kHz\ band \qquad \qquad for\ 0^\circ\ ?\ ?<5^\circ \\ -174 + 0.5\ (q-5)\ dB(W/m\ 2\) \ in\ a\ 4\ kHz\ band \qquad for\ 5^\circ\ ?\ ?<25^\circ \\ -164\ dB(W/m\ 2\) \ in\ a\ 4\ kHz\ band \qquad for\ 25^\circ\ ?\ ?\ ?\ 90^\circ$	
5.467 Alternative allocation: in the United Kingdom, the band 8 400 - 8 500 MHz is allocated to the radiolocation and space research services on a primary basis. 5.469 Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 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. 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, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.463	Aircraft stations are not permitted to transmit in the band 8 025 - 8 400 MHz.	
Additional allocation: in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Lithuania, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 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. 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, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.465	In the space research service, the use of the band 8 400 - 8 450 MHz is limited to deep space.	
Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation service on a primary basis. 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. 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, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.467		
(active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation service. 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, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.469	Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, 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	
navigation aids on a centre frequency of 8 800 MHz. 5.471 Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, the United Arab Emirates, France, Greece, Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.469A	(active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation	
Indonesia, the Islamic Republic of Iran, Libya, the Netherlands, Qatar and Sudan, the bands 8 825 - 8 850 MHz and 9	5.470		
000 - 9 200 MHz are also allocated to the maritime radionavigation service, on a primary basis, for use by shore-based radars only.	5.471	Indonesia, the Islamic Republic of Iran, Libya, 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	
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.	5.472	In the bands 8 850 - 9 000 MHz and 9 200 - 9 225 MHz, the maritime radionavigation service is limited to shore-based radars.	

Radio Regulation footnote text RR-foot-no 5.473 Additional allocation: in Armenia, Austria, Azerbaijan, Belarus, Bulgaria, Cuba, Georgia, Hungary, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Romania, the Russian Federation, 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 In the band 9 200 - 9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the 5.474 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. In the band 9 300 - 9 500 MHz, ground-based radars used for meteorological purposes have priority over other radiolocation devices. 5.476 In the band 9 300 - 9 320 MHz in the radionavigation service, the use of shipborne radars, other than those existing on 1 January 1976, is not permitted until 1 January 2001. 5.476A In the band 9 500-9 800 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 radio-navigation and radiolocation services. 5.477 Different category of service: in Algeria, Saudi Arabia, Austria, Bahrain, Bangladesh, Brunei, Darussalam, Cameroon, the Republic of Korea, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, the Islamic Republic of Iran, Iraq, Jamaica, Japan, Jordan Kuwait, Lebanin, Liberia, Malaysia, Negeria, Oman, Pakistan, Quatar, Democratic People's Republic of Korea, Singapore, Somalia Sudan Sweden, Trinidad and Tobago and Yemen, the allocation of the band 9800-10000 MHz to the fixed service is on a primary basis (see No. 5.33) 5.478 Additional allocation: in Azerbaijan, Bulgaria, Mongolia, Kyrgyzstan, Slovakia, the Czech Republic, Romania, Turkmenistan and Ukraine, the band 9 800-10 000 MHz is also allocated to the radionavigation service on a primary The band 9 975 - 10 025 MHz is also allocated to the meteorological-satellite service on a secondary basis for use by 5.479 weather radars. 5.481 Additional allocation: in Germany, Angola, Brazil, China, Costa Rica, El Salvador, Ecuador, Spain, Guatemala, Japan, Morocco, Nigeria, Oman, Uzbekistan, Paraguay, Peru, the Dem. People's Rep. of Korea, Sweden, Tanzania, Thailand and Uruguay, the band 10.45-10.5 GHz is also allocated to the fixed and mobile services on a primary basis. 5.482 In the band 10.6 - 10.68 GHz, stations of the fixed and mobile, except aeronautical mobile, services shall be limited to a maximum equivalent isotropically radiated power of 40 dBW and the power delivered to the antenna shall not exceed -3 dBW. These limits may be exceeded subject to agreement obtained under No. 9.21. However, in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh, Belarus, China, the United Arab Emirates, Georgia, India, Indonesia, the Islamic Republic of Iran, Iraq, Japan, Kazakstan, Kuwait, Latvia, Lebanon, Moldova, Nigeria, Uzbekistan, Pakistan, the Philippines, Qatar, Syria, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the restrictions on the fixed and mobile, except aeronautical mobile, services are not applicable. 5.483 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Bosnia and Herzegovina, China, Colombia, Korea (Rep. of), Costa Rica, Egypt, the United Arab Emirates, Georgia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kazakstan, Kuwait, Latvia, Lebanon, Moldova, Mongolia, Uzbekistan, Qatar, Kyrgyzstan, the Dem. People 's Rep. of Korea, Romania, the Russian Federation, Tajikistan, Turkmenistan, Ukraine, Yemen and Yugoslavia, 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 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 broadcasting-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 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-GSO FSS systems and of the complete coordination or notification information, as appropriate, for the GSO 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. 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 provisions of the Regions 1 and 3 Plan in Appendix 30.

RR-foot-no Radio Regulation footnote text

KK-Joot-no	Kaato Kegutation jootnote text
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-GSO FSS systems and of the complete coordination or notification information, as appropriate, for the GSO 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.
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.
5.495	Additional allocation: in Bosnia and Herzegovina, Croatia, Denmark, France, Greece, Liechtenstein, Monaco, Uganda, Portugal, Romania, Slovenia, Switzerland, Tanzania, Tunisia and Yugoslavia, the band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis.
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 Article 21, Table 21-4, for the fixed-satellite service shall apply on the territory of the countries listed in this footnote.
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.
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, Syria, Senegal, Singapore, Sudan, Chad and Tunisia, the band 13.4-14 GHz is also allocated to the fixed and mobile services on a primary basis.
5.501	Additional allocation: in Austria, Azerbaijan, Hungary, Japan, Mongolia, Kyrgyzstan, Romania, the United Kingdom and Turkmenistan, the band 13.4-14 GHz is also allocated to the radionavigation service on a primary basis.
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.
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.
5.502	In the band 13.75-14 GHz, an earth station in the fixed-satellite service shall have a minimum antenna diameter of 4.5 m and the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. 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. The protection of assignments to receiving space stations in the fixed-satellite service operating with earth stations that, individually, have an e.i.r.p. of less than 68 dBW shall not impose constraints on the operation of the radiolocation and radionavigation stations operating in accordance with the Radio Regulations. No. 5.43A does not apply. See Resolution 733(WRC-2000).
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: a) 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 71 dBW in the 6 MHz band from 13.772 to 13.778 GHz; b) 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 the 6 MHz band in this frequency range 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. of 71 dBW or 51 dBW, as appropriate, in the 6 MHz band in clear-sky conditions.
5.503A	Until 1 January 2000, stations in the fixed-satellite service shall not cause harmful interference to non-geostationary space stations in the space research and Earth exploration-satellite services. After that date, these non-geostationary space stations will operate on a secondary basis in relation to the fixed-satellite service. Additionally, when planning earth

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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 (see Recommendation 708).

stations in the fixed-satellite service to be brought into service between 1 January 2000 and 1 January 2001, in order to accommodate the needs of spaceborne precipitation radars operating in the band 13.793 - 13.805 GHz, advantage should

be taken of the consultation process and the information given in Recommendation ITU-R SA.1071.

Radio Regulation footnote text RR-foot-no The band 14 - 14.5 GHz may be used, within the fixed-satellite service (Earth-to-space), for feeder links for the 5.506 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. 5.508 Additional allocation: in Germany, Bosnia and Herzegovina, France, Greece, Ireland, Iceland, Italy, The Former Yugoslav Republic of Macedonia, Libya, Liechtenstein, Portugal, the United Kingdom, Slovenia, Switzerland and Yugoslavia, the band 14.25-14.3 GHz is also allocated to the fixed service on a primary basis. 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, the Islamic Republic of Iran, Iraq, Israel, Kuwait, Lebanon, Libya, Pakistan, Qatar, Syria, Slovenia, Somalia and Yugoslavia, the band 15.35-15.4 GHz is also allocated to the fixed and mobile services on a secondary basis. 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 nongeostationary 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 non-GSO MSS feeder-link (space-to-Earth) system 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. 5.511C Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R 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 1340. 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 -146dB(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 Resolution 46 (Rev.WRC-97)/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). 5.512 Additional allocation: in Algeria, Angola, Saudi Arabia, Austria, Bahrain, Bangladesh, Bosnia and Herzegovina, Brunei Darussalam, Cameroon, the Congo, Costa Rica, Egypt, El Salvador, the United Arab Emirates, Finland, Guatemala, India, Indonesia, the Islamic Republic of Iran, Jordan, Kuwait, Libya, Malaysia, Morocco, Mozambique, Nepal, Nicaragua, Oman, Pakistan, Qatar, Singapore, Slovenia, Somalia, Sudan, Swaziland, Tanzania, Chad, Yemen and Yugoslavia, the band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. Spaceborne active sensors operating in the band 17.2-17.3 GHz shall not cause harmful interference to, or constrain the 5.513A development of, the radiolocation and other services allocated on a primary basis. 5.514 Additional allocation: in Algeria, Germany, Angola, Saudi Arabia, Austria, Bahrain, Bangladesh, Bosnia and Herzegovina, Cameroon, Costa Rica, El Salvador, the United Arab Emirates, Finland, Guatemala, Honduras, India, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Libya, Nepal, Nicaragua, Oman, Pakistan, Qatar, Slovenia, Sudan and Yugoslavia, 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. 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-

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 Regions 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-GSO FSS systems and of the complete coordination or notification information, as appropriate, for the GSO 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.

Additional allocation: the band 18.1 - 18.3 GHz is also allocated to the meteorological-satellite service (space-to-Earth) on a primary basis. Its use is limited to geostationary satellites and shall be in accordance with the provisions of Article 21, Table 21-4.

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

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KK-Joot-no	Kaato Kegutation Jootnote text
5.521	Alternative allocation: in Germany, Denmark, the United Arab Emirates, Greece and Slovakia, 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
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
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.
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/Resolution 46 (Rev.WRC-97) 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/Resolution 46 (Rev.WRC-97) 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.
5.523B	The use of the band 19.3 - 19.6 GHz (Earth-to-space) by the FSS is limited to feeder links for non-GSO systems in the MSS. Such use is subject to the application of the provisions of Resolution 46 (Rev.WRC-97)/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.
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 Resolution 46 (Rev.WRC-97)/ 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 Resolution 46 (Rev.WRC-97)/No. 9.11A and shall continue to be subject to Articles S9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2.
5.523E	No. 22.2 of the Radio Regulations 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.
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 allocation to the broadcasting-satellite service in the band 21.4 - 22 GHz shall come into effect on 1 April 2007. The use of this band by the broadcasting-satellite service after that date and on an interim basis prior to that date is subject to the provisions of Resolution 525 (WARC-92).
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.
5.535A	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 Resolution 46(Rev.WRC-97)/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 Resolution 46 (Rev.WRC-97)/No. 9.11A and shall continue to be subject to Articles S9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2.
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 installing earth exploration-satellite earth stations cannot claim protection from stations in the fixed and mobile services operated by neighbouring administrations. In addition, earth stations operating in the earth exploration-satellite service should take into account Recommendation ITU-R SA.1278.

RR-foot-no Radio Regulation footnote text 5.536B In Germany, Saudi Arabia, Austria, Belgium, Brazil, Bulgaria, China, the Republic of Korea, Denmark, Egypt, United Arab Emirates, Spain, Estonia, Finland, France, Hungary, India, Islamic Republic of Iran, Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Liechtenstein, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, Syria, Slovakia, Czech Republic, 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. Additional allocation: the bands 27.500 - 27.501 GHz and 29.999 - 30.000 GHz are also allocated to the fixed-satellite 5.538 service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such spaceto-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. In the band 27.500 - 27.501 GHz, such space-to-Earth transmissions shall not produce a power flux-density in excess of the values specified in Article 21, Table 21-4 on the Earth's surface. 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. 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. 5.544 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, Azerbaijan, Belarus, Georgia, Mongolia, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 31-31.3 GHz to the space research service is on a primary basis (see No. 5.33). 5.546 Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, Finland, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Latvia, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, Syria, Kyrgyzstan, Romania, the United Kingdom, the Russian Federation, Tajikistan, Turkmenistan, Turkey and Ukraine, 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). 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 5 547 high-density applications in the fixed service (see Resolutions 75(WRC-2000) and 79(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, administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate (see Resolution 84(WRC-2000)). 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 5.548 In designing systems for the inter-satellite and radionavigation services 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

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 (WARC-79)).

5.549

Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Egypt, the United Arab Emirates, Gabon, Indonesia, the Islamic Republic of Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Malaysia, Mali, Malta, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syria, Senegal, Singapore, Somalia, Sudan, Sri Lanka, Togo, Tunisia, Yemen and Zaire, the band 33.4-36 GHz is also allocated to the fixed and mobile services on a primary basis.

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Different category of service: in Armenia, Azerbaijan, Belarus, Georgia, Mongolia, Uzbekistan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 34.7-35.2 GHz to the space research service is on a primary basis (see No. 5.33).

5.551A

In the band 35.5 - 36.0 GHz, 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, meteorological aids and other services allocated on a primary basis.

KK-jooi-no	Audo Aeguation Journole text
5.551AA	In the bands 37.5-40 GHz and 42-42.5 GHz, non-GSO fixed-satellite service systems should employ power control or other methods of downlink fade compensation of the order of 10 dB, such that the satellite transmissions are at power levels required to meet the desired link performance while reducing the level of interference to the fixed service. The use of downlink fade compensation methods are under study by ITU-R (see Resolution 84(WRC-2000)).
5.551G	In order to protect the radio astronomy service in the band 42.5-43.5 GHz, the aggregate power flux-density in the 42.5-43.5 GHz band produced by all the space stations in any non-GSO FSS (space-to-Earth) or BSS (space-to-Earth) system operating in the 41.5-42.5 GHz band shall not exceed –167 dB(W/m2) in any 1 MHz band at the site of a radio astronomy station for more that 2% of the time. The power flux-density in the band 42.5-43.5 GHz produced by any GSO FSS (space-to-Earth) or BSS (space-to-Earth) station operating in the band 42.0-42.5 GHz shall not exceed –167 dB(W/m2) in any 1 MHz band at the site of a radio astronomy station. These limits are provisional and will be reviewed in accordance with Resolution 128 (Rev.WRC-2000).
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 (WRC-97).
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).
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
5.555	Additional allocation: the band 48.94-49.04 GHz is also allocated to the radio astronomy service on a primary basis.
5.555A	The band 50.2-50.4 GHz is also allocated, on a primary basis, to the fixed and mobile services until 1 July 2000.
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
5.556A	Use of the bands $54.25-56.9$ GHz, $57-58.2$ GHz and $59-59.3$ GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, shall not exceed -147 dB(W/m 2 /100 MHz) for all angles of arrival.
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 $-26 \text{ dB}(\text{W/MHz})$.
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).
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/m 2 /100 MHz) for all angles of arrival.
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).
5.559A	The band 75.5-76 GHz is also allocated to the amateur and amateur-satellite services on a primary basis until the year 2006.
5.56	The stations of services to which the bands 14-19.95 kHz and 20.05-70 kHz and in Region 1 also the bands 72-84 kHz and 86-90 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakstan, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, Russian Federation, Tajikistan, Turkmenistan and Ukraine, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same condi-tions. (WRC-97)
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.
5.560A	The 81-81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis.
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.
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.

RR-foot-no	Radio Regulation footnote text		
5.562A	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.		
5.562B	Use of this allocation is limited to space-based radio astronomy only		
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.		
5.562E	The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5-134 GHz.		
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		
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.		
5.562Н	Use of the bands 174.8-182 GHz and 185-190 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed –144 dB(W/(m2 ? MHz)) for all angles of arrival.		
5.563	In United Kingdom the band 182-185 GHz is also allocated to the fixed and mobile services on a primary basis		
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.		
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.		
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.		

Relevant CEPT ECC/ERC Decisions and Recommendations

ECCERC document	ECCERC document title		
ECC DEC (01)02	CT2 applications in 900 MHz		
ECC DEC (02)01	RTTT		
ECC DEC (02)03	Narrow Band Digital Land Mobile PMR/PAMR		
ECC DEC (02)04	Terrestrial (fixed service/broadcasting service) systems and uncoordinated Earth stations in the fixed satellite service and broadcasting-satellite service (space to Earth) in the band 40.5 – 42.5 GHz		
ECC DEC (02)05	Frequency bands for railway purposes 876-880/921-925 MHz		
ECC DEC (02)06	UMTS/IMT-2000 in the band 2500-2690 MHz		
ECC DEC (02)07	Harmonised use of 1670-1675/1800-1805 MHz withdrawal of teh ERC Decision (92)01 TFTS		
ERC DEC (00)01	Frequency bands for UMTS extending ERC DEC (97)07		
ERC DEC (00)02	37.5-40.5 GHz for Fixed and Fixed Satellite Service		
ERC DEC (00)07	Shared use of 17.7-19.7 GHz for Fixed and Fixed Satellite Service		
ERC DEC (00)08	Use of 10.7-12.5 GHz by the Fixed and Broadcasting-satellite/Fixed-satellite service		
ERC DEC (00)09	Use of 27.5-29.5 GHz by the Fixed and Fixed Satellite Service		
ERC DEC (01)01	Non-specific SRD in 6765-6795 kHz and 13.553-13.567 MHz		
ERC DEC (01)02	Non-specific SRD in 26.957-27.283 MHz		
ERC DEC (01)03	Non-specific SRD in 40.660-40.700 MHz		
ERC DEC (01)04	Non-specific SRD in 868-868.6 MHz, 868.7-869.2 MHz, 869.4-869.65 MHz and 869.7-870 MHz		
ERC DEC (01)05	Non-specific SRD in 2400-2483.5 MHz		
ERC DEC (01)06	Non-specific SRD in 5725-5875 MHz		
ERC DEC (01)07	Radio-LAN SRDs in 2400-2483.5 MHz		
ERC DEC (01)08	Movement Detection and Alert SRDs in 2400-2483.5 MHz		
ERC DEC (01)09	Alarm SRDs in 868.6-868.7 MHz,		
ERC DEC (01)10	Model control sRDs in 26.995, 27.045, 27.095, 27.145 and 27.195 MHz		
ERC DEC (01)11	Flying Model control in 34.995-35.225 MHz		
ERC DEC (01)12	Model control in 40.665, 40.675, 40.685 and 40.695 MHz		
ERC DEC (01)17	Medical implant SRDs in 402-405 MHz		
ERC DEC (01)18	Wireless Audio SRD Applications in 863-865 MHz		
ERC DEC (01)19	DMO frequencies for emergency services		
ERC DEC (01)20	Air-ground-Air (AGA) frequencies for emergency services		
ERC DEC (01)21	DMO frequencies for digital land mobile systems		
ERC DEC (94)01	Frequency bands for GSM systems		
ERC DEC (94)02	Frequencies for ERMES		
ERC DEC (94)03	Frequencies for DECT		
ERC DEC (95)03	Frequency bands for DCS 1800		
ERC DEC (96)01	Frequency bands for Emergency Services		
ERC DEC (96)02	Frequency bands and implementation of standard for CEPT PR27 equipment		
ERC DEC (96)04	Frequency bands for TETRA		
ERC DEC (96)06	Harmonised frequency bands for Social Alarms		
ERC DEC (97)02	Extended frequency bands for GSM		
ERC DEC (97)03	S-PCS in 1610-1626.5 MHz, 2483.5-2500 MHz, 1980-2010 MHz and 2170-2200 MHz		
12 Fohmam, 2002	Engage Common Allocation Table ECC Decompate Page 190		

ECCERC document	ECCERC document title
ERC DEC (97)04	Transitional arrangements for Fixed and Mobile-satellite service in 1980-2010 MHz and 2170-2200 MHz
ERC DEC (97)06	Harmonised frequency bands for Social Alarms
ERC DEC (97)07	Frequency bands for UMTS
ERC DEC (98)25	Harmonised frequency band for PMR446
ERC DEC (99)06	Harmonised introduction of S-PCS <1GHz
ERC DEC (99)15	Harmonised frequency band 40.5-43.5 GHz for MWS including MVDS
ERC DEC (99)17	Frequencies for Shipborne Automatic Identification System (AIS)
ERC DEC (99)23	Harmonised frequency bands for HIPERLANs
ERC DEC (99)25	Harmonised spectrum for UMTS in 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz
ECC REC 01-04	Multimedia Wireless Systems in the band 40.5 - 43.5 GHz
ECC REC 02-06	Digital Fixed Services Systems operating in the frequency range 7125-8500 MHz
ERC REC 00-04	Meteor scatter applications
ERC REC 00-05	Fixed wireless access in 24.5-26.5 GHz
ERC REC 01-01	Border coordination of UMTS/IMT-2000 systems
ERC REC 01-02	Channel arrangement for digital fixed service in 31.8-33.4 GHz
ERC REC 12-02	Channel arrangement for 12.75-13.25 GHz
ERC REC 12-03	Channel arrangement for 17.7-19.7 GHz
ERC REC 12-05	Channel arrangement for 10.0-10.68 GHz
ERC REC 12-06	Channel arrangement for 10.7-11.7 GHz
ERC REC 12-07	Channel arrangement for 15.23-15.35 GHz
ERC REC 12-08	Channel arrangement for 3600-4200 MHz
ERC REC 12-09	Channel arrangement for 57.0-59.0 GHz
ERC REC 12-10	Channel arrangement for 48.5-50.2 GHz
ERC REC 12-11	Channel arrangement for 51.4-52.6 GHz
ERC REC 12-12	Channel arrangement for 55.78-57.0 GHz
ERC REC 13-03	Use of the band 14.0-14.5 GHz for VSAT and SNG
ERC REC 13-04	Fixed Wireless Access in 3-29.5 GHz
ERC REC 14-01	Channel arrangement for 5925-6425 MHz
ERC REC 14-02	Channel arrangement for 6425-7125 MHz
ERC REC 14-03	Channel arrangement for 3400-3600 MHz
ERC REC 25-10	Frequencies for ENG/OB video links
ERC REC 62-01	135.7-137.8 kHz for the Amateur Service
ERC REC 62-02	Civil and Military Airborne Telemetry applications
ERC REC 70-03	ERC Recommendation relating to the use of Short Range Devices (SRD)
ERC REC T/R 02-02	Harmonised frequency band for the emergency services
ERC REC T/R 12-01	Channel arrangements for analogue and digital terrestrial fixed systems in 37-39.5 GHz
ERC REC T/R 13-01	Channel arrangement for fixed services in the range 1-3 GHz
ERC REC T/R 13-02	Channel arrangement for fixed services in the range 22.0-29.5 GHz
ERC REC T/R 22-01	Frequencies likely to be allocated to international railways
ERC REC T/R 22-03	Terrestrial fixed and mobile systems in 54.25-66 GHz

ERC REC T/R 22-05

Frequencies for mobile digital trunked radio systems

ECCERC document	ECCERC document title		
ERC REC T/R 22-06	HIPERLANs in the 5 GHz and 17 GHz frequency range		
ERC REC T/R 22-07	Frequency bands for DCS1800		
ERC REC T/R 25-05	Broadcasting and Land Mobile Service planning parameters for TV band I and III		
ERC REC T/R 25-06	Broadcasting and Land Mobile Service planning parameters for TV band I and III		
ERC REC T/R 25-08	Land Mobile Service in the range 29.7 - 960 MHz		
ERC REC T/R 25-09	Frequencies in the 900 MHz band for railways		
ERC REC T/R 32-02	On-board communication stations		
ERC REC T/R 42-01	Frequencies for TFTS		

Standard name	Short Standard title	Harmonised Standard Art 3.2 of RTTE Directive
EN 300 065	Navtex	EN 300 065-2
EN 300 086	PMR analogue speech	EN 300 082-2
EN 300 113	PMR Data and speech	EN 300 113-2
EN 300 135	CB - FM	EN 300 135-2
EN 300 152	EPIRB	EN 300 152-2
EN 300 162	Maritime mobile VHF	EN 300 162-2
EN 300 219	PMR internal antenna analogue speech	EN 300 219-2
EN 300 220	SRD 25 - 1000 MHz	EN 300 220-3
EN 300 224	On site paging	EN 300 224-2
EN 300 296	PMRintegral antenna analogue speech	EN 300 296-2
EN 300 328	RLANs	EN 300 328-2
EN 300 330	SRD 9 kHz - 25 MHz	EN 300 330-2
EN 300 341	PMR specific response	EN 300 341-2
EN 300 390	PMR data and speech integral antenna	EN 300 390-2
EN 300 422	Radio microphones	EN 300 442-2
EN 300 433	CB DSB and SSB	EN 300 433-2
EN 300 440	SRD 1-40 GHz	EN 300 440-2
EN 300 471	Access protocol	EN 300 471-2
EN 300 674	RTTT in 5.8 GHz	EN 300 674-2
EN 300 698	Maritime inland waterways	EN 300 698-3
EN 300 718	Avalanche Beacons	EN 300 718-2
EN 300 720	UHF on bord communication	EN 300 720-2
EN 300 761	AVI for railways	EN 300 761-2
EN 300 836	HIPERLANS	EN 300 836
EN 301 025	DCS VHF bands	EN 301 025-2
EN 301 091	RTTT in 76-77 GHz	EN 301 091-2
EN 301 178	Portable maritime non GMDSS	EN 301 178-2
EN 301 357	SRD Audio in 863-865 MHz	EN 301 357-2
EN 301 360	FSS - SIT	EN 301 360-2
EN 301 406	DECT	EN 301 406
EN 301 419	GSM	EN 301 502-3

Short Standard title	Harmonised Standard Art 3.2 of RTTE Directive
TFTS	EN 301 423
LMES in 1.5/1.6 GHz	EN 301 426
LMES in 11/12/14 GHz	EN 301 427
VSAT in 11/12/14 GHz	EN 301 428
SNG in 11/12/14 GHz	EN 301 430
S-PCN in 1.6/2.4 GHz	EN 301 441
S-PCN in 2 GHz	EN 301 442
VSAT in 4 and 6 GHz	EN 301 443
LMES in 1.5/1.6 GHz	EN 301 444
SIT/SUT in 29.5-30 GHz	EN 301 459
GSM base stations an repeater	EN 301 502
GSM/DCS mobile stations	EN 301 511
mobile earth st S-PCN 1.5/1.6 GHz	EN 301 681
MES LEO below 1 GHz	EN 301 721
Point to point digital fixed links	EN 301 751
Point to multipoint digital fixed links	EN 301 753
Amateur radio equipment	EN 301 783-2
CT1 and CT1+	EN 301 796
CT2	EN 301 797
Radio microphones in 1785-1800 MHz	EN 301 840
TETRA	EN 303 035-2
	TFTS LMES in 1.5/1.6 GHz LMES in 11/12/14 GHz VSAT in 11/12/14 GHz SNG in 11/12/14 GHz S-PCN in 1.6/2.4 GHz S-PCN in 2 GHz VSAT in 4 and 6 GHz LMES in 1.5/1.6 GHz SIT/SUT in 29.5-30 GHz GSM base stations an repeater GSM/DCS mobile stations mobile earth st S-PCN 1.5/1.6 GHz MES LEO below 1 GHz Point to point digital fixed links Point to multipoint digital fixed links Amateur radio equipment CT1 and CT1+ CT2 Radio microphones in 1785-1800 MHz

LIST OF ABBREVIATIONS AS USED IN THIS DOCUMENT

AGA - Air Ground Air

BSS - Broadcasting Satellite Service

- European Conference of Postal and Telecommunications Administrations

CRS - Central Radio Station

DCS 1800 - Digital Communication System

DEC - ERC Decision

DECT - Digital European Cordless Telecommunication System

DME - Distance Measuring Equipment

DMO - Direct Mode Operation

DSI - Detailed Spectrum Investigation

DVB-T - Terrestrial Digital Video Broadcasting

ECA - European Common Allocation

ECC - Electronic Communications Committee

ECP - European Common Proposal

EESS - Earth Exploration-Satellite Service

EGSM - Extended GSM

ENG - Electronic News Gathering

EPIRB - Emergency Position-Indicating Radiobeacon

ERC - European Radiocommunications Committee

ERMES - European Radio Messaging System
 ERO - European Radiocommunications Office
 FB - Base station (in a mobile radio system)

FDD - Frequency Division Duplex
FM - Frequency modulation
FSS - Fixed Satellite Service
FWA - Fixed Wireless Access

GMDSS - Global Maritime Distress and Safety System

GNSS - Global Navigation Satellite System

GSM - Global System for Mobile Communications

HAPS - High Altitude Platform SystemsHDTV - High Definition Television

HIPERLAN - High Performance Radio Local Area Network

IBCN - Integrated Broadband Communications Network

ILS - Instrument Landing System

UMTS/IMT-2000- International Mobile Telecommunications

ISM - Industrial, Scientific and Medical applications

ITU - International Telecommunication Union

JTIDS - Joint Tactical Information Distribution System

MIDS - Multifunctional Information Distribution System

ML - Mobile station (in a mobile radio system)

MLS - Microwave Landing SystemMSI - Maritime Safety InformationMSS - Mobile Satellite Service

MWS - Multimedia Wireless Systems

NATO - North Atlantic Treaty Organisation

NGSO - Non-geostationary Satellite Orbit

OB - Outside Broadcasting

OR - Off-Route

PAMR - Public Access Mobile Radio (PMR)

PMR - Professional Mobile Radio, Private Mobile Radio

R - Route

RA - Radio Astronomy

SAB - Services Ancillary to Broadcasting
SAP - Services Ancillary to Programming

S-PCS - Satellite Personal Communication System

TETRA - Trans European Trunked Radio

RFID - Radio Frequency Identification systems

RLAN - Radio Local Area Network

RR - Radio Regulations

RTTT - Road Transport & Traffic Telematics

SNG - Satellite News Gathering
SRD - Short Range Devices

SSR - Secondary Surveillance Radar

T-DAB - Terrestrial Digital Audio Broadcasting

TACAN - Tactical Air Navigation System

TFTS - Terrestrial Flight Telecommunications System

TS - Terminal Station

UMTS/IMT-2000- International Mobile Telecommunications

VLBI - Very Long Baseline Interferometry (Radio Astronomy)

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

WARC-92 - World Administrative Radio Conference 1992

WRC(95) - World Radiocommunication Conference 1995 (or other year)