



Commission for  
**Communications Regulation**

# COMREG

## Radio Frequency Plan for Ireland

### Document Revision History

Document Version	Date	Nature of Revision
08/90R2	23 December 2010	Update of Radio Spectrum Requirements within Ireland
08/90R1	22 December 2009	Update of Radio Spectrum Requirements within Ireland
08/90	20 November 2008	Original Document

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I am pleased to present the fourth edition of the Radio Frequency Plan for Ireland. Ten years have passed since publication of the first edition and, in tandem with the rapid and dynamic growth of the Irish economy, the task of managing the radio spectrum has become increasingly complex. The ubiquitous presence of applications and services that utilise the Radio Spectrum has placed unparalleled demands on achieving higher efficiency and economy of use on this finite resource, which in turn places greater emphasis on the importance of its efficient management.

Radio frequency spectrum is a crucial resource which contributes significantly to such key areas as the Telecommunications, Broadcasting, Emergency Services and Transport sectors within Ireland. Furthermore, the use of radio spectrum for consumer products and services which we use in the home, in the office or on the move, as can be the case in today's increasingly mobile environment, has increased dramatically. Consequently, the task of managing this resource has become more challenging than ever.

The provision of clear, complete and accurate information on the radio frequency spectrum is therefore essential for all stakeholders. Moreover, section 35 of the Communications Act, 2002, states that ComReg is obliged to produce, publish and maintain the national Radio Frequency Plan, which details all radio frequency allocations in Ireland. The last complete revision took place in 2004, with numerous lesser revisions taking place in the interim, reflecting all relevant amendments and updates on both a national and international level applicable to Ireland. This latest edition details several significant amendments that were

introduced at the World Radiocommunication Conference held in 2007 (WRC-07), in addition to citing all required updates on national and European legislation, together with the applicable CEPT<sup>1</sup> Decisions and Recommendations.

With this publication of the Radio Frequency Plan, ComReg maintains and develops its commitment to all stakeholders, ensuring that a comprehensive source of information is made available, providing key data on current and potential radio spectrum allocations in Ireland. This document therefore aims to inform a diverse range of stakeholders, including current and potential users of the radio spectrum.

ComReg welcomes views and any proposed amendments or changes in relation to the Radio Frequency Plan, and for this reason a comment form is included at the end of the document for your convenience.

**John Doherty**  
**Chairperson**  
**Commission for Communications Regulation**  
**November 2008**

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<sup>1</sup> European Conference of Postal and Telecommunications Administrations: <http://www.cept.org/>.



This document contains the Radio Frequency Plan for Ireland as revised on 23 December 2010. In combination with using this document, users are advised to refer to the ComReg website<sup>2</sup> for further updates to the Plan.

The document is divided into ten sections. The tables of frequency allocations are contained within three of these sections. Section 3 contains the frequency plan for the 9 kHz to 27 500 kHz band. Section 4 contains the frequency plan for the 27.5 MHz – 10 000 MHz band. Section 5 contains the frequency plan for the 10 GHz – 1000 GHz band, followed by Annexes to the document.

For each frequency band, the types of radio services that are permitted for operation in Ireland and those radio services that are currently in use in that band are detailed. In addition, the International Telecommunications Union (ITU) Allocations applicable to Ireland and the associated European Common Allocation (from ERC Report 025<sup>3</sup>) for each frequency band are outlined, along with applicable national and European legislation, relevant European Decisions and Recommendations and ComReg documentation.

It should be noted that this Table of Frequency Allocations will be regularly updated to facilitate the introduction of new radio services and to remove allocations for radio services that have been phased out. Amendments will also be made to align the document to any new international agreements reached on spectrum utilisation e.g. at World Radiocommunication Conferences (WRCs) of the ITU or within CEPT or the European Union.

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<sup>2</sup> [http://www.comreg.ie/radio\\_spectrum/table\\_of\\_frequency\\_allocations.496.410.html](http://www.comreg.ie/radio_spectrum/table_of_frequency_allocations.496.410.html)

<sup>3</sup> <http://www.ero.dk/documentation/docs/doc98/official/pdf/ERCREP025.PDF>



# Structure of the Plan

Below is an example only and does not necessarily reflect the accurate situation for this frequency band which is given in the detailed tables of this publication.

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
68 - 74.8	FIXED MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	VHF Low band: Land Mobile PMR, Community Repeaters and Third Party Business Radio	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended, S.I. 435 of 2002, S.I. 83 of 1988 , S.I. 646 of 2005	ECC/DEC(06)06 Recommendation T/R 25-08	ComReg Documents: 02/02R, 02/03R, 00/07R2.
		Radio Astronomy				
	5.149	5.149 EU2 EU4 EU27	Amateur (secondary) (70.125-70.450 MHz)	National Legislation: S.I. 192 of 2009		
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7

## Explanations

- Column 1:** Values in this column denote the radio frequency band. Units used in the column header are: kHz indicates kilohertz, MHz indicates Megahertz and GHz indicates Gigahertz.
- Column 2:** This column shows the type of service allocated to the band by the ITU, e.g. (FIXED, MOBILE). These allocations are defined in the ITU Radio Regulations. Entries in UPPER CASE denote primary services while entries in lower case denote secondary services as defined in the Radio Regulations. Footnotes (e.g. 5.149) are the footnotes to the Table of Frequency Allocations as detailed in the Radio Regulations. Only footnotes relevant to Ireland are included in this table, the full text of which appears in Chapter 3 Annex 1.
- Column 3:** This column indicates the European Common Allocation for the band according to ERC Report 025. ERC Report 025 represents the strategic objective of CEPT to achieve a harmonised table of frequency allocations and utilisations in Europe. Entries in UPPER CASE denote primary services while entries in lower case denote secondary services as defined in the Radio Regulations.
- Column 4:** This column indicates the current national usage of the frequency band in Ireland.
- Column 5:** This column details the national and European Legislation applicable to the frequency band.
- Column 6:** This column details the relevant CEPT Decisions and Recommendations applicable to the frequency band.
- Column 7:** This column gives relevant document references as well as other additional information applicable to the frequency band.



# Example of using the Tables

Below is an example only and does not necessarily reflect the accurate situation for this frequency band which is given in the detailed tables of this publication.

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
402 - 403	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological Aids (Radiosondes)			
	EARTH EXPLORATION-SATELLITE (E/S)	EARTH EXPLORATION-SATELLITE (E/S)				
	METEOROLOGICAL-SATELLITE (E/S)	METEOROLOGICAL-SATELLITE (E/S)				
	Fixed					
	Mobile except aeronautical mobile					
				Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  Decision 2006/771/EC	ERC/DEC(01)17
		EU2				
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7

The first column indicates the frequency band as the spectrum from 402 -403 MHz.

The second column indicates that the ITU have allocated this band to five services, namely to Metrological aids, Earth-Exploration Satellite service and, meteorological satellite, the Fixed service and the Mobile service but excluding the aeronautical mobile service. The allocations to Metrological aids, Earth-Exploration Satellite service and the meteorological satellite services are on a primary basis, as indicated by the use of UPPER CASE letters. The allocations to the Fixed service and the Mobile except aeronautical mobile service are on a secondary basis. Secondary services shall not cause interference to primary services, nor shall they claim protection from harmful interference from primary services but they can claim protection from other stations of the same of other secondary services to which frequencies are assigned at a later date.

# Example of using the Tables

Where a footnote appears on the same line as a service this indicates that the footnote is directly applicable to the service that it shares a line with. Generic footnotes (e.g. EU2) appear in a separate rows to the listed radio services as they are not directly applicable to them.

ITU Footnotes e.g. 5.92 (not relevant to this example) mentioned in the tables below may be found in Chapter 3 Annex 1 of this document while European Footnotes may be found in Chapter 3 Annex 2:

The third column indicates the European Common Allocation for the frequency band as outlined in ERC Report 025<sup>2</sup>.

The fourth column indicates the national usage for the frequency band. In Ireland the band 402 - 403 MHz is used by meteorological aids and Short Range Devices.

The fifth column details the relevant national and European legislation. In Ireland Primary legislation is in the form of Acts and secondary legislation is in the form of Statutory Instruments (S.I.).

The sixth column details any relevant CEPT Decisions or Recommendations applicable to the frequency band. These references are available to download from [www.ero.dk](http://www.ero.dk).

The seventh column contains relevant notes and references such as:

- Relevant ComReg documents which can be downloaded from [www.comreg.ie](http://www.comreg.ie).
- Applicable sections of the ITU Radio Regulations e.g. Appendix 16 of Radio Regulations (not relevant to this example).
- Applicable regional frequency plans e.g. ITU Stockholm 1961 plan (not relevant to this example).

# Disclaimer

The information in this document is made available by the Commission for Communications Regulation (ComReg) on the understanding that it is for information purposes only. It is not intended to form the basis of any investment decision and should not be considered as a recommendation by the Commissioners or their advisors to participate in any tender for the allocation of radio spectrum.

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Recipients of this document in any format should obtain their own professional, financial, legal or other advice in order to make an independent assessment of the potential value of any allocation of radio spectrum by what ever means applicable. The policy of ComReg is to correct and update the document at regular intervals.

Web addresses are referenced throughout this document for convenience only. Please note that ComReg is not responsible for the content of external websites.

Spectrum from 9 kHz to 27500 kHz

03



## GENERAL INFORMATION

All radio and telecommunications terminal equipment must comply with the R&TTE Directive. Please see [http://www.comreg.ie/radio\\_spectrum/randtte.543.420.html](http://www.comreg.ie/radio_spectrum/randtte.543.420.html) for further details.

All apparatus for Wireless Telegraphy requires a licence unless it has been specifically exempted from licensing under Irish Legislation by means of an Exemption Order. Please see [http://www.comreg.ie/radio\\_spectrum/exemptions.541.488.rslicensing.html](http://www.comreg.ie/radio_spectrum/exemptions.541.488.rslicensing.html) for further details.

The following references apply to the spectrum from 9 kHz to 27 500 kHz:

1. Commission Decision 676/2002/EC of the European Parliament and of the Council of 7 March 2002 on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision).  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2002/l\\_108/l\\_10820020424en00010006.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2002/l_108/l_10820020424en00010006.pdf)
2. Commission Decision 2007/131/EC of 21 February 2007 on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2007/l\\_055/l\\_05520070223en00330036.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2007/l_055/l_05520070223en00330036.pdf)
3. Commission Decision 2009/343/EC of 21 April 2009 amending Decision 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.  
See: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:105:0009:0013:EN:PDF>
4. ECC Decision (06)04 of 24 March 2006 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz.  
See: <http://www.erodocdb.dk/docs/doc98/Official/Pdf/ECCDec0604.pdf>
5. ECC Decision (06)12 of 01 December 2006 on supplementary regulatory provisions to Decision ECC/DEC/(06)04 for UWB devices using mitigation techniques (amended 31 October 2008).  
See: <http://www.erodocdb.dk/Docs/doc98/official/pdf/ECCDEC0612amended.PDF>
6. Directive 1999/5/ec of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/1999/l\\_091/l\\_09119990407en00100028.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/1999/l_091/l_09119990407en00100028.pdf)
7. Wireless Telegraphy Act, 1926 (Number 45 of 1926). See <http://www.irishstatutebook.ie/1926/en/act/pub/0045/index.html>
8. Commission Decision 2006/771/EC of 09 November 2006 on harmonisation of the radio spectrum for use by short-range devices.

# 9 kHz to 27500 kHz

9. Commission Decision 2010/368/EU of 30 June 2010 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.
10. S.I. 193 of 2009, "Wireless Telegraphy (Aircraft Station Licence) Regulations 2009", applies to licences to keep, have possession of, install, maintain, work and use apparatus for wireless telegraphy forming part of an Aircraft Station, and having the characteristics set out therein.  
See: <http://www.comreg.ie/fileupload/publications/SI193of2009.pdf>
11. S.I. 369 of 2009, "Wireless Telegraphy (Radiodetermination, Air Traffic and Maritime Services) Regulations 2009", applies to Licences to keep, have possession of, install, maintain, work and use apparatus for wireless telegraphy for the purpose of the provision of Radiodetermination Services, Air Traffic Service Systems or Maritime Service Systems, and having the characteristics set out therein.  
See: <http://www.comreg.ie/fileupload/publications/SI369of2009.pdf>

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
Below 9	(Not Allocated) 5.53 5.54	Not Allocated				
9 - 14	RADIONAVIGATION	RADIONAVIGATION	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
14 - 19.95	FIXED	FIXED				
	MARITIME MOBILE 5.57	MARITIME MOBILE 5.57	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	5.56	5.56 EU 2				
19.95 - 20.05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	Standard Frequency and Time Signal (Reception)			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
20.05 - 70	FIXED	FIXED				
	MARITIME MOBILE 5.57	MARITIME MOBILE 5.57	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	5.56	5.56 EU2				
70 - 72	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				



# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
72 - 84	FIXED	FIXED				
	MARITIME MOBILE 5.57	MARITIME MOBILE 5.57				
	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60				
	5.56	5.56 EU2	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
84 - 86	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
86 - 90	FIXED	FIXED				
	MARITIME MOBILE 5.57	MARITIME MOBILE 5.57				
	RADIONAVIGATION	RADIONAVIGATION				
	5.56	5.56 EU2	Paging (Commercial Firms) Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
90 - 110	RADIONAVIGATION 5.62	RADIONAVIGATION 5.62	Radionavigation			LORAN C system
	Fixed	Fixed				
	5.64	5.64 EU2	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
110 - 112	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	RADIONAVIGATION	RADIONAVIGATION	Radionavigation			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
5.64	5.64 EU2					
112 - 115	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
115 - 117.6	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation			
	Fixed	Fixed				
	Maritime Mobile	Maritime Mobile				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
5.64	5.64 EU2					
117.6 - 126	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
5.64	5.64 EU2					

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
126 - 129	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
129 - 130	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	5.64	5.64 EU2				
130 – 135.7	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	5.64	5.64 EU2				
135.7 – 137.8	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	Amateur 5.67A	Amateur 5.67A	Amateur			See ComReg document 02/05R5
			Weather Chart Reception			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
137.8 - 148.5	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	5.64	5.64 EU2	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
148.5 - 255	BROADCASTING	BROADCASTING	Broadcasting (AM Sound)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		GE75 Plan
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
255 - 283.5	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION				
	BROADCASTING	BROADCASTING	Broadcasting (AM Sound)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		GE75 Plan.
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R

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Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
283.5 - 315	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION				GE85-EMA
	MARITIME RADIONAVIGATION (Radio beacons) 5.73	MARITIME RADIONAVIGATION (Radiobeacons) 5.73	Maritime Radionavigation: Radiobeacons and DGPS	National Legislation: S.I. 414 of 2006		Transmission of DGPS signals GE85-EMA ITU-R M.823 and ITU-R M.588-1
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	5.74	5.74 EU2				
315 - 325	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: Non-directional beacons	National Legislation: S.I. 855 of 2004		Annex 10 of the Convention on International Civil Aviation applies
	Maritime Radionavigation (Radiobeacons) 5.73	Maritime Radionavigation (Radiobeacons) 5.73				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	5.72	EU2				
325 - 405	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: Non-Directional Beacons	National Legislation: S.I. 855 of 2004		Annex 10 of the Convention on International Civil Aviation applies
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
405 - 415	RADIONAVIGATION 5.76	RADIONAVIGATION 5.76	Aeronautical Radionavigation: Non-Directional Beacons	National Legislation: S.I. 855 of 2004		Annex 10 of the Convention on International Civil Aviation applies
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
415 - 435	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: Radiobeacons			GE85-MM-R1
	MARITIME MOBILE 5.79	MARITIME MOBILE 5.79	Maritime Mobile (DSC)	National legislation : S.I. 414 of 2006		GE85-MM-R1
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
435 - 495	MARITIME MOBILE 5.79 5.79A	MARITIME MOBILE 5.79 5.79A	Maritime Mobile	National legislation: S.I. 414 of 2006		GE85-MM-R1
			NAVTEX reception			490 kHz used for national language transmissions
			Receiver IF			455 – 457 kHz
	Aeronautical Radionavigation	Aeronautical Radionavigation				
				Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03
5.82	5.82 EU2					
495 - 505	MOBILE (distress and calling)	MOBILE (distress and calling)	Maritime GMDSS			500 kHz is an international Distress and Calling Frequency for Morse telegraphy
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
	5.82A 5.82B	5.82A 5.82B				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
505 - 526.5	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radio Beacons (510-526.5 kHz)			GE85-MM-R1
	MARITIME MOBILE 5.79 5.79A 5.84	MARITIME MOBILE 5.79 5.79A 5.84	Maritime Mobile	National legislation : S.I. 414 of 2006		GE85-MM-R1
			NAVTEX reception			518 kHz is used exclusively by the international NAVTEX system.
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.
	EU2					
526.5 - 1606.5	BROADCASTING	BROADCASTING	Broadcasting (AM Sound)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		GE75 Plan
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.



# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1606.5 - 1625	FIXED	FIXED				GE85-MM-R1
	LAND MOBILE	LAND MOBILE				GE85-MM-R1
	MARITIME MOBILE 5.90	MARITIME MOBILE 5.90	Maritime Mobile (DSC)	National legislation : S.I. 414 of 2006		GE85-MM-R1
	5.92	Radiolocation 5.92 EU2				
1625 - 1635	RADIOLOCATION	RADIOLOCATION	Radiolocation			
		5.93 EU2				
1635 - 1800	FIXED	FIXED				GE85-MM-R1
	LAND MOBILE	LAND MOBILE				GE85-MM-R1
	MARITIME MOBILE 5.90	MARITIME MOBILE 5.90	Maritime Mobile Radiolocation: Position Fixing	National legislation : S.I. 414 of 2006		GE85-MM-R1
	5.92 5.96	5.92 EU2 5.96	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
1800 - 1810	RADIOLOCATION	RADIOLOCATION	Radiolocation: Position Fixing			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
		5.93 EU2				
1810 - 1850	AMATEUR	AMATEUR	Amateur (Primary)	National Legislation: S.I. 192 of 2009		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
	5.100	5.98 EU2 5.100				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1850 - 2000	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE				
			Radiolocation: Position Fixing			
			Amateur (Primary)	National Legislation: S.I. 192 of 2009		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
	5.92 5.96 5.103	5.92 EU2 5.96 5.103				
2000 - 2025	FIXED	FIXED	Fixed			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	Maritime Mobile	National legislation : S.I. 414 of 2006		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
	5.92 5.103	5.92 EU2 5.103				
2025 - 2045	FIXED	FIXED				
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
	Meteorological aids 5.104					
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R
		5.92 5.103	5.92 EU2 5.103 5.104			

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2045 - 2160	FIXED	FIXED	Maritime Mobile	National legislation : S.I. 414 of 2006		GE85-MM-R1
	LAND MOBILE	LAND MOBILE				GE85-MM-R1
	MARITIME MOBILE	MARITIME MOBILE				GE85-MM-R1
	5.92	5.92	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
2160 - 2170	RADIOLOCATION	RADIOLOCATION	Radiolocation			
		5.93 EU2	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
2170 - 2173.5	MARITIME MOBILE	MARITIME MOBILE				
		EU2	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R
2173.5 - 2190.5	MOBILE (distress and calling)	MOBILE (distress and calling)	Maritime GMDSS	National Legislation: S.I. 414 of 2006		International Distress and Calling frequency (2182 kHz) EPIRBs and 2187.5 kHz for DSC distress and calling
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R
	5.108 5.109 5.110 5.111	5.108 EU2 5.109 5.110 5.111				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2190.5 - 2194	MARITIME MOBILE	MARITIME MOBILE				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R
		EU2				
2194 - 2300	FIXED	FIXED	Fixed			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	Maritime Mobile	National legislation: S.I. 414 of 2006		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
	5.92 5.103	5.92 EU2 5.103				
2300 - 2498	FIXED	FIXED				
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	Maritime Mobile	National legislation: S.I. 414 of 2006		
	BROADCASTING 5.113					
	5.103	5.103 EU2				
2498 - 2501	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	Standard Frequency and Time Signal (Reception)			
2501 -2502	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard Frequency and Time Signal (Reception)			
	Space Research	Space Research				
2502 -2625	FIXED	FIXED	Fixed			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	Maritime Mobile	National legislation: S.I. 414 of 2006		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
	5.92 5.103	5.92 EU2 5.103				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2625 - 2650	MARITIME MOBILE	MARITIME MOBILE	Maritime Mobile	National legislation: S.I. 414 of 2006		International Intership Communications
	MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
5.92		5.92 EU2				
2650 - 2850	FIXED	FIXED	Fixed			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	Maritime Mobile	National legislation: S.I. 414 of 2006		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
5.92 5.103		5.92 5.103				
2850 - 3025	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (Government Services), Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan  Annex 10 of the Convention on International Civil Aviation applies
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
	5.111 5.115		5.111 5.115			

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
3025 - 3155	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services)			ITU Radio Regulations Appendix 26 Allotment Plan
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.
3155 - 3200	FIXED	FIXED				
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
	5.116	5.116 EU2				
3200 - 3230	FIXED	FIXED				
	BROADCASTING 5.113					
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
	5.116	5.116 EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
3230 - 3400	FIXED	FIXED	Fixed (Government Services, Commercial Firms)			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	BROADCASTING 5.113		Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.
	5.116	5.116 EU2				
3400 - 3500	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan including HF data links.  Annex 10 of the Convention on International Civil Aviation applies
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R.

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
3500 - 3800	AMATEUR	AMATEUR	Amateur	National legislation: S.I. 192 of 2009		
	FIXED	FIXED	Fixed			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Maritime Mobile	National Legislation: S.I. 414 of 2006		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R
	5.92	5.92 EU2				
3800 - 3900	FIXED	FIXED				
	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
	LAND MOBILE	LAND MOBILE EU2				
3900 - 3950	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services)			ITU Radio Regulations Appendix 26 Allotment Plan
	5.123					
3950 - 4000	FIXED	FIXED				
	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception)			
		EU2				



# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
4000 - 4063	FIXED	FIXED				
	MARITIME MOBILE 5.127	MARITIME MOBILE 5.127	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan
		EU2				
4063 - 4438	MARITIME MOBILE 5.79A 5.109 5.110	MARITIME MOBILE 5.79A 5.109 5.110	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.  DSC Calling on 4208 kHz, 4208.5 kHz, 4219.5 kHz, 4220 kHz and 4220.5 kHz.  DSC distress traffic on 4207.5 kHz.  Maritime Safety Information on 4210 kHz.  Meteorological and navigation warnings on 4209.5 kHz.  Telex Distress Traffic on 4177.5 kHz  Telephony distress traffic and calling by rescue centres on 4125 kHz
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	5.128 5.130 5.131 5.132	5.128 EU2 5.130 5.131 5.132				
4438 - 4650	FIXED	FIXED	Fixed (Government Services)			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
4650 - 4700	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (Government Services), Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan including HF Data Links.  Annex 10 of the Convention on International Civil Aviation.
4700 - 4750	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services)			ITU Radio Regulations Appendix 26 Allotment Plan.
4750 - 4850	FIXED	FIXED				
	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
	LAND MOBILE	LAND MOBILE				
	BROADCASTING 5.113					
4850 - 4995	FIXED	FIXED	Fixed			
	LAND MOBILE	LAND MOBILE				
	BROADCASTING 5.113					
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
4995 - 5003	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	Standard Frequency and Time Signal (Reception)			
5003 - 5005	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard Frequency and Time Signal (Reception)			
	Space Research	Space Research				
5005 - 5060	FIXED	FIXED				
	BROADCASTING 5.113	EU2				
5060 - 5250	FIXED	FIXED	Fixed			
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
		EU2				
5250 - 5450	FIXED	FIXED	Fixed (Government Services)			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
		EU2				
5450 - 5480	FIXED	FIXE				
	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
	LAND MOBILE	LAND MOBILE				
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
5480 - 5680	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan including HF Data Links.  Annex 10 of the Convention on International Civil Aviation
	5.111 5.115	5.111 5.115				
5680 - 5730	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services)			ITU Radio Regulations Appendix 26 Allotment Plan
	5.111 5.115	5.111 5.115				
5730 - 5900	FIXED	FIXED	Fixed (Government Services)			
	LAND MOBILE	LAND MOBILE EU2				
5900 - 5950	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.136	5.136				
5950 - 6200	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
6200 - 6525	MARITIME MOBILE 5.109 5.110 5.130	MARITIME MOBILE 5.109 5.110 5.130	Maritime Mobile	National legislation: S.I. 414 of 2006		<p>ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.</p> <p>DSC Calling on 6312.5 kHz, 6313 kHz, 6313.5 kHz, 6331 kHz, 6331.5 kHz and 6332 kHz.</p> <p>DSC distress traffic on 6312 kHz.</p> <p>Maritime Safety Information on 6314 kHz.</p> <p>Telex Distress Traffic on 6268 kHz</p> <p>Telephony distress traffic and calling by rescue centres on 6215 kHz.</p>
	5.132 5.137	5.132 EU2 5.137				
6525 - 6685	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (Government Services)	National Legislation: S.I. 855 of 2004		<p>ITU Radio Regulations Appendix 27 Allotment Plan including HF Links.</p> <p>Annex 10 of the Convention on International Civil Aviation</p>
6685 - 6765	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services)			ITU Radio Regulations Appendix 26 Allotment Plan.

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
6765 - 7000	FIXED	FIXED	Fixed			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
	5.138 5.138A	5.138 EU2 5.138A				
7000 - 7100	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR - SATELLITE	AMATEUR - SATELLITE	Amateur - Satellite			
7100 - 7200	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009	ECC/REC(05)05	Amateur operation on a secondary basis.
			Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.141C	5.141C				
7200 – 7300	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
7300 - 7400	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.143 5.143B	5.143 5.143B				
7400 - 7450	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.143B	5.143B	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.
7450 - 8100	FIXED	FIXED	Fixed			
	Mobile except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
	5.143E	5.143E EU2	Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
8100 - 8195	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE	Maritime Mobile	National Legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.
		EU2				
8195 - 8815	MARITIME MOBILE 5.109 5.110 5.132	MARITIME MOBILE 5.109 5.110 5.132	Maritime Mobile	National Legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.  DSC Calling on 8415 kHz, 8415.5 kHz, 8416 kHz, 8437 kHz, 8437.5 kHz.  DSC distress traffic on 8414.5 kHz.  Survival craft stations on 8364 kHz  Maritime Safety Information on 8416.5 kHz.  Telex Distress Traffic on 8376.5 kHz.  Telephony distress traffic and calling by rescue centres on 8291 kHz.



# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R.
	5.145 5.111	5.145 EU2 5.111				
8815 - 8965	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan including HF data links.  Annex 10 of the Convention on International Civil Aviation.
8965-9040	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services), Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 26 Allotment Plan.  Annex 10 of the Convention on International Civil Aviation
9040 - 9400	FIXED	FIXED	Fixed			
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
9400 - 9500	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.146	5.146				
9500 - 9900	BROADCASTING 5.147	BROADCASTING 5.147	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
9900 - 9995	FIXED	FIXED				
		EU2				
9995 - 10003	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz)	Standard Frequency and Time Signal (Reception)			
	5.111	5.111				
10003 - 10005	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard Frequency and Time Signal (Reception)			
	Space Research	Space Research				
	5.111	5.111				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
10005 - 10100	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan, including HF data links.  Annex 10 of the Convention on International Civil Aviation
	5.111	5.111				
10100 - 10150	FIXED	FIXED				
	Amateur	Amateur  EU2	Amateur (secondary)	National Legislation: S.I. 192 of 2009		
10150 - 11175	FIXED	FIXED	Fixed			
	Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
11175 - 11275	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Service), Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 26 Allotment Plan and Annex 10 of the Convention on International Civil Aviation
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
11275 - 11400	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile (Government Service), Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan, including HF data links.  Annex 10 of the Convention on International Civil Aviation
11400 - 11600	FIXED	FIXED	Fixed (Government Services)			
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
11600 - 11650	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.146	5.146				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
11650 - 12050	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.147	5.147				
12050 - 12100	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.146	5.146				
12100 - 12230	FIXED	FIXED EU2	Fixed			

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
12230 - 13200	MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145	Maritime Mobile	National legislation: S.I. 414 of 2006		Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.  DSC Calling on 12577.5 kHz, 12578 kHz, 12578.5 kHz, 12657 kHz, 12657.5 kHz, 12658 kHz.  DSC distress traffic on 12577 kHz.  Maritime Safety Information on 12579 kHz.  Telex Distress Traffic on 12520 kHz.  Telephony distress traffic and calling by rescue centres on 12290 kHz.
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
13200 - 13260	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services), Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 26 Allotment Plan.  Annex 10 of the Convention on International Civil Aviation.
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
13260 - 13360	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan.  Annex 10 of the Convention on International Civil Aviation.
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
13360 - 13410	FIXED	FIXED	Fixed			
	RADIO ASTRONOMY	RADIO ASTRONOMY				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
5.149		5.149 EU2				
13410 - 13570	FIXED	FIXED				
	Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
5.150		5.150 EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
13570 - 13600	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.151	5.151				
13600 - 13800	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
13800 - 13870	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.151	5.151				



# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
13870 - 14000	FIXED	FIXED				
	Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
14000 - 14250	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-Satellite			
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
14250 - 14350	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
14350 - 14990	FIXED	FIXED	Fixed			
	Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
14990 - 15005	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	Standard Frequency and Time Signal (Reception)			
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.111	5.111				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
15005 - 15010	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard Frequency and Time Signal (Reception)			
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	Space Research	Space Research				
15010 - 15100	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile (Government Services)			ITU Radio Regulations Appendix 26 Allotment Plan
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
15100 - 15600	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
15600 - 15800	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.146	5.146				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
15800 - 16360	FIXED	FIXED EU2				
16360 - 17410	MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.145	Maritime Mobile	National legislation: S.I. 414 of 2006		Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.  DSC Calling on 16805 kHz, 16805.5 kHz, 16806 kHz, 16903 kHz, 16903.5 kHz, 16904 kHz.  DSC distress traffic on 16804.5 kHz.  Maritime Safety Information on 16806.5 kHz.  Telex Distress Traffic on 16695 kHz.  Telephony distress traffic and calling by rescue centres on 16420 kHz.
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU2				
17410 - 17480	FIXED	FIXED EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
17480 - 17550	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.146	5.146				
17550 - 17900	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
17900 - 17970	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan, including HF data links.  Annex 10 of the Convention on International Civil Aviation
17970 - 18030	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical Mobile			ITU Radio Regulations Appendix 26 Allotment Plan.
18030 - 18052	FIXED	FIXED				
		EU2				
18052 - 18068	FIXED	FIXED				
	Space Research	Space Research				
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
18068 - 18168	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR - SATELLITE	Amateur-Satellite			
18168 - 18780	FIXED	FIXED				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile	DSC calling	National Legislation: S.I. 414 of 2006		18898.5 kHz, 18899 kHz and 18899.5 kHz
18780 - 18900	MARITIME MOBILE	MARITIME MOBILE	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan.
		EU2				
18900 - 19020	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
	5.146	5.146				
19020 - 19680	FIXED	FIXED				
		EU2				
19680 - 19800	MARITIME MOBILE 5.132	MARITIME MOBILE 5.132	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.  DSC Calling on 19703.5 kHz, 19704 kHz and 19704.5 kHz.  Maritime Safety Information on 19680.5 kHz
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
19800 - 19990	FIXED	FIXED EU2				
19990 - 19995	STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111	STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111	Standard Frequency and Time Signal (Reception) Search and Rescue applications (Reception)			19993 kHz ( $\pm 3$ kHz) concerning manned space vehicles.
19995 - 20010	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111	Standard Frequency and Time Signal (Reception)			
20010 - 21000	FIXED Mobile	FIXED Mobile EU2				
21000 - 21450	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE	Amateur Amateur-Satellite	National Legislation: S.I. 192 of 2009		
21450 - 21850	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
21850 - 21870	FIXED	FIXED EU2				
21870 - 21924	FIXED 5.155B	FIXED 5.155B EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
21924 - 22000	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical Mobile, Fixed HF Stations	National Legislation: S.I. 855 of 2004		ITU Radio Regulations Appendix 27 Allotment Plan, including HF data links.  Annex 10 of the Convention on International Civil Aviation
22000 - 22855	MARITIME MOBILE 5.132	MARITIME MOBILE 5.132	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.  DSC Calling on 22374.5 kHz, 22375 kHz, 22375.5 kHz, 22444 kHz, 22444.5 kHz, 22445 kHz.  Maritime Safety Information on 22376 kHz.
		EU2				
22855 - 23000	FIXED	FIXED				
		EU2				
23000 - 23200	FIXED	FIXED				
	Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)				
		EU2				
23200 - 23350	FIXED 5.156A	FIXED 5.156A				
	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
23350 - 24000	FIXED	FIXED				
	MOBILE except aeronautical mobile 5.157	MOBILE except aeronautical mobile 5.157 EU2				
24000 - 24890	FIXED	FIXED				
	LAND MOBILE	LAND MOBILE EU2				
24890 - 24990	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-Satellite			
24990 - 25005	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)	Standard Frequency and Time Signal (Reception)			
25005 - 25010	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard Frequency and Time Signal (Reception)			
	Space Research	Space Research				
25010 - 25070	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile EU2				
25070 - 25210	MARITIME MOBILE	MARITIME MOBILE	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan.  DSC calling on 25208.5 kHz, 25209 kHz and 25209.5 kHz
		EU2				



# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
25210 - 25550	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile EU2				
25550 - 25670	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149	5.149				
25670 - 26100	BROADCASTING	BROADCASTING	Shortwave Broadcasting (Reception only)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007		ITU Radio Regulations Article 12 Planning Procedure
26100 - 26175	MARITIME MOBILE 5.132	MARITIME MOBILE 5.132	Maritime Mobile	National legislation: S.I. 414 of 2006		ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan  DSC Calling on 26121 kHz, 26121.5 kHz, 26122 kHz.  Maritime Safety Information on 26100.5 kHz
		EU2				

# 9 kHz to 27500 kHz

Frequency Band (kHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
26175 - 27500	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Paging (private, on-site)			See ComReg document 02/12R
			Citizen Band Radio (26.960 - 27.410 MHz.)	National Legislation: S.I. 436 of 1998	ERC/DEC(96)02 ERC/DEC(98)11 Recommendation T/R 20-09	
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/DEC(01)16 ERC/DEC(01)10 ERC/DEC(01)02 ERC/REC 70-03	See ComReg document 02/71R.
	5.150	5.150 EU2				

Spectrum from 27.5 MHz to 10000 MHz

04



# 27.5 MHz to 10000 MHz

## GENERAL INFORMATION

All radio and telecommunications terminal equipment must comply with the R&TTE Directive. Please see [http://www.comreg.ie/radio\\_spectrum/randtte.543.420.html](http://www.comreg.ie/radio_spectrum/randtte.543.420.html) for further details.

All apparatus for Wireless Telegraphy requires a licence unless it has been specifically exempted from licensing under Irish Legislation by means of an Exemption Order. Please see [http://www.comreg.ie/radio\\_spectrum/exemptions.541.488.rslicensing.html](http://www.comreg.ie/radio_spectrum/exemptions.541.488.rslicensing.html) for further details.

The following references apply to the spectrum from 27.5 MHz to 1 000 MHz:

1. Commission Decision 676/2002/EC of the European Parliament and of the Council of 7 March 2002 on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision).  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2002/l\\_108/l\\_10820020424en00010006.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2002/l_108/l_10820020424en00010006.pdf)
2. Commission Decision 2007/131/EC of 21 February 2007 on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2007/l\\_055/l\\_05520070223en00330036.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2007/l_055/l_05520070223en00330036.pdf)
3. Commission Decision 2009/343/EC of 21 April 2009 amending Decision 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.  
See: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:105:0009:0013:EN:PDF>
4. ECC Decision (06)04 of 24 March 2006 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz.  
See: <http://www.erodocdb.dk/docs/doc98/Official/Pdf/ECCDec0604.pdf>
5. ECC Decision (06)12 of 01 December 2006 on supplementary regulatory provisions to Decision ECC/DEC/(06)04 for UWB devices using mitigation techniques (amended, 31 October 2008).  
See: <http://www.erodocdb.dk/Docs/doc98/official/pdf/ECCDEC0612amended.PDF>
6. Directive 1999/5/ec of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/1999/l\\_091/l\\_09119990407en00100028.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/1999/l_091/l_09119990407en00100028.pdf)
7. Wireless Telegraphy Act, 1926 (Number 45 of 1926). See <http://www.irishstatutebook.ie/1926/en/act/pub/0045/index.html>

8. S.I. 193 of 2009, "Wireless Telegraphy (Aircraft Station Licence) Regulations 2009", applies to licences to keep, have possession of, install, maintain, work and use apparatus for wireless telegraphy forming part of an Aircraft Station, and having the characteristics set out therein.  
See: <http://www.comreg.ie/fileupload/publications/SI193of2009.pdf>
9. S.I. 369 of 2009, "Wireless Telegraphy (Radiodetermination, Air Traffic and Maritime Services) Regulations 2009", applies to Licences to keep, have possession of, install, maintain, work and use apparatus for wireless telegraphy for the purpose of the provision of Radiodetermination Services, Air Traffic Service Systems or Maritime Service Systems, and having the characteristics set out therein.  
See: <http://www.comreg.ie/fileupload/publications/SI369of2009.pdf>

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
27.5 - 28	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS				
	FIXED	FIXED				
	MOBILE	MOBILE	Paging (private, on-site)			See ComReg document 02/12R
			Wireless Public Address Systems between 27.6 – 27.99 MHz	National Legislation: S.I. 304 of 2006		See ComReg documents 06/26 and 06/26a
	EU2					
28 - 29.7	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-satellite			
29.7 - 30.005	MOBILE	MOBILE				
	FIXED					
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	EU2					
30.005 - 30.01	MOBILE	MOBILE	Mobile (Government services)			
	FIXED		Fixed			
	SPACE OPERATION (satellite identification)					
	SPACE RESEARCH					
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R
	EU2					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
30.01 - 37.5	FIXED		Fixed (Government Services)			
	MOBILE	MOBILE	Mobile (Government Services)		Recommendation T/R 25-08	
			Paging (Hospitals)			See ComReg document 02/12R
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006 S.I. 410 of 1997	ERC/DEC(01)11 ERC/REC 70-03	See ComReg document 02/71R
		EU2 EU27				
37.5 - 38.25	FIXED		Fixed			
	MOBILE	MOBILE	Mobile (Government services)		Recommendation T/R 25-08	
	Radio Astronomy	Radio Astronomy				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.149	5.149 EU2				
38.25 - 39.986	FIXED		Fixed (Government Services)			
	MOBILE	MOBILE			Recommendation T/R 25-08	
			Short Range Devices	National Legislation: S.I. 410 of 1997 S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R.
		EU2				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
39.986 - 40.02	FIXED		Fixed (Government Services)			
	MOBILE	MOBILE	Mobile (Government Services)			
	Space Research	Space Research				
			Short Range Devices	National Legislation: S.I. 410 of 1997 S.I. 405 of 2002 S.I. 160 of 2006		See ComReg document 02/71R.
		EU2				
40.02 - 40.98	FIXED		Fixed (Government Services)			
	MOBILE	MOBILE	Mobile (Government Services)		Recommendation T/R 25-08	
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006 S.I. 410 of 1997  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/DEC(01)03 ERC/DEC(01)12 ERC/REC 70-03	See ComReg document 02/71R
	5.150	5.150 EU2				
40.98 - 41.015	FIXED		Fixed			
	MOBILE	MOBILE	Mobile (Government services)		Recommendation T/R 25-08	
	Space Research	Space Research				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU2				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
41.015 - 44	FIXED		Fixed			
	MOBILE	MOBILE	Mobile (Government services)		Recommendation T/R 25-08	
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU27				
44 - 47	FIXED		Fixed (Government Services)			
	MOBILE	MOBILE	Mobile (Government Services)		Recommendation T/R 25-08	
			Radiolocation (secondary) (46-68 MHz)			Wind profiler radar – ITU Resolution 217
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.162A	5.162A EU27				
47 - 68	BROADCASTING					ST61 Plan: Television broadcasting ceased.
		LAND MOBILE			Recommendation T/R 25-08	
		Amateur (from 50 MHz to 52 MHz)	Amateurs (secondary)	National Legislation: S.I. 192 of 2009		
			Radiolocation (secondary) (46 - 68 MHz)			Wind profiler radar – ITU Resolution 217.
			Short Range Devices (49.82 - 49.98 MHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006		See ComReg document 02/71R
	5.162A 5.164	5.162A EU2 5.163 EU3 5.164				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
68 - 74.8	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	VHF Low band: Land Mobile PMR, Community Repeaters and Third Party Business Radio	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.  S.I. 435 of 2002 S.I. 83 of 1988 S.I. 646 of 2005	ECC/DEC(06)06 Recommendation T/R 25-08	ComReg Documents: 02/02R, 02/03R, 00/07R2.
		Radio Astronomy				
	5.149	5.149 EU2 EU4 EU9 EU27	Amateur (secondary) (70.125-70.450 MHz)	National Legislation: S.I. 192 of 2009		
74.8 - 75.2	AERONAUTICAL RADIONAVIGATION 5.180	AERONAUTICAL RADIONAVIGATION 5.180	Aeronautical Radionavigation			ILS/Marker Beacons Annex 10 to the Convention on International Civil Aviation.
75.2 - 87.5	FIXED					
	MOBILE except aeronautical mobile	MOBILE	VHF Low Band: Land Mobile PMR, Community Repeaters and Third Party Business Radio	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations, 1949, as amended.  S.I. 435 of 2002 S.I. 83 of 1988	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg Documents: 02/02R, 02/03R, 00/07R2 and 08/08.
		EU2 EU27 (77.8 – 84.6 MHz)				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
87.5 - 100	BROADCASTING	BROADCASTING	Broadcasting (FM Sound)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007	ERC/REC 54-01	GE84 Agreement
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
100 - 108	BROADCASTING	BROADCASTING	Broadcasting (FM Sound)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007	ERC/REC 54-01	GE84 Agreement
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
108 - 117.975	AERONAUTICAL RADIONAVIGATION 5.197A	AERONAUTICAL RADIONAVIGATION 5.197A	Aeronautical Radionavigation: Instrument Landing Systems (ILS), Localisers (108 - 112 MHz) and VHF Omnidirectional Omnidirectional (VOR) navigation			Annex 10 to the Convention on International Civil Aviation.

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
117.975 - 137	AERONAUTICAL MOBILE (R) 5.111 5.200	AERONAUTICAL MOBILE (R) 5.111 5.200 5.201 5.202	Aeronautical Radionavigation: air-ground-air communications (ATC) (118-137 MHz)			Annex 10 to the Convention on International Civil Aviation.
			Aeronautical Emergency Frequency 121.5 MHz Auxiliary Frequency to 121.5 MHz - 123.1 MHz ----- VHF omni-directional omnirange (VOR) navigation (112 - 118 MHz)			
			Maritime Mobile: EPIRBs (121.5 MHz or 121.5 MHz and 243 MHz)	National Legislation: S.I. 414 of 2006		ITU Radio Regulations Article 32, Appendices 13 and 15 and ITU-R M.690-1
137 - 137.025	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)				
	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	Satellite Personal Communication Service		ERC/DEC(99)06	
	SPACE RESEARCH (S/E)	Space research (S/E)				
	SPACE OPERATION (S/E)	Space operation (S/E)				
	Fixed					
	Mobile except aeronautical mobile (R) 5.208	MOBILE 5.206 5.208				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
137.025 - 137.175	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)				
	SPACE OPERATION (S/E)	Space operation (S/E)				
	SPACE RESEARCH (S/E)	Space research (S/E)				
	Mobile-Satellite (S/E) 5.208A 5.208B 5.209	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	Satellite Personal Communication Service		ERC/DEC(99)06	
	Fixed					
	Mobile except aeronautical mobile (R)	MOBILE				
	5.208	5.206 5.208				
137.175 - 137.825	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	Meteorological – Satellite (S/E) (LEO Reception)			
	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	Satellite Personal Communication Service		ERC/DEC(99)06	
	SPACE OPERATION (S/E)	Space operation (S/E)				
	SPACE RESEARCH (S/E)	Space research (S/E)				
	Fixed					
	Mobile except aeronautical mobile (R)	MOBILE				
	5.208	5.206 5.208				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
137.825 - 138	SPACE OPERATION (S/E)	Space operation (S/E)				
	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	Meteorological-Satellite (LEO Reception)		ERC/DEC(99)06	
	SPACE RESEARCH (S/E)	Space research (S/E)				
	Mobile-Satellite (S/E) 5.208A 5.208B 5.209	Mobile-Satellite (S/E) 5.208A 5.208B 5.209				
	Fixed					
	Mobile except aeronautical Mobile (R)	MOBILE				
	5.208	5.206 5.208				
138 - 143.6	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
		LAND MOBILE	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.		See ComReg documents 00/07R2, 02/02R and 02/12R
		Space Research (S/E)				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.211	5.211 EU2 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
143.6 - 143.65	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
	SPACE RESEARCH (S/E)	SPACE RESEARCH (S/E)				
		LAND MOBILE	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended		See ComReg documents 00/07R2, 02/02R and 02/12R
	5.211	5.211 EU2 EU27				
143.65 - 144	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
		LAND MOBILE	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.		See ComReg documents 00/07R2, 02/02R and 02/12R
	5.211	5.21 EU2 EU27				
144 - 146	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		See ComReg document 02/04R3
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-Satellite			
146 - 148	FIXED					
	MOBILE except aeronautical mobile (R)	MOBILE	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
148 - 149.9	FIXED					
	MOBILE except aeronautical mobile (R)	MOBILE	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	MOBILE-SATELLITE (E/S) 5.209	MOBILE-SATELLITE (E/S) 5.209	Satellite Personal Communication Service		ERC/DEC(99)06	
	5.218 5.219 5.221	5.218 5.219 5.221				
149.9 - 150.05	RADIONAVIGATION-SATELLITE 5.224B	RADIONAVIGATION-SATELLITE 5.224B				
	MOBILE-SATELLITE (E/S) 5.209 5.224A	MOBILE-SATELLITE (E/S) 5.209 5.224A	Satellite Personal Communication Service		ERC/DEC(99)06	
		MOBILE	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06	
	5.220 5.222 5.223	5.220 5.222 5.223				
150.05 - 153	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
153 - 154	FIXED					
	MOBILE except aeronautical mobile (R)		VHF Mid band: Land Mobile PMR, Paging and alarm systems (national, wide area, local and on-site)	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	Meteorological Aids					
154 – 156.4875	FIXED					
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	5.226	5.226				
156.4875 – 156.5625	MARITIME MOBILE (distress and calling via DSC)	MARITIME MOBILE (distress and calling via DSC)				
		MOBILE except aeronautical mobile (R)	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	5.111 5.226 5.227	5.111 5.226 5.227				
156.5625 – 156.7625	FIXED					
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	VHF Mid band: Land Mobile PMR, Paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	5.226	5.226				ITU Radio Regulations Appendix 18

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes	
156.7625 - 156.8375	MARITIME MOBILE (distress and calling) 5.226	MARITIME MOBILE (distress and calling) 5.226	Distress and Calling			156.8 MHz	
			Maritime Mobile Coast Stations (156 – 163 MHz)			ITU Radio Regulations Appendix 18	
			Land Mobile (VHF High Band)	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R	
	5.111	5.111					
156.8375 - 174	FIXED		Fixed				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Land Mobile (VHF High band between 163 - 174 MHz)	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.  European Legislation: Decision 2005/928/EC Decision 2008/673/EC	ECC/DEC(06)06 Recommendation T/R 25-08	See ComReg Documents 02/02R, 00/07R2 and 08/08.	
			Maritime Mobile Coast Stations (156 – 163 MHz)			ITU Radio Regulations Appendix 18	
			Maritime Radionavigation (162.4375 -162.4625 MHz and 163.0125 - 163.03125 MHz)				
			AIS (161.975 & 162.025 MHz reserved)			ERC/DEC(99)17	
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/928/EC	ECC/DEC(05)02 ERC/REC 70-03	See ComReg document 02/71R	
	5.226 5.227A	5.226 5.227A					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
174 - 223	BROADCASTING	BROADCASTING	Broadcasting: Television	National Legislation: Broadcasting Act 1990 Broadcasting Act 2009		GE06 Agreements.  The Wiesbaden, 1995, Special Arrangement as revised in Constanta 2007 (WI95revCO07)
			Broadcasting: T-DAB			
		LAND MOBILE				See ComReg Document 08/08
			Short Range Devices (173.7 - 175.1 MHz)	S.I 405 of 2002 S.I 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		5.235				
223 - 230	BROADCASTING	BROADCASTING	Television Broadcasting	National Legislation: Broadcasting Act 1990 Broadcasting Act 2009		GE06 Agreements.
			T-DAB			
	Fixed					
	Mobile	Land mobile				See ComReg Document 08/08
			Aeronautical UHF communications (225 - 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
		EU10				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
230 - 235	FIXED					
	MOBILE	MOBILE				
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
		EU10 EU27				
235 - 267	FIXED		Fixed (Government Services)			
	MOBILE	MOBILE	Mobile (Government Services)			
		AERONAUTICAL MOBILE	Aeronautical UHF communications (225 – 400 MHz)			243 MHz Emergency SAR, SAR Training Frequencies, ATC, Air to Air 242.9–243.1 SRSAT uplink
		MOBILE SATELLITE (E/S)				Annex 10 to the Convention on International Civil Aviation.
			Maritime Mobile: EPIRBs (121.5 MHz and 243 MHz) and Naval Intership Communications	National Legislation: S.I. 414 of 2006		ITU Radio Regulations Article 32, Appendix 13 and 15 and ITU-R M.690-1
	5.111 5.254 5.256	5.111 EU10 5.254 EU27 5.256				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
267 - 272	FIXED		Fixed			
	MOBILE	MOBILE				
	Space Operation (S/E)					
	5.254 5.257	5.254 EU10 5.257 EU27	Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
272 - 273	SPACE OPERATION (S/E)					
	FIXED					
	MOBILE	MOBILE				
	5.254	5.254 EU10 EU27	Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
273 - 312	FIXED					
	MOBILE	MOBILE	Mobile: Emergency Search & Rescue (Government Services) Position Fixing			
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	5.254 EU10 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
312 - 315	FIXED					
	MOBILE	MOBILE				
	Mobile-Satellite (E/S)		Satellite Personal Communication System		ERC/DEC(99)06	
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254 5.255	5.254 EU10 5.255 EU27				
315 - 322	FIXED					
	MOBILE	MOBILE				
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	5.254 EU10 EU27				
322 - 328.6	FIXED					
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.149	5.149 EU10 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
328.6 - 335.4	AERONAUTICAL RADIONAVIGATION 5.258	AERONAUTICAL RADIONAVIGATION 5.258	Aeronautical Radionavigation: UHF communications (225 – 400 MHz) and ILS Glide path (328.6 – 335.4 MHz)			Annex 10 to the Convention on International Civil Aviation.
		EU2				
335.4 - 387	FIXED					
	MOBILE	MOBILE	Mobile: Trunked Radio TETRA (Emergency) (380–385 MHz/390-395 MHz)  TETRA(Civil) (385-389.9 MHz /395-399.9 MHz)	National Legislation: S.I. 324 of 2008  National Legislation: S.I. 435 of 2002	ECC/DEC(08)05 ECC/DEC(06)05 ERC/DEC(01)19  Recommendations T/R 25-08 T/R 02-02	See ComReg document 08/67.
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	5.254 EU2 EU10 EU27				
387 - 390	FIXED					
	MOBILE	MOBILE	Mobile: Trunked Radio TETRA (Civil) (385-389.9 MHz/395-399.9 MHz)	National Legislation: S.I. 435 of 2002	ERC/DEC(01)19  Recommendations T/R 25-08 T/R 02-02	Secondary Basis Only.  See ComReg document 08/67.
	Mobile-Satellite (S/E) 5.208A 5.208B		Satellite Personal Communication System		ERC/DEC(99)06	
			Aeronautical UHF communications (225 - 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254 5.255	5.254 EU2 5.255 EU10 EU27				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
390 - 399.9	FIXED					
	MOBILE	MOBILE	Mobile: Trunked Radio TETRA(Emergency) (380-385 MHz/390-395 MHz)  TETRA(Civil) (385 -390 MHz/395–399.9 MHz)	National Legislation: S.I. 324 of 2008  National Legislation: S.I. 435 of 2002	ECC/DEC(08)05 ECC/DEC(06)05 ERC/DEC(01)19  Recommendations  T/R 02-02 T/R 25-08	See ComReg document 08/67.
			Aeronautical UHF communications (225 - 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	5.254 EU2 EU10 EU27				
399.9 - 400.05	RADIONAVIGATION–SATELLITE 5.222 5.224B 5.260	RADIONAVIGATION–SATELLITE 5.222 5.224B 5.260	Radionavigation satellite			
	MOBILE-SATELLITE (E/S) 5.209 5.224A	MOBILE-SATELLITE (E/S) 5.209 5.224A	Satellite Personal Communication System		ERC/DEC(99)06	
			Aeronautical UHF communications (225 – 400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.220	5.220				
400.05 - 400.15	STANDARD FREQUENCY AND TIME SIGNAL–SATELLITE (400.1 MHz)	STANDARD FREQUENCY AND TIME SIGNAL–SATELLITE (400.1 MHz)	Standard Frequency and Time Signal (Reception)			
	5.261	5.261 5.262				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
400.15 - 401.00	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological Aids (Radiosondes)			
	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)				
	SPACE RESEARCH (S/E)	SPACE RESEARCH (S/E)				
	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	MOBILE-SATELLITE (S/E) 5.208A 5.208B 5.209	Satellite Personal Communication System		ERC/DEC(99)06	
	Space Operation (S/E) 5.263	SPACE OPERATION (S/E)				
	5.264	5.262 5.264				
401 - 402	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological Aids (Radiosondes)			
	SPACE OPERATION (S/E)					
	EARTH EXPLORATION-SATELLITE (E/S)	EARTH EXPLORATION-SATELLITE (E/S)				
	METEOROLOGICAL SATELLITE (E/S)	METEOROLOGICAL SATELLITE (E/S)				
	Fixed					
	Mobile except aeronautical mobile					
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	EU2					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes	
402 - 403	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological Aids (Radiosondes)				
	EARTH EXPLORATION-SATELLITE (E/S)	EARTH EXPLORATION-SATELLITE (E/S)					
	METEOROLOGICAL-SATELLITE (E/S)	METEOROLOGICAL-SATELLITE (E/S)					
	Fixed						
	Mobile except aeronautical mobile						
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/DEC(01)17	See ComReg document 02/71R	
		EU2					
403 - 406	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological Aids (Radiosondes)				
	Fixed						
	Mobile except aeronautical mobile						
				Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/DEC(01)17 ERC/REC 70-03	See ComReg document 02/71R
			EU 2				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
406 - 406.1	MOBILE–SATELLITE (E/S)	MOBILE–SATELLITE (E/S)	EPIRBs (Emergency beacons)	European Legislation: Decision 2005/631/EC		COSPAS/SARSAT – This band is only available for distress and safety purposes.
			Personal Locator Beacons (PLB's)	S.I. 290 of 2010		
406.1 - 410	5.266 5.267	5.266 5.267				
	FIXED					
	MOBILE except aeronautical mobile	LAND MOBILE				
410 - 420	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149	5.149				
410 - 420	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Land Mobile: Digital and Analogue Trunked Radio	National Legislation: S.I. 435 of 2002	ECC/DEC(06)06 ECC/DEC(04)06 Recommendation T/R 25-08	
			Wideband Digital Mobile Data Service from 410 - 414 MHz / 420 – 424 MHz	National Legislation: S.I. 642 of 2005		See ComReg documents 05/79, 05/80, 05/31 and 04/107
410 - 420	SPACE RESEARCH (S/S)					
	5.268					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
420 - 430	FIXED		Fixed			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Land Mobile: Digital and Analogue Trunked Radio	National Legislation: S.I. 435 of 2002	ECC/DEC(06)06 ECC/DEC(04)06 Recommendation T/R 25-08	
	Radiolocation	Radiolocation	Wideband Digital Mobile Data Service from 410 - 414 MHz/ 420 - 424 MHz	National Legislation: S.I. 642 of 2005		See ComReg documents 05/79, 05/80, 05/31 and 04/107
430 - 432	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	RADIOLOCATION	RADIOLOCATION 5.277 EU2 EU12	Radiolocation			
432 - 438	AMATEUR	AMATEUR	Amateur	S.I. 192 of 2009		
		AMATEUR-SATELLITE				
	RADIOLOCATION	RADIOLOCATION	Radiolocation			
	Earth exploration-satellite (active)	Earth exploration-satellite (active) 5.279A				
		Land mobile				
			Short Range Devices	National Legislation: S.I. 405 of 2005 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
	5.138 5.279A 5.282	5.138 EU2 5.277 EU12 5.280				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
438 - 440	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	RADIOLOCATION	RADIOLOCATION	Radiolocation			
		5.277 EU2 EU12				
440 - 450	FIXED		Fixed Links	National Legislation: S.I. 370 of 2009		Band Closed  Fixed point to point links to be phased out.
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Land Mobile	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended	ECC/DEC(06)06 T/R 25-08	See documents 00/07R2, 02/02R and 08/08
			Mobile: PMR 446 (between 446-446.1 MHz)	National Legislation: S.I. 93 of 1998	ERC/DEC(98)25	
			Digital PMR446 (between 446.1-446.2 MHz)	National Legislation: S.I. 160 of 2006	ECC/DEC(05)12	
	Radiolocation	Radiolocation				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
5.286	EU31					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
450 - 455	FIXED					
	MOBILE 5.286AA	MOBILE	Land Mobile (PMR UHF band) and Community Repeaters	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.  S.I. 435 of 2002 S.I. 83 of 1988	ECC/DEC(06)06 ECC/DEC(04)06 Recommendation T/R 25-08	See documents 00/07R2, 02/02R and 02/03R
	5.209 5.286 5.286A 5.286B 5.286C	EU31				
455 - 456	FIXED					
	MOBILE 5.286AA	MOBILE	Land mobile: PMR UHF Band, Digital Land Mobile Civil	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.  S.I. 435 of 2002 S.I. 83 of 1988	ECC/DEC(06)06 ECC/DEC(04)06 Recommendation T/R 25-08	See ComReg documents 00/07R2, 02/02R and 02/12R
	5.209 5.286A 5.286B 5.286C	EU31				
456 - 459	FIXED		Fixed Links	National Legislation: S.I. 370 of 2009		Fixed point-to-multipoint links only.  See ComReg document 02/11R2

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	MOBILE 5.286AA	MOBILE	Land mobile (Government Services, Commercial, Local Authorities)	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended.  S.I. 435 of 2002 S.I. 83 of 1988	ECC/DEC(06)06 ECC/DEC(04)06 T/R 25-08	See documents 00/07R2, 02/02R and 08/08
			On-board ship communications	National Legislation: S.I. 414 of 2006	Recommendation T/R 32-02	457.525 – 457.575 MHz.
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2001/148/EC	ERC/REC 70-03	See ComReg document 02/71R  ECG monitoring only between 458.6375 – 458.8375 MHz.  Avalanche beacons 457 MHz
	5.287	5.287 EU31				
459 - 460	FIXED		Fixed Links	National Legislation: S.I. 370 of 2009		Fixed point-to-multipoint links only.  See ComReg document 02/11R2
	MOBILE 5.286AA	MOBILE	Land mobile: PMR UHF Band, On side paging and Telemetry	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949–1992.  S.I. 435 of 2002 S.I. 83 of 1988	ECC/DEC(06)06 ECC/DEC(04)06 Recommendation T/R 25-08	See documents 00/07R2, 02/02R and 02/12R  Note: ECG monitoring only in adjacent band 458.6375 – 458.8375 MHz.
	5.209 5.286A 5.286B 5.286C	EU31				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
460 - 470	FIXED		Fixed (450 – 470 MHz)	National Legislation: S.I. 370 of 2009		Fixed point-to-multipoint links only.  See ComReg document 02/11R2
	MOBILE 5.286AA	MOBILE	Land mobile PMR (Government Services, Commercial, Local Authorities) and Community Repeaters  Wide-area paging between 469.85 – 470 MHz	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949–1992.  S.I. 435 of 2002 S.I. 83 of 1988	ECC/DEC(06)06 ECC/DEC(04)06 Recommendation T/R 25-08	See documents 00/07R2, 02/02R, 02/03R, 02/12R and 08/08
			On-board ship communications	National Legislation: S.I. 414 of 2006		
			Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008  European Legislation: Decision 2008/294/EC Decision 2008/295/EC	ECC/DEC/(06)07	
	Meteorological-Satellite (S/E)					
	5.287 5.2	5.287 EU31 5.289				
470 - 790	BROADCASTING	BROADCASTING	Broadcasting (Television)	National Legislation: Broadcasting Act 1990 Broadcasting Act 2009 S.I. 445 of 2009		GE06 Agreements.  Mobile (services ancillary to broadcasting only as per RR 5.296)
		Mobile				See ComReg Document 08/08
		Radio astronomy				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	5.149 5.296 5.302 5.306 5.311A	5.149 5.291A 5.296 5.306 5.311A 5.312 EU13				
790 - 862	FIXED					
	BROADCASTING	BROADCASTING	Broadcasting (Television)	National Legislation: Broadcasting Act 1990 Broadcasting Act 2009 S.I. 445 of 2009		GE06 Agreements.
			Broadcasting (OB Links)			
	MOBILE except aeronautical mobile 5.316B 5.317A	MOBILE except aeronautical mobile 5.316B 5.317A				See ComReg Document 08/08
	5.312 EU2 5.316 EU13					
862 - 890	FIXED					
	MOBILE except aeronautical mobile 5.317A	MOBILE	GSM 900 (880 - 915 MHz / 925 - 960 MHz)  GSM-R (876-880 MHz / 921-925 MHz)	National Legislation: (GSM) S.I. 416 of 1994 S.I. 123 of 1996 S.I. 409 of 1997 S.I. 158 of 2003 S.I. 339 of 2003  European Legislation: Directive 87/372/EEC Directive 2009/114/EC Decision 2009/766/EC	Digital land mobile: ECC/DEC(04)06 Recommendation T/R 25-08  GSM-900 and GSM-R: ECC/REC/(08)02 ECC/DEC/(02)09 ERC/DEC(97)02 ECC/DEC(02)05 ERC/DEC(94)01 ECC/REC/(05)08 Recommendations T/R 25-09	
					ECC/DEC(06)13	

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	BROADCASTING 5.322		Wideband Digital Data Service from 872 – 876 MHz / 917 – 921 MHz	National Legislation: S.I. 642 of 2005		See ComReg documents 05/79, 05/80, 05/31 and 04/107
				European Legislation: Decision 2010/166/EU	ECC/DEC/(08)08	
						See ComReg Document 08/08
			Short Range Devices (863 – 870 MHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU Decision 2006/804/EC	ERC/REC 70-03	See ComReg document 02/71R
		5.317A EU2 5.323 EU13 EU29				
890 - 942	FIXED  MOBILE except aeronautical mobile 5.317A	MOBILE	GSM 900 (880 - 915 MHz / 925 –960 MHz)	National Legislation (GSM) S.I. 416 of 1994 S.I. 123 of 1996 S.I. 409 of 1997 S.I. 158 of 2003 S.I. 339 of 2003  European Legislation: Directive 87/372/EEC Directive 2009/114/EC Decision 2009/766/EC	Digital land mobile: ECC/DEC(04)06 Recommendation T/R 25-08  For GSM-900 and GSM-R : ECC/REC/(08)02 ECC/DEC/(02)09 ERC/DEC(94)01 ERC/DEC(97)02 ECC/DEC(02)05 ECC/REC/(05)08  Recommendations T/R 25-09	

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			Wideband Digital Data Service from 872 – 876 MHz / 917 – 921 MHz	National Legislation S.I. 642 of 2005	ECC/DEC(06)13	See ComReg documents 05/79, 05/80, 05/31 and 04/107
			Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008  European Legislation: Decision 2008/294/EC Decision 2008/295/EC	ECC/DEC/(06)07	
				European Legislation: Decision 2010/166/EU	ECC/DEC/(08)08	
	BROADCASTING 5.322		Broadcasting (Links)			Existing links to be relocated
	Radiolocation	Radiolocation				
		5.317A EU2 5.323 EU13 EU14 EU29				
942 - 960	FIXED  MOBILE except aeronautical mobile 5.317A	MOBILE	GSM 900 (880 – 915 MHz / 925 –960 MHz)	National Legislation (GSM): S.I. 416 of 1994 S.I. 123 of 1996 S.I. 409 of 1997 S.I. 158 of 2003 S.I. 339 of 2003  European Legislation: Directive 87/372/EEC Directive 2009/114/EC Decision 2009/766/EC	ECC/REC/(08)02 ERC/DEC(94)01 ERC/REC/(05)08 ERC/DEC(97)02	
					ECC/DEC(06)13	

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008  European Legislation: Decision 2008/294/EC Decision 2008/295/EC	ECC/DEC/(06)07	
	BROADCASTING 5.322		Broadcasting (Links)	European Legislation: Decision 2010/166/EU	ECC/DEC/(08)08	Existing links to be relocated
		5.317A EU13 5.323 EU29				
960 - 1164	AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION 5.328	Aeronautical Radionavigation: Distance Measuring Equipment and Secondary Surveillance Radar (960 - 1215 MHz)			Annex 10 to the Convention on International Civil Aviation.
	AERONAUTICAL MOBILE (R) 5.327A	AERONAUTICAL MOBILE (R) 5.327A				
1164 - 1215	AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION 5.328	Aeronautical Radionavigation Distance Measuring Equipment and Secondary Surveillance Radar (960 - 1215 MHz)			Annex 10 to the Convention on International Civil Aviation.
	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328A 5.328B	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.328A 5.328B				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1215 - 1240	EARTH EXPLORATION-SATELLITE (Active)	EARTH EXPLORATION-SATELLITE (Active)				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A 5.328B	RADIONAVIGATION-SATELLITE (S/E) (S/S) 5.329 5.329A 5.328B	Radionavigation: Radar, Navigation Systems and Active Sensors, GPS, Galileo and GLONASS			
	SPACE RESEARCH (Active)	SPACE RESEARCH (Active)				
	5.331 5.332	5.331 EU2 5.332	Amateur (Secondary)			
1240 - 1300	EARTH EXPLORATION-SATELLITE (Active)	EARTH EXPLORATION-SATELLITE (Active)				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION-SATELLITE (S/E)(S/S) 5.328B 5.329 5.329A	RADIONAVIGATION-SATELLITE (S/E)(S/S) 5.328B 5.329 5.329A	Radionavigation: Radar, Navigation Systems, Active Sensors, GLONASS and Galileo			
	SPACE RESEARCH (Active)	SPACE RESEARCH (Active)				
	Amateur	Amateur Amateur Satellite (1260 - 1270 MHz)	Amateur (Secondary)			
	5.282 5.331 5.332 5.335A	5.331 EU2 5.332 5.282 5.335A				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1300 - 1350	AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION 5.337				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION-SATELLITE (E/S)	RADIONAVIGATION-SATELLITE (E/S)	Radio Navigation Systems			
	5.149 5.337A	5.149 5.337A	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006		See ComReg document 02/71R
1350 - 1400	FIXED	FIXED	Fixed: Point-Point Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex A and Annex B	See ComReg documents 09/89 and 09/89A
	MOBILE	MOBILE				
	RADIOLOCATION	RADIOLOCATION				
	5.149 5.339 5.338A	5.149 EU2 5.338A EU15 5.339	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006		See ComReg document 02/71R
1400 - 1427	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341	5.340 5.341				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1427 - 1429	FIXED	FIXED	Fixed: Point-Point Radio Links (Infrastructure)	National Legislation: S.I. 310 of 2009	Recommendation T/R 13-01: Annex B	See ComReg documents 09/89 and 09/89A
	SPACE OPERATION (E/S)	SPACE OPERATION (E/S)				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.341 5.338A	5.341 EU2 5.338A EU15				
1429 - 1452	FIXED	FIXED	Fixed: Point-Point Radio Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex B	See ComReg documents 09/89 and 09/89A
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.341 5.338A	5.341 EU2 EU15				
1452 - 1492	FIXED	Fixed				Band closed to Fixed services.
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	BROADCASTING-SATELLITE 5.208B 5.345	BROADCASTING-SATELLITE 5.345				Resolution 528 (WARC-92)
	BROADCASTING 5.345	BROADCASTING 5.345	Broadcasting (S-DAB Allocation 1479.5-1492 MHz)	National Legislation: Broadcasting Authority Act 1960 as amended Radio and Television Act 1988 Broadcasting Act 1990 Broadcasting Act 2001 Broadcasting Act 2007	ECC/DEC(03)02	Digital Audio Broadcasting  The Maastricht, 2002, Special Arrangement as revised in Constanta 2007 (MA02revCO07)
	5.341	5.341 5.342				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1492 - 1518	FIXED	FIXED	Fixed Point-Point Radio Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex A	See ComReg document 98/14R6 and 98/15R5
	MOBILE except aeronautical mobile 5.341 5.342	MOBILE except aeronautical mobile 5.341 EU2 EU15				
1518 - 1525	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	MOBILE-SATELLITE (S/E) 5.348 5.348A 5.348B	MOBILE-SATELLITE (S/E) 5.348 5.348A 5.348B				
	5.341	5.341 EU2 EU15				
1525 - 1530	SPACE OPERATION (S/E)	SPACE OPERATION (S/E)				Inmarsat-D and Mini-M, EMS-MSSAT and EMS PRODAT terminals
	FIXED	FIXED				
	MOBILE-SATELLITE (S/E) 5.208B 5.351A	MOBILE-SATELLITE (S/E) 5.351A	Mobile-Satellite	National Legislation: S.I. 398 of 2001 S.I. 128 of 2005		
			Maritime Mobile Satellite (S/E)	S.I. 343 of 2008		
			Search And Rescue (SAR) satellite systems including GMDSS			
	Earth Exploration-Satellite Mobile except aeronautical mobile					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	5.341 5.351 5.352A 5.354	5.341 5.351 5.354				
1530 - 1535	SPACE OPERATION (S/E) MOBILE-SATELLITE (S/E) 5.351A 5.353A Earth Exploration-Satellite Fixed Mobile except aeronautical mobile 5.341 5.351 5.354	SPACE OPERATION (S/E) MOBILE-SATELLITE (S/E) 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.351 5.354	Maritime Mobile-Satellite (S/E)  Search And Rescue (SAR) satellite systems including GMDSS	National Legislation: S.I. 398 of 2001 S.I. 007 of 2004 (AMSS only) S.I. 128 of 2005 S.I. 343 of 2008		
1535 - 1559	MOBILE-SATELLITE (S/E) 5.351A  5.341 5.351 5.353A 5.354 5.356 5.357 5.357A 5.362A	MOBILE-SATELLITE (S/E) 5.351A  5.341 5.351 5.354 5.356 5.357 5.357A 5.359	Maritime Mobile-Satellite (S/E)  Search and Rescue (SAR) Satellite systems including GMDSS	National Legislation: S.I. 398 of 2001 S.I. 007 of 2004 S.I. 128 of 2005 S.I. 343 of 2008		1544-1545 MHz SRSAT Downlink

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1559 - 1610	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: GPS, GLONASS and Galileo.	National Legislation: S.I. 214 of 1998 S.I. 128 of 2005		
	RADIONAVIGATION-SATELLITE (S/E)(S/S) 5.328B 5.329A	RADIONAVIGATION-SATELLITE (S/E)(S/S) 5.328B 5.329A				
	5.341	5.341 5.362B				
1610 - 1610.60	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: GPS, GLONASS			
	MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Satellite Personal Communications Service	National Legislation: S.I. 214 of 1998	ERC/DEC(97)03 ERC/DEC(97)05	
	5.341 5.364 5.366 5.367 5.368 5.371 5.372	5.341 5.359 5.364 5.366 5.367 5.368 5.371 5.372				
1610.60 - 1613.80	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: GPS, GLONASS			
	MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Satellite Personal Communications Service	National Legislation: S.I. 214 of 1998	ERC/DEC(97)03 ERC/DEC(97)05	
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.341 5.364 5.366 5.367 5.368 5.371 5.372	5.149 5.341 5.359 5.364 5.366 5.367 5.368 5.371 5.372				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1613.80 - 1626.50	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical Radionavigation: GPS, GLONASS			
	MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Satellite Personal Communications Service	National Legislation: S.I. 214 of 1998	ERC/DEC(97)03 ERC/DEC(97)05	
	Mobile-Satellite (S/E) 5.208B	Mobile-Satellite (S/E) 5.208B				
	5.341 5.364 5.365 5.366 5.367 5.368 5.371 5.372	5.341 5.359 5.364 5.365 5.366 5.367 5.368 5.371 5.372				
1626.50 - 1660.00	MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Maritime Mobile Satellite (E/S)  Search and Rescue (SAR) Satellite Systems including GMDSS	National Legislation: S.I. 398 of 2001 S.I. 128 of 2005 S.I. 343 of 2008		
	5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376	5.341 5.351 5.353A 5.354 5.357A 5.359 5.374 5.375 5.376				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1660.00 - 1660.50	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			Important band for Radio Astronomy
	MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A	Maritime Mobile Satellite (E/S)	National Legislation: S.I. 398 of 2001 S.I. 128 of 2005 S.I. 343 of 2008		
	5.149 5.341 5.351 5.354 5.376A	5.149 EU15 5.341 5.351 5.354 5.376A				
1660.50 - 1668	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			Important band for Radio Astronomy
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	Fixed	Fixed				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
	5.149 5.341 5.379A	5.149 EU2 5.341 EU15 5.379A				
1668 – 1668.4	MOBILE-SATELLITE (E/S) 5.379B 5.379C	MOBILE-SATELLITE (E/S) 5.379B 5.379C				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			Important band for Radio Astronomy
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	Fixed	Fixed				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
	5.149 5.341 5.379A 5.379D	5.149 EU15 5.341 5.379A 5.379D				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1668.4 – 1670	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS				
	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	MOBILE-SATELLITE (E/S) 5.379B 5.379C	MOBILE-SATELLITE (E/S) 5.379B 5.379C				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			Important band for Radio Astronomy
5.149 5.341 5.379D	5.149 EU2 5.341 EU15 5.379D 5.379E					
1670 - 1675	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS				
	METEOROLOGICAL – SATELLITE (S/E)	METEOROLOGICAL – SATELLITE (S/E)				
	MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)				
	MOBILE	MOBILE				
	FIXED	Fixed				
	5.341 5.379B 5.379D 5.379E 5.380A	5.341 5.379B 5.379D 5.379E 5.380A				
1675 - 1690	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological–Satellites			
	FIXED	FIXED				
	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.341	5.341 EU2 EU15				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1690 - 1700	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological–Satellites			Weather satellite reception (HRPT) 1690 - 1710 MHz
	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)				
	Fixed	Fixed				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
	5.289 5.341	5.289 EU2 5.341 EU15 5.382				
1700 - 1710	FIXED	FIXED	Meteorological–Satellites			Weather satellite reception (HRPT) 1690 - 1710 MHz
	METEOROLOGICAL – SATELLITE (S/E)	METEOROLOGICAL – SATELLITE (S/E)				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.289 5.341	5.289 EU2 5.341 EU15				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
1710 - 1930	FIXED	FIXED (1710 - 1800 MHz, 1805 - 1880 MHz)				
		Fixed (1800-1805 MHz, 1880 - 1885 MHz, 1880 - 1900 MHz, 1900 - 1930 MHz )				
	MOBILE 5.384A 5.388A	MOBILE 5.384A 5.888A	GSM 1800 also known as DCS 1800 (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation: S.I. 107 of 1999 S.I. 339 of 2003 S.I. 158 of 2003 S.I. 340 of 2003	For GSM: ECC/REC/(08)02 ECC/REC/(05)08 ERC/DEC(95)03	
				European Legislation: Decision 2009/766/EC	ECC/DEC(06)13	
			Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008	ECC/DEC/(06)07	
			European Legislation: Decision 2008/294/EC Decision 2008/295/EC			
			UMTS terrestrial (3G mobile) (1900-1980 MHz / 2010 – 2025 MHz/ 2110 – 2170 MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003	ECC/REC/(08)02 ECC/DEC(06)01 ERC/REC/(01)01	
European Legislation: Decision 128/1999/EC						
Wireless Access Platform for Electronic Communications (1785- 1805 MHz)	National Legislation: S.I. 172 of 2007		See ComReg documents 05/93 and 05/93A			
	European Legislation: Decision 2010/166/EU	ECC/DEC/(08)08				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006 S.I. 168 of 1994 S.I. 410 of 1997  European Legislation: Decision 91/288/EEC	ERC/REC 70-03 ERC/DEC(94)03	See ComReg document 02/71R
	5.149 5.341 5.385 5.388	5.149 EU29 5.341 EU33 5.385 5.388				
1930 - 1970	MOBILE 5.388A	MOBILE 5.388A	IMT-2000/UMTS Terrestrial (1900-1980 MHz / 2010 - 2025 MHz / 2110-2170MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003  European Legislation: Decision 128/1999/EC	ECC/REC/(08)02 ECC/DEC(06)01 ERC/REC/(01)01	
	FIXED 5.388	Fixed 5.388 EU29				
1970 - 1980	MOBILE 5.388A	MOBILE 5.388A	IMT-2000/UMTS Terrestrial (1900 - 1980 MHz / 2010 - 2025 MHz / 2110 - 2170MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003  European Legislation: Decision 128/1999/EC	ECC/REC/(08)02 ECC/DEC(06)01 ERC/REC/(01)01	
	FIXED 5.388	Fixed 5.388 EU29				
1980 - 2010	FIXED MOBILE	Fixed MOBILE	IMT-2000/UMTS Satellite component	National Legislation: S.I. 214 of 1998 S.I. 158 of 2003  European Legislation: Decision 128/1999/EC		See ComReg document 08/08

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	MOBILE-SATELLITE (E/S) 5.351A	MOBILE-SATELLITE (E/S) 5.351A		European Legislation: Decision 2007/98/EC Decision 626/2008/EC Decision 2009/449/EC	ECC/DEC/(06)09	
	5.388 5.389A	5.388 5.389A				
2010 - 2025	FIXED	Fixed				
	MOBILE 5.388A	MOBILE 5.388A	IMT-2000/UMTS Terrestrial (1900 - 1980 MHz / 2010 - 2025 MHz / 2110 - 2170MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003  European Legislation: Decision 128/1999/EC	ECC/DEC(06)01 ERC/REC/(01)01	Under consideration for release in 2009/2010  See ComReg document 08/08
	5.388	5.388 EU29				
2025 - 2110	FIXED	FIXED	Fixed: Point – Point Radio Links (Infrastructure) (2025 - 2110 MHz and 2200 – 2290 MHz)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex C	See ComReg documents 09/89 and 09/89A
	MOBILE 5.391	MOBILE 5.391				See ComReg document 08/08
	SPACE RESEARCH (E/S) (S/S)	SPACE RESEARCH (E/S) (S/S)				
	SPACE OPERATION (E/S) (S/S)	SPACE OPERATION (E/S) (S/S)				
	EARTH EXPLORATION-SATELLITE (E/S)(S/S)	EARTH EXPLORATION-SATELLITE (E/S)(S/S)				
			SAP/SAB		Recommendation ERC/REC 25-10	
	5.392	5.392 EU2 EU15 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2110 - 2120	FIXED	Fixed				
	MOBILE 5.388A	MOBILE 5.388A	IMT-2000/UMTS Terrestrial (1900 - 1980 MHz / 2010 - 2025 MHz / 2110 - 2170MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003  European Legislation: Decision 128/1999/EC	ECC/DEC(06)01 ERC/REC/(01)01	
			Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008  European Legislation: Decision 2008/294/EC Decision 2008/295/EC	ECC/DEC/(06)07	
	SPACE RESEARCH (deep space) (E/S)	SPACE RESEARCH (deep space) (E/S)				
	5.388	5.388 EU29				
2120 - 2160	FIXED	Fixed				
	MOBILE 5.888A	MOBILE 5.888A	IMT-2000/UMTS Terrestrial (1900 - 1980 MHz / 2010 - 2025 MHz / 2110 - 2170MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003  European Legislation: Decision 128/1999/EC	ECC/DEC(06)01 ERC/REC/(01)01	
			Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008  European Legislation: Decision 2008/294/EC Decision 2008/295/EC	ECC/DEC/(06)07	
	5.388	5.388 EU29 5.392A				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2160 - 2170	FIXED	Fixed				
	MOBILE 5.888A	MOBILE 5.888A	IMT-2000/UMTS Terrestrial (1900 - 1980 MHz / 2010 - 2025 MHz / 2110 - 2170MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003  European Legislation: Decision 128/1999/EC	ECC/DEC(06)01 ERC/REC/(01)01	
	5.388	5.388 5.392A	Mobile Communication Services on Aircraft (MCA) (1710 - 1785 MHz / 1805 - 1880 MHz)	National Legislation : S.I. 178 of 2008  European Legislation: Decision 2008/294/EC Decision 2008/295/EC	ECC/DEC/(06)07	
2170 - 2200	FIXED	Fixed				
	MOBILE	MOBILE				See ComReg document 08/08
	MOBILE-SATELLITE (S/E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A	IMT-2000/UMTS Satellite Component	National Legislation: S.I. 214 of 1998 S.I. 158 of 2003  European Legislation: Decision 128/1999/EC Decision 2007/98/EC Decision 626/2008/EC Decision 2009/449/EC	ECC/DEC/(06)09 ERC/DEC/(97)03 ERC/DEC(97)05	
	5.388 5.389A	5.388 5.389A				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2200 - 2290	FIXED	FIXED	Fixed Links (Infrastructure) (2025 - 2110 MHz and 2200 – 2290 MHz)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex C	See ComReg document 98/14R6 and 98/15R5
	SPACE RESEARCH (S/E)(S/S)	SPACE RESEARCH (S/E)(S/S)				
	SPACE OPERATION (S/E)(S/S)	SPACE OPERATION (S/E)(S/S)				
	EARTH EXPLORATION-SATELLITE(S/E)(S/S)	EARTH EXPLORATION-SATELLITE(S/E)(S/S)				
	MOBILE 5.391	MOBILE 5.391				See ComReg document 08/08
	5.392	5.392 EU15 EU27		SAP/SAB	ERC/REC 25-10	
2290 - 2300	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex C	See ComReg document 98/14R6 and 98/15R5
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				See ComReg document 08/08
	SPACE RESEARCH (deep space) (S/E)	SPACE RESEARCH (deep space) (S/E) EU2				
2300 - 2450	FIXED	FIXED	Multi-Access Radio links (RURTEL) (2307 - 2326 MHz paired with 2407-2427 MHz) Dáil TV (2308 – 2316 MHz)			ITU-R F. 746 Annex 2 (2.3-2.5 GHz)
	MOBILE 5.384A	MOBILE 5.384A				The Band 2300 -2400 MHz is currently under consultation See ComReg document 09/76

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	Amateur	Amateur (2300 – 2400 MHz)	Amateur (secondary)	National Legislation: S.I. 192 of 2009		
		Amateur-Satellite (2400 - 2450 MHz)				
	Radiolocation	Radiolocation				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU  Recommendation 2003/203/EC	ERC/DEC(01)07 ERC/DEC(01)08 ERC/REC 70-03	See ComReg document 02/71R
			SAP/SAB (2300 – 2400 MHz)		ERC/REC 25-10	
	5.150 5.282	5.150 EU2 5.282				
2450 - 2483.5	FIXED	FIXED				
	MOBILE	MOBILE				
	Radiolocation					
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU  Recommendation 2003/203/EC	ERC/DEC(01)07 ERC/DEC(01)08 ERC/REC 70-03	See ComReg document 02/71R
	5.150	5.150				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2483.5 - 2500	FIXED	FIXED				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (S/E) 5.351A	MOBILE-SATELLITE (S/E) 5.351A	Satellite Personal Communications Service	National Legislation: S.I. 214 of 1998	ERC/DEC(97)03 ERC/DEC(97)05	
	Radiolocation		SAP/SAB		ERC/REC 25-10	
	5.150 5.371 5.398 5.399 5.402	5.150 5.371 5.398 5.402				
2500 -2520	FIXED 5.410	Fixed		European Legislation: Decision 2008/477/EC		Channel plan for the fixed service in Recommendation T/R 13-01 Annex D will not be implemented as the band is used by programme retransmission systems.
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC		
			Terrestrial electronic communication services, including MMDS programme services distribution (2500 - 2686 MHz)	National Legislation: S.I. 529 of 2003  European Legislation: Decision 2008/477/EC		See ComReg documents 04/41 and 04/42
	5.403					
2520 - 2655	FIXED 5.410	FIXED		European Legislation: Decision 2008/477/EC		Channel plan for the fixed service in Recommendation T/R 13-01 Annex D will not be implemented as the band is used by programme retransmission systems.

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC		
	BROADCASTING-SATELLITE 5.413 5.416					
			Terrestrial electronic communication services, including MMDS programme services distribution (2500 - 2686 MHz)	National Legislation: S.I. 529 of 2003 European Legislation: Decision 2008/477/EC		See ComReg documents 04/41 and 04/42
			Terrestrial electronic communication services, including SAP/SAB	European Legislation: Decision 2008/477/EC	ERC/REC 25-10	
	5.339 5.403 5.418B 5.418C 5.417C 5.417D	5.339 EU2 5.418B EU15 5.418C EU16				
2655 - 2670	FIXED 5.410	FIXED		European Legislation: Decision 2008/477/EC		Channel plan for the fixed service in T/R 13-01 Annex D will not be implemented as the band is used by programme retransmission systems.
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC		
	BROADCASTING-SATELLITE 2.208B 5.413 5.416					
	Earth exploration-satellite (passive)	Earth exploration-satellite (passive)				
	Radio Astronomy	Radio astronomy				
	Space Research (passive)	Space research (passive)				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			Terrestrial electronic communication services, including MMDS programme services distribution (2500 - 2686 MHz)	National Legislation: S.I. 529 of 2003 European Legislation: Decision 2008/477/EC		See ComReg documents 04/41 and 04/42
			Terrestrial electronic communication services, including SAP/SAB	European Legislation: Decision 2008/477/EC	ERC/REC 25-10	
	5.149 5.420	5.149 EU2 EU15 EU16				
2670 - 2690	FIXED 5.410	Fixed		European Legislation: Decision 2008/477/EC		Channel plan for the fixed service in T/R 13-01 Annex D will not be implemented as the band is used by programme retransmission systems.
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC		
	MOBILE-SATELLITE (E/S) 5.351A					
	Earth exploration-satellite (passive)					
	Radio Astronomy	Radio astronomy				
	Space Research (passive)					
			Terrestrial electronic communication services, including MMDS programme services distribution (2500 - 2686 MHz)	National Legislation: S.I. 529 of 2003 European Legislation: Decision 2008/477/EC		See ComReg documents 04/41 and 04/42
	5.149 5.419 5.420	5.149				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
2690 - 2700	EARTH EXPLORATION – SATELLITE (passive)	EARTH EXPLORATION – SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Passive Services			
	5.340	5.340				
2700 - 2900	AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION 5.337	Radar and Navigation Systems		ECC/REC(02)09	Annex 10 to the Convention on International Civil Aviation.
			Meteorological radar			
	Radiolocation	Radiolocation				
	5.423	5.423	Maritime Radionavigation Service			
2900 - 3100	RADIONAVIGATION 5.426	RADIONAVIGATION 5.426	Radar and navigation systems			Annex 10 to the Convention on International Civil Aviation.
			Maritime Radionavigation Service			
	RADIOLOCATION 5.424A	RADIOLOCATION 5.424A	Radar Beacons (RACONS)			IALA Recommendation R-101 and ITU-R M.824
	5.425 5.427	5.425 EU2 5.427 EU27				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
3100 - 3300	RADIOLOCATION	RADIOLOCATION	Radars, Active Sensors, Racons			
	Earth exploration-Satellite (active)	Earth exploration-satellite (active)				
	Space research (active)	Space research (active)				
	5.149	5.149 EU2 EU27	Maritime Radionavigation Service			
3300 - 3400	RADIOLOCATION	RADIOLOCATION	Radars			Upper limit for Airborne Radars is 3410 MHz
	5.149	5.149 EU2	Maritime Radionavigation Service			
3400 - 3600	FIXED	FIXED	Terrestrial electronic communications services, including FWPMA	National Legislation: S.I. 287 of 1999  European Legislation: Decision 2008/411/EC		
			Terrestrial electronic communications services, including FWALA	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003  European Legislation: Decision 2008/411/EC	ECC/DEC/(07)02 ECC/REC(04)05 ERC/REC 14-03	See ComReg documents 06/17R3, 06/17a and 06/18
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	Fixed satellite (S/E): Licence exempt VSAT receivers	National Legislation: S.I. 273 of 2000		See ComReg document 00/64R
	Mobile 5.430A	MOBILE 5.430A		European Legislation: Decision 2008/411/EC		
	Radiolocation	Radiolocation  Amateur	Radiolocation (Government Services)			

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
3600 - 4200	FIXED	FIXED	Terrestrial electronic communications services, including FWALA (3600 - 3800 MHz)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003  European Legislation: Decision 2008/411/EC	ECC/REC(04)05	See ComReg documents 06/17R3, 06/17a and 06/18
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	Fixed-Satellite (S/E): Licence exempt VSAT receivers	National Legislation: S.I. 273 of 2000	ECC/DEC(05)09	See ComReg document 00/64R
	Mobile (3400 – 4200 MHz)	MOBILE (3600 – 3800 MHz only)		European Legislation: Decision 2008/411/EC		
4200 - 4400	AERONAUTICAL RADIONAVIGATION 5.438	AERONAUTICAL RADIONAVIGATION 5.438	Radio Altimeters			
	5.440	5.440 EU18				
4400 - 4500	FIXED	FIXED				
	MOBILE	MOBILE				
		EU2 EU27				
4500 - 4800	FIXED	FIXED				
	FIXED-SATELLITE (S/E) 5.441	FIXED-SATELLITE (S/E) 5.441	Fixed satellite (S/E)	National Legislation: S.I. 273 of 2000		National Allotment for Fixed-Satellite (space-Earth) (4500 – 4800 MHz), Appendix 30B, Radio Regulations  See ComReg document 00/64R
	MOBILE	MOBILE				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU27				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
4800 - 4990	FIXED	FIXED				
	MOBILE 5.442	MOBILE except aeronautical mobile				
	Radio Astronomy	Radio astronomy				
	5.149 5.150 5.339	5.149 EU27 5.339	Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
4990 - 5000	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	Space Research (passive)					
5.149	5.149 EU27	Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R	
5000 – 5010	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Microwave Landing Systems (MLS)			
	RADIONAVIGATION-SATELLITE (E/S)	RADIONAVIGATION-SATELLITE (E/S)				
		Radio astronomy				
		Space research (passive)				
5.367	5.367	Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R	

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
5010 – 5030	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Microwave Landing Systems (MLS)			
	RADIONAVIGATION-SATELLITE (E/S)(S/S) 5.443B 5.328B	RADIONAVIGATION-SATELLITE (S/E)(S/S) 5.443B 5.328B				
		Radio astronomy				
		Space research (passive)				
	5.367	5.367				
5030 - 5091	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Microwave Landing Systems (MLS)			ITU Radio Regulation Footnote 5.444 gives priority to MLS in this band over other users.
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	Annex 10 to the Convention on International Civil Aviation.  See ComReg document 02/71R
	5.367 5.444	5.367 EU 18 5.444				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
5091 – 5150	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Microwave Landing Systems (MLS)			ITU Radio Regulation Footnote 5.444 gives priority to MLS in this band over other users.  Annex 10 to the Convention on International Civil Aviation.
	AERONAUTICAL MOBILE 5.444B					
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.367 5.444 5.444A	5.367 EU18 5.444 5.444A				
5150 – 5250	AERONAUTICAL RADIONAVIGATION					
	FIXED–SATELLITE (E/S) 5.447A	FIXED–SATELLITE (E/S) 5.447A	Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
	MOBILE except aeronautical mobile 5.446A 5.446B	MOBILE except aeronautical mobile 5.446A 5.446B				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/513/EC Decision 2007/90/EC Recommendation 2003/203/EC	ECC/DEC(04)08 ERC/REC 70-03	See ComReg document 02/71R
	5.446 5.446C 5.447B 5.447C	5.446 5.447 5.447B 5.446C 5.447C				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
5250 - 5255	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH 5.447D	SPACE RESEARCH 5.447D				
	MOBILE except aeronautical mobile 5.446A 5.447F	MOBILE except aeronautical mobile 5.446A 5.447F				
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/513/EC Decision 2007/90/EC Recommendation 2003/203/EC	ECC/DEC(04)08 ERC/REC 70-03	See ComReg document 02/71R
	5.447E 5.448A	5.448A EU2 EU22				
5255 - 5350	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	MOBILE except aeronautical mobile 5.446A 5.447F	MOBILE except aeronautical mobile 5.446A 5.447F				
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R



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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	5.447E 5.448A	5.448A EU2 EU22	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/513/EC Decision 2007/90/EC Recommendation 2003/203/EC	ECC/DEC(04)08 ERC/REC 70-03	See ComReg document 02/71R
5350 - 5460	EARTH EXPLORATION-SATELLITE (active) 5.448B	EARTH EXPLORATION-SATELLITE (active) 5.448B				
	SPACE RESEARCH (active) 5.448C	SPACE RESEARCH (active) 5.448C				
	AERONAUTICAL RADIONAVIGATION 5.449	AERONAUTICAL RADIONAVIGATION 5.449				
	RADIOLOCATION 5.448D	RADIOLOCATION 5.448D				
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
		Fixed EU2 EU22				
5460 - 5470	RADIONAVIGATION 5.449	RADIONAVIGATION 5.449				
	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	RADIOLOCATION 5.448D	RADIOLOCATION 5.448D				
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		5.448B EU2 EU22				
5470 - 5570	MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION	Meteorological Service Radar Radiolocation: Position Fixing Equipment			
	MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A				
	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	RADIOLOCATION 5.450B	RADIOLOCATION 5.450B				
			Weather Radar			
			Amateur (Secondary) FSTV			
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/513/EC Decision 2007/90/EC Recommendation 2003/203/EC	ECC/DEC(04)08 ERC/REC 70-03	See ComReg document 02/71R
	5.448B	5.448B EU2 EU22				

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Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
5570 - 5650	MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION	Meteorological Service Radar Radiolocation: Position Fixing Equipment			
	MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A				
	RADIOLOCATION 5.450B	RADIOLOCATION 5.450B				
			Amateur (Secondary) FSTV			
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/513/EC Decision 2007/90/EC Recommendation 2003/203/EC	ECC/DEC(04)08 ERC/REC 70-03	See ComReg document 02/71R
			Weather Radar			
	5.451 5.452	5.452 EU2 EU22				
5650 - 5725	RADIOLOCATION	RADIOLOCATION				
	MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A				
	Amateur	Amateur	Amateur (5650-5850 MHz) (Secondary)			
	Space Research (deep space)					

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
		Amateur-satellite (E/S)		National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
			Short Range Devices	S National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/513/EC Decision 2007/90/EC  Commission Recommendation 2003/203/EC	ECC/DEC(04)08 ERC/REC 70-03	See ComReg document 02/71R
	5.282	5.282 EU2 EU17 EU22				
5725 - 5830	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)				
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur	Amateur (5650 – 5850 MHz) (secondary)			
		Mobile				
			Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
			FWA (5725 – 5875 MHz)		ECC/REC/(06)04	
			Short Range Devices	S National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03 ECC/DEC(02)01	See ComReg document 02/71R
	5.150 5.451	5.150 EU2 EU22				
5830 - 5850	FIXED–SATELLITE (E/S)	FIXED–SATELLITE (E/S)	Fixed-Satellite (E/S)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur		National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		
	Amateur–Satellite (S/E)	Amateur–Satellite (S/E)	Amateur (5650 –5850 MHz) (secondary)			
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03	See ComReg document 02/71R
			FWA (5725 – 5875 MHz)		ECC/REC/(06)04	
		Mobile				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.150	5.150 EU2 EU22				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
5850 - 5925	FIXED	FIXED				
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)	Fixed-Satellite (E/S): VSATs	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
	MOBILE	MOBILE				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU Decision 2008/671/EC	ERC/REC 70-03	See ComReg document 02/71R
			Intelligent Transport Systems		ECC/DEC/(08)01 ECC/REC/(08)01	
			FWA (5725 – 5875 MHz)		ECC/REC/(06)04	
	5.150	5.150				
5925 - 6700	FIXED	FIXED	Fixed Point-Point Radio Links (Infrastructure) (5925 - 6425 MHz)	National Legislation: S.I. 370 of 2009	ERC/REC 14-01 E: Annex 1	See ComReg documents 09/89 and 09/89A
			Fixed Point-Point Radio Links (Infrastructure) (6425 – 7125 MHz)	National Legislation: S.I. 370 of 2009	ERC/REC 14-02 E: Annex 1	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (E/S) 5.457A	FIXED-SATELLITE (E/S) 5.457A	Fixed-Satellite (E/S): VSATs	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007	ECC/DEC/(05)09	See ComReg document 00/64R
	MOBILE					
			Earth exploration-satellite (passive) (6425 – 6700 MHz)			
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	5.149 5.440 5.458	5.149 5.440 5.458				
6700 - 7075	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 14-02 E: Annex 1	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (E/S)(S/E) 5.441	FIXED-SATELLITE (E/S)(S/E) 5.441	Fixed Satellite (E/S) (S/E)	National Legislation: S.I. 295 of 2007		National Allotment for Fixed-Satellite Uplink (6725 - 7025 MHz) Appendix 30B, Radio Regulations
	MOBILE					
		Earth exploration-satellite (passive)				
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
	5.458 5.458A 5.458B 5.458C	5.458 5.458A 5.458B 5.458C				
7075 - 7145	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 14-02 ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  Note: Part of the L7 band (7125 -7425 MHz ) may be allocated towards unidirectional links such as ENG/OB
	MOBILE					
		Earth exploration-satellite (passive)				
	5.458	5.458				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
7145 - 7235	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  Note: Part of the L7 band (7125 -7425 MHz ) may be allocated towards unidirectional links such as ENG/OB
	MOBILE	MOBILE				
	SPACE RESEARCH (E/S) 5.460	SPACE RESEARCH (E/S) 5.460				
		Earth exploration-satellite (E/S)				
	5.458	Space operation (E/S) 5.458				
7235 - 7250	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  Note: Part of the L7 band (7125 -7425 MHz ) may be allocated towards unidirectional links such as ENG/OB
	MOBILE					
		Earth exploration-satellite (E/S)				
	5.458	Space research (E/S)				



# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
7250 -7300	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  Note: Part of the L7 band (7125 -7425 MHz ) may be allocated towards unidirectional links such as ENG/OB
	FIXED-SATELLITE (s-E)	FIXED-SATELLITE (S-E)	Fixed satellite (S/E)	National Legislation: S.I. 295 of 2007		
	MOBILE	MOBILE	Meteorological satellite (S/E)			
	5.461	5.461 EU2 EU27				
7300 - 7450	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  Note: Part of the L7 band (7125 -7425 MHz ) may be allocated towards unidirectional links such as ENG/OB
	FIXED-SATELLITE (s/E)	FIXED-SATELLITE (S/E)	Fixed-Satellite (S/E)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.461	5.461 EU2 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
7450 - 7550	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	Fixed-Satellite (S/E)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R
	METEOROLOGICAL-SATELLITE (S/E)	METEOROLOGICAL-SATELLITE (S/E)	Meteorological-Satellite (S/E)			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.461A	5.461A EU2 EU27				
7550 - 7750	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  ITU-R F.386-6 Annex 1
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)	Fixed-Satellite (S/E)	National Legislation: S.I. 295 of 2007		See ComReg 00/64R
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
		EU2 EU27				
7750 - 7850	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  ITU-R F.386-6 Annex 1
	METEOROLOGICAL-SATELLITE (S/E) 5.461B	METEOROLOGICAL-SATELLITE (S/E) 5.461B				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile  EU2				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
7850 - 7900	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A ITU-R F.386-6 Annex 1
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
7900 - 8025	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A ITU-R F.386-6 Annex 1
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)	Fixed satellite (E/S)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R
	MOBILE	MOBILE				
			Meteorological Satellite (E/S)			
			Earth exploration satellite service (S/E)			
	5.461	5.461 EU2 EU27				
8025 - 8175	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A ITU-R F.386-6 Annex 1
	EARTH EXPLORATION-SATELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E)				
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)	Fixed satellite (E/S)	National Legislation: S.I. 295 of 2007		
	MOBILE 5.463	MOBILE 5.463				
			Meteorological Satellite (E/S)			
			Earth exploration satellite service (S/E)			
	5.462A	5.462A EU2 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
8175 - 8215	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  ITU-R F.386-6 Annex 1
	EARTH EXPLORATION-SATELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E)	Earth exploration satellite service (S/E)			
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)	Fixed satellite (E/S)	National Legislation: S.I. 295 of 2007		
	MOBILE 5.463	MOBILE 5.463				
	METEOROLOGICAL-SATELLITE (E/S)	METEOROLOGICAL-SATELLITE (E/S)	Meteorological Satellite (E/S)			
	5.462A	5.462A EU2 EU27				
8215 - 8400	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  ITU-R F.386-6 Annex 1  ITU-R F.386-6 Annex 3
	EARTH EXPLORATION-SATELLITE (S/E)	EARTH EXPLORATION-SATELLITE (S/E)	Earth exploration satellite service (S/E)			
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)	Fixed satellite (E/S)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R
	MOBILE 5.463					
			Meteorological Satellite (E/S)			
	5.462A	5.462A EU2 5.463 EU27				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
8400 - 8500	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89 and 09/89A  ITU-R F.386-6 Annex 3
	MOBILE except aeronautical Mobile					
	SPACE RESEARCH (S/E) 5.465	SPACE RESEARCH (S/E) 5.465  Radiolocation				
8500 - 8550	RADIOLOCATION	RADIOLOCATION	Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		5.469 EU2 EU24				
8550 - 8650	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	5.469A	5.469 EU2 5.469A EU24	Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
8650 - 8750	RADIOLOCATION	RADIOLOCATION	Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		5.469 EU2 EU24				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
8750 - 8850	RADIOLOCATION	RADIOLOCATION				
	AERONAUTICAL RADIONAVIGATION 5.470	AERONAUTICAL RADIONAVIGATION 5.470	Airborne Doppler Radar			
		Space research				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		EU2 EU24				
8850 - 9000	RADIOLOCATION	RADIOLOCATION				
	MARITIME RADIONAVIGATION 5.472	MARITIME RADIONAVIGATION 5.472				
		Space research				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
		5.473 EU2 EU24				
9000 - 9200	AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION 5.337	Radar (Government services)			
	RADIOLOCATION	RADIOLOCATION				
		Space research				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.473A	EU2 EU24				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
9200 - 9300	RADIOLOCATION	RADIOLOCATION				
	MARITIME RADIONAVIGATION 5.472	MARITIME RADIONAVIGATION 5.472				
		Space research				
	5.474	5.473 EU2 5.474 EU24	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
9300 - 9500	RADIONAVIGATION	RADIONAVIGATION	Weather Radar Radiolocation: Position Fixing (Private operators)			
	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	RADIOLOCATION	RADIOLOCATION	Maritime RACONs			
			Maritime Radionavigation Service			
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.427 5.474 5.475 5.475A 5.475B 5.476A	5.427 EU2 5.474 EU24 5.475 5.475A 5.475B 5.476A				

# 27.5 MHz to 10000 MHz

Frequency Band (MHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
9500 - 9800	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION	RADIONAVIGATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
				Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
5.476A	5.476A EU2 EU24					
9800 - 9900	RADIOLOCATION	RADIOLOCATION				
	Earth exploration-satellite (active)	Earth exploration-satellite (active)				
	Space research (active)	Space research (active)				
	fixed					
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
5.478A 5.478B	5.478A 5.478B					
9900 - 10000	RADIOLOCATION	RADIOLOCATION				
	Fixed	FIXED				
	5.479	5.477 5.478 5.479	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R



Spectrum from 10 GHz to 1000 GHz

05



# 10 GHz to 1000 GHz

## GENERAL INFORMATION

All radio and telecommunications terminal equipment must comply with the R&TTE Directive. Please see [http://www.comreg.ie/radio\\_spectrum/randtte.543.420.html](http://www.comreg.ie/radio_spectrum/randtte.543.420.html) for further details.

All apparatus for Wireless Telegraphy requires a licence unless it has been specifically exempted from licensing under Irish Legislation by means of an Exemption Order. Please see [http://www.comreg.ie/radio\\_spectrum/exemptions.541.488.rslicensing.html](http://www.comreg.ie/radio_spectrum/exemptions.541.488.rslicensing.html) for further details.

The following references apply to the spectrum from 10 GHz to 1 000 GHz:

1. Commission Decision 676/2002/EC of the European Parliament and of the Council of 7 March 2002 on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision).  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2002/l\\_108/l\\_10820020424en00010006.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2002/l_108/l_10820020424en00010006.pdf)
2. Commission Decision 2007/131/EC of 21 February 2007 on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2007/l\\_055/l\\_05520070223en00330036.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2007/l_055/l_05520070223en00330036.pdf)
3. Commission Decision 2009/343/EC of 21 April 2009 amending Decision 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.  
See: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:105:0009:0013:EN:PDF>
4. Directive 1999/5/ec of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.  
See: [http://eur-lex.europa.eu/LexUriServ/site/en/oj/1999/l\\_091/l\\_09119990407en00100028.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/1999/l_091/l_09119990407en00100028.pdf)
5. Wireless Telegraphy Act, 1926 (Number 45 of 1926). See <http://www.irishstatutebook.ie/1926/en/act/pub/0045/index.html>
6. S.I. 193 of 2009, "Wireless Telegraphy (Aircraft Station Licence) Regulations 2009", applies to licences to keep, have possession of, install, maintain, work and use apparatus for wireless telegraphy forming part of an Aircraft Station, and having the characteristics set out therein.  
See: <http://www.comreg.ie/fileupload/publications/SI193of2009.pdf>
7. S.I. 369 of 2009, "Wireless Telegraphy (Radiodetermination, Air Traffic and Maritime Services) Regulations 2009", applies to Licences to keep, have possession of, install, maintain, work and use apparatus for wireless telegraphy for the purpose of the provision of Radiodetermination Services, Air Traffic Service Systems or Maritime Service Systems, and having the characteristics set out therein.

See: <http://www.comreg.ie/fileupload/publications/SI369of2009.pdf>

The following reference applies to the spectrum from 10 GHz to 10.6 GHz:

8. ECC Decision (06)04 of 24 March 2006 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz.  
See: <http://www.erodocb.dk/docs/doc98/Official/Pdf/ECCDec0604.pdf>
9. ECC Decision (06)12 of 01 December 2006 on supplementary regulatory provisions to Decision ECC/DEC/(06)04 for UWB devices using mitigation techniques (amended 31 October 2008).  
See: <http://www.erodocb.dk/Docs/doc98/official/pdf/ECCDEC0612amended.PDF>

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
10 - 10.45	FIXED	FIXED	FWALA (10.15 – 10.3 GHz / 10.5 – 10.65 GHz)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003		FWALA services (10.15–10.3 GHz). See ComReg document 06/17R3 for details of band plan and pairing arrangements.
	MOBILE	MOBILE (10-10.3 GHz) Mobile (10.3-10.45 GHz)				See ComReg document 08/08
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur	Amateur (secondary)	National Legislation: S.I. 192 of 2009		
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.479	5.479 EU2 EU17		SAP/SAB		ERC/REC 25-10
10.45 - 10.5	RADIOLOCATION	RADIOLOCATION			ERC/REC 12-05 (Fixed links)	
		FIXED				
		MOBILE				See ComReg document 08/08
	Amateur	Amateur	Amateur (secondary) (10–10.5 GHz)	National Legislation: S.I. 192 of 2009		
	Amateur-Satellite	Amateur-Satellite	Amateur-Satellite (secondary)	National Legislation: S.I. 192 of 2009		
			SAP/SAB		ERC/REC 25-10	
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.481 EU2					

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
10.5 - 10.55	FIXED	FIXED	FWALA (10.15 – 10.3 GHz / 10.5 – 10.65 GHz)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003		See ComReg documents 06/17R3, 06/17a and 06/18
	MOBILE	MOBILE				
	Radiolocation	Radiolocation	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
			SAP/SAB		ERC/REC 25-10	
10.55 - 10.6	FIXED	FIXED	FWALA (10.15 – 10.3 GHz / 10.5 – 10.65 GHz)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003		FWA services (10.5 – 10.65 GHz). See ComReg document 06/17R3 for details of band plan and pairing arrangements.
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	Radiolocation	Radiolocation	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
			SAP/SAB		ERC/REC 25-10	
10.6 - 10.68	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED	Fixed	National Legislation: S.I. 370 of 2009	ERC/REC 12-05 ECC/DEC(10)01	
			FWALA (10.15 – 10.3 GHz / 10.5 – 10.65 GHz)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003	ECC/DEC(10)01	FWA services (10.5 – 10.65 GHz). See ComReg document 06/17R3 for details of band plan and pairing arrangements.
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	Radiolocation	Radiolocation (to 10.65 GHz)	Radiolocation (security devices)			
			SAP/SAB		ERC/REC 25-10	
	5.149 5.482 5.482A	5.149 5.482 5.482A				
10.68 - 10.7	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
10.7 - 11.7	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-06 Annex E	See ComReg documents 09/89 and 09/89A  ITU-R F.387-6 Annex 2
	FIXED-SATELLITE (S/E) 5.441 5.484A (E/S) 5.484	FIXED-SATELLITE (S/E) 5.441 5.484A (E/S) 5.484	Earth Stations (Satellite Down Links) (Broadcasters) VSAT and Transportable Earth Stations	National Legislation: S.I. 273 of 2000 S.I. 398 of 2001 S.I. 505 of 2003 S.I. 343 of 2008	ERC/DEC(00)08 ECC/DEC/(05)10 ECC/DEC/(05)11 ECC/DEC/(06)02 ECC/DEC/(06)03	See ComReg document 00/64R.  National Allotment for Fixed-Satellite Down Link (10.7 - 10.95 GHz, 11.2-11.45 GHz) ITU Radio Regulations Appendix 30B
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
		Mobile-satellite (S/E)				See ComReg document 00/64R.

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
11.7 - 12.5	FIXED BROADCASTING	FIXED	MMDS Programme Services Distribution	National Legislation: S.I. 529 of 2003		See ComReg documents 04/26, 04/27 and 04/28
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	SNG downlink ENG downlink (Public Broadcasters)	National Legislation: S.I. 505 of 2003	ERC/DEC(00)08	Broadcast-Satellite plans as per ITU Radio Regulations Appendix 30.
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.487 5.487A 5.492	5.487 EU28 5.487A 5.492				
12.5 - 12.75	FIXED-SATELLITE (S/E) 5.484A (E/S)	FIXED-SATELLITE (S/E) 5.484A (E/S)	VSAT and Transportable Earth Stations	National Legislation: S.I. 273 of 2000 S.I. 398 of 2001 S.I. 505 of 2003 S.I. 343 of 2008	ECC/DEC/(05)10 ECC/DEC/(05)11 ECC/DEC/(06)03	See ComReg document 00/64R.
		5.495 5.496				
12.75 - 13.25	FIXED	FIXED	Fixed Links (12.75 - 13.25 GHz)	National Legislation: S.I. 370 of 2009	ERC/REC 12-02 E	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (E/S) 5.441	FIXED-SATELLITE (E/S) 5.441	Transportable Earth Stations			National Allotment for Fixed-Satellite Uplink (12.75 - 13.25 GHz) in ITU Radio Regulations Appendix 30B  See ComReg document 00/64R.
	MOBILE					
	Space Research (deep space) (S/E)					



# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
13.25 - 13.4	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	AERONAUTICAL RADIONAVIGATION 5.497	AERONAUTICAL RADIONAVIGATION 5.497				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	5.498A	5.498A EU26				
13.4 - 13.75	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH 5.501A	SPACE RESEARCH 5.501A				
	Standard Frequency and Time Signal-satellite (E/S)					
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
5.501 5.501B	5.501B EU2 EU26					
13.75 - 14	RADIOLOCATION	RADIOLOCATION				
	FIXED-SATELLITE (E/S) 5.484A	FIXED-SATELLITE (E/S) 5.484A	VSAT and Transportable Earth Stations			See ComReg document 00/64R.
	Standard Frequency and Time Signal-satellite (E/s)					
	Space Research Earth-satellite	Space Research				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R.
5.501 5.502 5.503	5.502 EU2 5.503 EU26					

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
14 - 14.25	FIXED–SATELLITE (E/S) 5.457A 5.484A 5.506	FIXED–SATELLITE (E/S) 5.457A 5.457B 5.484A 5.506 5.506B	Earth Stations (Satellite uplinks)  Public Broadcasters Uplinks  VSAT (14-14.5 GHz) Uplinks  Transportable Earth Stations (SNG) uplinks  ENG uplinks	National Legislation: S.I. 273 of 2000 S.I. 398 of 2001 S.I. 505 of 2003 S.I. 343 of 2008	ERC/REC 13-03 ECC/DEC/(05)10 ECC/DEC/(05)11 ECC/DEC/(06)02 ECC/DEC/(06)03	See ComReg document 00/64R.
	RADIONAVIGATION 5.504					
	Mobile–satellite (E/S) 5.506A	Mobile–satellite (E/S) 5.506A 5.504C				
	Space Research 5.504A	Space Research 5.504				
14.25 - 14.3	FIXED–SATELLITE (E/S) 5.484A 5.506 5.457A	FIXED–SATELLITE (E/S) 5.484A 5.506 5.506B 5.457A 5.457B	Earth Stations (Satellite uplinks)  (Public Broadcasters)uplinks  VSAT (14-14.5 GHz) uplinks  Transportable Earth Stations (SNG) uplinks	National Legislation: S.I. 273 of 2000	ERC/REC 13-03 (VSAT/SNG) ECC/DEC/(05)10 ECC/DEC/(05)11	See ComReg document 00/64R.
	RADIONAVIGATION 5.504					
	Mobile–SATELLITE (E/S) 5.506A 5.508A	Mobile–satellite (E/S) 5.506A 5.508A				
	Space Research 5.504A 5.508	Space Research 5.504				
14.3 - 14.4	FIXED			National Legislation: S.I. 370 of 2009		

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	FIXED-SATELLITE (E/S) 5.547A 5.484A 5.506	FIXED-SATELLITE (E/S) 5.547A 5.484A 5.506	ENG uplinks  VSAT (14-14.5 GHz) uplinks  SNG uplinks	National Legislation: S.I. 273 of 2000	ERC/REC 13-03 (VSAT/SNG) ECC/DEC/(05)10 ECC/DEC/(05)11	See ComReg document 00/64R.
	MOBILE except aeronautical mobile					
	Mobile-satellite (E/S) 5.509A	Mobile-satellite (E/S) 5.506B 5.509A				
	Radionavigation-satellite  5.504A					
14.4 -14.47	FIXED					
	FIXED-SATELLITE (E/S) 5.547A 5.484A 5.506	FIXED-SATELLITE (E/S) 5.547A 5.484A 5.506	ENG uplinks  VSAT (14-14.5 GHz) uplinks  SNG uplinks	National Legislation: S.I. 273 of 2000	ERC/REC 13-03 (VSAT/SNG) ECC/DEC/(05)10 ECC/DEC/(05)11	See ComReg document 00/64R.
	MOBILE except aeronautical mobile					
	Mobile-satellite (E/S) 5.506A 5.509A	Mobile-satellite (E/S) 5.506A 5.509A				
	Space Research (S/E)  5.504A	  5.504A				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
14.47 -14.5	FIXED					
	FIXED-SATELLITE (E/S) 5.547A 5.484A 5.506	FIXED-SATELLITE (E/S) 5.484A 5.506	ENG uplinks  VSAT uplinks  SNG uplinks	National Legislation: S.I. 273 of 2000	ERC/REC 13-03 (VSAT/SNG) ECC/DEC/(05)10 ECC/DEC/(05)11	See ComReg document 00/64R.
	MOBILE except aeronautical mobile					
	Mobile-satellite (E/S) 5.504B 5.506A 5.509A	Mobile-satellite (E/S) 5.504B 5.506A 5.509A				
	Radio Astronomy	Radio Astronomy				
5.149 5.504A	5.149 5.504A					
14.5 - 14.8	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-07	See ComReg documents 09/89 and 09/89A  ITU-R F.636-3
	FIXED-SATELLITE (E/S) 5.510					
	MOBILE	MOBILE				
	Space Research	Radio astronomy				
		EU27				
14.8 - 15.35	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-07	See ComReg documents 09/89 and 09/89A  ITU-R F.636-3
	MOBILE	MOBILE				
	Space Research	Radio astronomy				
	5.339	5.339 EU27				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
15.35 - 15.4	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
15.4 - 15.43	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION				
	5.511D	5.511D				
15.43 - 15.63	FIXED-SATELLITE (E/S) 5.511A	FIXED-SATELLITE (E/S)				
	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION				
	5.511C	5.511C				
15.63 - 15.7	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION				
	5.511D	5.511D				
15.7 - 16.6	RADIOLOCATION	RADIOLOCATION	Surface Movement Radar			Annex 10 to the Convention on International Civil Aviation
		EU27				
16.6 - 17.1	RADIOLOCATION	RADIOLOCATION				
	Space Research (deep space) (E/S)	Space Research (deep space) (E/S)				
		EU27				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
17.1 - 17.2	RADIOLOCATION	RADIOLOCATION				
		Mobile				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2002	ERC/REC 70-03	See ComReg Document 02/71R.
		EU2				
17.2 - 17.3	EARTH EXPLORATION SATELLITE (active)	EARTH EXPLORATION SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
		MOBILE				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2002	ERC/REC 70-03	See ComReg Document 02/71R.
	5.513A	5.513A EU2				
17.3 - 17.7	FIXED-SATELLITE (E/S) 5.516 (S/E) 5.516A 5.516B	FIXED-SATELLITE (E/S) 5.516 (S/E) 5.516A 5.516B				Feeder Link plans for Broadcast Satellites as per ITU Radio Regulations Appendix 30A
	Radiolocation	Radiolocation				
		EU2				
17.7 - 18.1	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-03 E Annex A ECC/DEC(00)07	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E) 5.484A (E/S) 5.516	FIXED-SATELLITE (S-E) 5.484A (E/S) 5.516				
	MOBILE					

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
18.1 - 18.4	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-03 E Annex A ECC/DEC(00)07	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E) 5.484A (E/S) 5.520	FIXED-SATELLITE (S-E) 5.484A (E/S) 5.520				
	MOBILE					
	5.519	METEOROLOGICAL-SATELLITE (S/E)				
18.4 - 18.6	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-03 E Annex A ERC/DEC(00)07	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E) 5.484A	FIXED-SATELLITE (S/E) 5.484A				
	MOBILE					
18.6 - 18.8	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-03 E Annex A ERC/DEC(00)07	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E) 5.552B	FIXED-SATELLITE (S/E) 5.552B				
	MOBILE except aeronautical mobile					
	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	Space Research (passive) 5.522A	5.522A				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
18.8 - 19.3	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-03 E Annex A ERC/DEC(00)07	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E) 5.523A	FIXED-SATELLITE (S/E) 5.523A	Earth Station Down Links (Educational Institutions)			
	MOBILE					
19.3 - 19.7	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 12-03 E Annex A ERC/DEC(00)07	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E)(E/S) 5.523B 5.523C 5.523D 5.523E	FIXED-SATELLITE (S/E)(E/S) 5.523B 5.523C 5.523D 5.523E	Earth Station Down Links (Educational Institutions)			
	MOBILE					
19.7 - 20.1	FIXED-SATELLITE (S/E) 5.484A 5.516B	FIXED-SATELLITE (S/E) 5.484A 5.516B		National Legislation: S.I. 505 of 2003	ECC/DEC/(06)02 ECC/DEC/(06)03	
	Mobile-satellite (s-E)	Mobile-satellite (S-E)				
20.1 - 20.2	FIXED-SATELLITE (S/E) 5.484A 5.516B	FIXED-SATELLITE (S/E) 5.484A 5.516B		National Legislation: S.I. 505 of 2003	ECC/DEC/(06)02 ECC/DEC/(06)03	
	MOBILE-SATELLITE (S/E) 5.525 5.526 5.527 5.528	Mobile-Satellite (S/E) 5.525 5.526 5.527 5.528				
20.2 - 21.2	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE-SATELLITE (S/E)	MOBILE-SATELLITE (S/E)				
	Standard Frequency and Time Signal-satellite (S/E)					
		EU2 EU27				



# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
21.2 - 21.4	EARTH EXPLORATION - SATELLITE (passive)	EARTH EXPLORATION - SATELLITE (passive)				
	FIXED	FIXED				
	MOBILE	MOBILE				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
21.4 - 22	FIXED					
	MOBILE					
	BROADCASTING - SATELLITE 5.208B	BROADCASTING - SATELLITE 5.208B				
	5.530	5.530	Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R
22 - 22.21	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 13-02 E Annex A	See ComReg documents 09/89 and 09/89A
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
		RADIO ASTRONOMY				
		SPACE RESEARCH (passive)				
	5.149	5.149	Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R.

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
22.21 - 22.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 13-02 E Annex A	See ComReg documents 09/89 and 09/89A
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
		Mobile		Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10
	5.149 5.532	5.149 5.532				
22.5 - 22.55	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 13-02 E Annex A	See ComReg documents 09/89 and 09/89A
	MOBILE	MOBILE				
		RADIO ASTRONOMY				
		SPACE RESEARCH (passive)				
			Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
22.55 - 23.55	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 13-02 E Annex A	See ComReg documents 09/89 and 09/89A
	INTER-SATELLITE 5.338A	INTER-SATELLITE 5.338A				
	MOBILE	MOBILE				
		RADIO ASTRONOMY				
		SPACE RESEARCH (passive)				
			Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R
5.149	5.149					
23.55 - 23.6	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 13-02 E Annex A	See ComReg documents 09/89 and 09/89A
	MOBILE	MOBILE				
		INTER-SATELLITE				
			Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
23.6 - 24	EARTH EXPLORATION – SATELLITE (passive)	EARTH EXPLORATION – SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340	Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R
24 - 24.05	AMATEUR	AMATEUR	Amateur	S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-Satellite	S.I. 192 of 2009		
			Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ERC/REC 70-03 ECC/DEC(04)10	See ComReg document 02/71R.
	5.150	5.150				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
24.05 - 24.25	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Earth Exploration-Satellite (active)	Earth Exploration-Satellite (active)				
		Fixed				
		Mobile				See ComReg document 08/08
			Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU Decision 2005/50/EC	ERC/REC 70-03 ECC/DEC(04)10	See ComReg document 02/71R
	5.150	5.150 EU2				
24.25 - 24.45	FIXED	FIXED				
		MOBILE				
			Short Range Devices Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ERC/REC 70-03 ECC/DEC(04)10	See ComReg document 02/71R

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
24.45 - 24.65	FIXED	FIXED	FWPMA (24.549 – 24.605 GHz / 25.557 – 25.613 GHz)	National Legislation: S.I. 338 of 2003 S.I. 467 of 2002 S.I. 287 of 1999	ERC/REC (00)05	
			FWALA (24.605 – 24.745 / 25.613 – 25.753)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003		
	INTER-SATELLITE					
		MOBILE (24.45-24.5 GHz)				
			Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ERC/REC 70-03 ECC/DEC(04)10	See ComReg document 02/71R
24.65 - 24.75	FIXED	FIXED	FWALA (24.605 – 24.745 / 25.613 – 25.753)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003	ERC/REC 00-05	See ComReg documents 06/17R3, 06/17a, 06/18
			INTER-SATELLITE			
			Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
24.75 - 25.25	FIXED	FIXED	Fixed National Point-to-Point Links (24.913 – 25.221 GHz / 25.921 – 26.229 GHz)	National Legislation: S.I. 762 of 2007		See ComReg document 07/93R, 06/37CR
			Fixed National Point-to-Multipoint Links (24.801 – 24.885 GHz / 25.809 – 25.893 GHz)	National Legislation: S.I. 762 of 2007		See ComReg document 07/93R, 06/37CR
			Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R
25.25 - 25.5	FIXED	FIXED	Fixed Links	National Legislation: S.I. 370 of 2009	ERC/REC 13-02	See ComReg documents 09/89 and 09/89A
	MOBILE	MOBILE				
	INTER-SATELLITE 5.536	INTER-SATELLITE 5.536				
	Standard Frequency and Time Signal-Satellite (E/S)					
			Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes	
25.5 - 27	FIXED	FIXED	Fixed Links (25.277 – 25.445 GHz / 26.285 – 26.453 GHz)	National Legislation: S.I. 370 of 2009	ERC/REC 13-02	See ComReg documents 09/89 and 09/89A	
			FWPMA (24.549 – 24.605 GHz / 25.557 – 25.613 GHz)	National Legislation: S.I. 338 of 2003 S.I. 467 of 2002 S.I. 287 of 1999	ERC/REC/(00)05		
			FWALA (24.605 – 24.745 / 25.613 – 25.753)	National Legislation: S.I. 79 of 2003 S.I. 530 of 2003			See ComReg documents 06/17R3, 06/17a, 06/18
			Fixed National Point-to-Point Links (24.913 – 25.221 GHz / 25.921 – 26.229 GHz)	National Legislation: S.I. 762 of 2007			See ComReg document 07/93R, 06/37CR
			Fixed National Point-to-Multipoint Links (24.801 – 24.885 GHz / 25.809 – 25.893 GHz)	National Legislation: S.I. 762 of 2007			See ComReg document 07/93R, 06/37CR
	EARTH EXPLORATION-SATELLITE (S/E) 5.536A 5.536B	Earth exploration-satellite (S/E) 5.536A 5.536B					
	INTER-SATELLITE 5.536	INTER-SATELLITE 5.536					
	MOBILE	MOBILE					
	SPACE RESEARCH 5.536A	SPACE RESEARCH (S/E) 5.536A 5.536C					
	Standard Frequency and Time Signal-Satellite (E/S)						
			Short Range Devices  Automotive Short Range Radar (21.65 GHz – 26.65 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/50/EC	ECC/DEC(04)10	See ComReg document 02/71R	
		EU27					



# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
27 -27.5	FIXED	FIXED				
	MOBILE	MOBILE				
	INTER-SATELLITE 5.536	INTER-SATELLITE 5.536				
		Earth exploration-satellite (S/E)				
		EU27				
27.5 - 28.5	FIXED	FIXED				Fixed Links (27.5 – 29.5 GHz) under consideration
	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.539				
	MOBILE					
	5.538 5.540	5.538 5.540				
28.5 - 29.1	FIXED	FIXED				Fixed Links (27.5 – 29.5 GHz) under consideration
	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.523A 5.539	FIXED-SATELLITE (E/S) 5.484A 5.516B 5.523A 5.539				
	MOBILE					
	Earth Exploration-Satellite (E/S) 5.541	Earth Exploration-Satellite (E/S) 5.541				
	5.540	5.540				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
29.1 - 29.5	FIXED	FIXED				Fixed Links (27.5 – 29.5 GHz) under consideration
	FIXED-SATELLITE (E/S) 5.523C 5.523E 5.535A 5.539 5.541A 5.516B	FIXED-SATELLITE (E/S) 5.523C 5.523E 5.535A 5.539 5.541A 5.516B				
	MOBILE					
	Earth Exploration-Satellite (E/S) 5.541	Earth Exploration-Satellite (E/S) 5.541				
	5.540	5.540 5.541				
29.5 –29.9	FIXED-SATELLITE (E/S) 5.484A 5.539 5.516B	FIXED-SATELLITE (E/S) 5.484A 5.539 5.516B		S.I. 505 of 2003	ECC/DEC/(06)02 ECC/DEC/(06)03	
	Mobile-satellite (E/S)	Mobile-satellite (E/S)				
	Earth Exploration-Satellite (E/S) 5.541	Earth Exploration-Satellite (E/S) 5.541				
	5.540	5.540				
29.9 - 30	FIXED-SATELLITE (E/S) 5.484A 5.539 5.516B	FIXED-SATELLITE (E/S) 5.484A 5.539 5.516B			ECC/DEC/(06)02 ECC/DEC/(06)03	
	MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)				
	Earth Exploration-Satellite (E/S) 5.541	Earth exploration-satellite (E/S) 5.541				
	5.543 5.525 5.526 5.527 5.538 5.540	5.543 5.525 5.526 5.527 5.538 5.540				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
30 - 31	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)				
	MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)				
	Standard Frequency and Time Signal-satellite (S/E)					
		EU2 EU27				
31 - 31.3	FIXED 5.338A	FIXED 5.338A				Fixed Links under consideration (31 – 31.3 GHz / 31.5 – 31.8 GHz)
	MOBILE	MOBILE				
	Standard Frequency and Time Signal-satellite (S/E)					
	Space Research 5.544 5.149	5.149				
31.3 - 31.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio Astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
31.5 - 31.8	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	Fixed	Fixed				Fixed Links under consideration (31 – 31.3 GHz / 31.5 – 31.8 GHz)
	Mobile except aeronautical mobile 5.149	Mobile except aeronautical mobile 5.149 5.546				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
31.8 - 32	FIXED 5.547A	FIXED 5.547A				Fixed Links under consideration (31.8 – 33.4 GHz)
	RADIONAVIGATION	RADIONAVIGATION				
	SPACE RESEARCH (deep space) (S/E)	SPACE RESEARCH (deep space) (S/E)				
	5.547 5.548	5.547 5.548				
32 - 32.3	FIXED 5.547A	FIXED 5.547A				Fixed Links under consideration (31.8 – 33.4 GHz)
	RADIONAVIGATION	RADIONAVIGATION				
	SPACE RESEARCH (deep space) (S/E)	SPACE RESEARCH (deep space) (S/E)				
	5.547 5.548	5.547 5.548				
32.3 – 33	FIXED 5.547A	FIXED 5.547A				Fixed Links under consideration (31.8 – 33.4 GHz)
	INTER-SATELLITE	INTER-SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION				
	5.547 5.548	5.547 5.548				
33 - 33.4	FIXED 5.547A	FIXED 5.547A				Fixed Links under consideration (31.8 – 33.4 GHz)
	RADIONAVIGATION	RADIONAVIGATION INTER-SATELLITE				
	5.547	5.547				
33.4 - 34.2	RADIOLOCATION	RADIOLOCATION				
		EU2 EU27				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
34.2 - 34.7	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (deep space) (E/S)	SPACE RESEARCH (deep space) (E/S) EU2 EU27				
34.7 - 35.2	RADIOLOCATION	RADIOLOCATION				
	Space Research	Space Research EU2 EU27				
35.2 - 35.5	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS				
	RADIOLOCATION	RADIOLOCATION EU2 EU27				
35.5 - 36	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	5.549A	5.549A EU2 EU27				
36 - 37	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED				
	MOBILE	MOBILE				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive) Radio astronomy				
	5.149 5.550A	5.149 EU27 5.550A				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
37 - 37.5	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 12-01 Annex A	See ComReg documents 09/89 and 09/89A
	MOBILE					
	SPACE OPERATION (S/E)					
	5.547	SPACE RESEARCH (S-E) 5.547 EU2				
37.5 - 38	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 12-01 Annex A	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE					
	SPACE RESEARCH (S/E)	SPACE RESEARCH (S/E)				
	Earth Exploration-Satellite (S/E) 5.547	Earth exploration-satellite (S/E) 5.547 EU2				
38 - 39.5	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	Recommendation T/R 12-01 Annex A	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE					
	Earth Exploration-satellite (S/E)	Earth exploration-satellite (S/E)				
	5.547	5.547 EU2				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
39.5 - 40	FIXED	FIXED				
	FIXED–SATELLITE (S/E) 5.516B	FIXED–SATELLITE (S/E) 5.516B				
	MOBILE	MOBILE				
	MOBILE–SATELLITE (S/E)	MOBILE–SATELLITE (S/E)				
	Earth Exploration-Satellite (S/E)	Earth Exploration-Satellite (S/E)				
	5.547	5.547 EU2				
40 - 40.5	FIXED	FIXED				
	FIXED–SATELLITE (S/E) 5.516B	FIXED–SATELLITE (S/E) 5.516B				
	MOBILE	MOBILE				
	MOBILE–SATELLITE (S/E)	MOBILE–SATELLITE (S/E)				
	EARTH EXPLORATION–SATELLITE (E/S)					
	Earth Exploration–satellite (S/E)	Earth exploration–satellite (S/E)				
	SPACE RESEARCH (E/S)	SPACE RESEARCH (E/S)				
	EU2					

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
40.5 - 41	FIXED	FIXED				
	FIXED-SATELLITE (S/E)					
	BROADCASTING	BROADCASTING				
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE				
	Mobile 5.547	5.547				
41 – 42.0	FIXED	FIXED				
	FIXED-SATELLITE (/SE)					
	BROADCASTING	BROADCASTING				
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE				
	Mobile 5.547 5.551H 5.551I	5.547				
42.0 – 42.5	FIXED	FIXED				
	FIXED-SATELLITE (S/E)					
	BROADCASTING	BROADCASTING				
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE				
	Mobile 5.547 5.551H 5.551I	5.551H 5.551I				



# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
42.5 – 43.5	FIXED	FIXED				
	FIXED–SATELLITE (E/S) 5.552	FIXED–SATELLITE (E/S) 5.552				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.547	5.149 5.547				
43.5 - 47	MOBILE 5.553	MOBILE 5.553				
	MOBILE–SATELLITE	MOBILE–SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION (45.5-47 GHz)				
	RADIONAVIGATION–SATELLITE	RADIONAVIGATION–SATELLITE (45.5 - 47 GHz)				
	5.554	Fixed-satellite (43.5 – 45.5 GHz) 5.554 EU27				
47 - 47.2	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur – satellite			
47.2 – 47.5	FIXED	FIXED				
	FIXED-SATELLITE (E–s) 5.552	FIXED-SATELLITE (E–S) 5.552				
	MOBILE	MOBILE				
	5.552A	Amateur 5.552A				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
47.5 – 47.9	FIXED	FIXED				
	FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B	FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B				
	MOBILE	MOBILE Amateur				
47.9 – 48.2	FIXED	FIXED				
	FIXED-SATELLITE (E/S) 5.552	FIXED-SATELLITE (E/S) 5.552				
	MOBILE 5.552A	MOBILE 5.552A				
48.2 – 48.54	FIXED	FIXED				
	FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B 5.554A 5.555B	FIXED-SATELLITE (E/S) 5.552 (S/E) 5.516B 5.554A 5.555B				
	MOBILE	MOBILE				
48.54 – 49.44	FIXED	FIXED				
	FIXED-SATELLITE (E/S) 5.552	FIXED-SATELLITE (E/S) 5.552				
	MOBILE	MOBILE				
	5.149 5.340 5.555	RADIO ASTRONOMY 5.149 5.340 5.555				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
49.44 – 50.2	FIXED	FIXED				
	FIXED-SATELLITE (E/S) 5.338A 5.552 (S/E) 5.516B 5.554A 5.555B	FIXED-SATELLITE (E/S) 5.338A 5.552 (S/E) 5.516B 5.554A 5.555B				
	MOBILE	MOBILE				
50.2 - 50.4	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
50.4 - 51.4	FIXED	FIXED				
	FIXED-SATELLITE (E/S) 5.338A	FIXED-SATELLITE (E/S) 5.338A				
	MOBILE					
	Mobile-satellite (E/S)	Mobile-satellite (E/S)				
51.4 - 52.6	FIXED 5.338A	FIXED 5.338A				
	MOBILE	MOBILE				
		RADIO ASTRONOMY				
	5.547 5.556	5.547 5.556				
52.6 - 54.25	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.556	5.340 5.556				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
54.25 - 55.78	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	INTER-SATELLITE 5.556A					
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
55.78 - 56.9	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED 5.557A	FIXED 5.557A				
	INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	MOBILE 5.558 5.547	SPACE RESEARCH (passive) 5.547 EU21 5.558				
56.9 - 57	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED				
	INTER-SATELLITE 5.558A					
	MOBILE 5.558	MOBILE 5.558				
	SPACE RESEARCH (passive) 5.547	SPACE RESEARCH (passive) 5.547 EU21 5.558A				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
57 - 58.2	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED	Fixed Links	National Legislation: S.I. 370 of 2009	ERC/REC 12-09	See ComReg documents 09/89 and 09/89A
	INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A				
	MOBILE 5.558	MOBILE 5.558				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
5.547	5.547					
58.2 - 59	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED	Fixed Links	National Legislation: S.I. 370 of 2009	ERC/REC 12-09	See ComReg documents 09/89 and 09/89A
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	MOBILE					
		RADIO ASTRONOMY				
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
5.547 5.556	5.547 EU6 5.556 EU19					

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
59 - 59.3	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED				
	INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A				
	MOBILE 5.558	MOBILE 5.558				
	RADIOLOCATION 5.559	RADIOLOCATION 5.559	Radiolocation			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
		EU2 EU27				
59.3 - 64	FIXED	FIXED (59.3 - 62 GHz)				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE 5.558				
	RADIOLOCATION 5.559	RADIOLOCATION 5.559				
				Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2010/368/EU	ERC/REC 70-03 ECC/DEC(02)01
	5.138	5.138 EU2 EU27				
64 - 65	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.547 5.556	5.547 5.556				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
65 - 66	EARTH EXPLORATION – SATELLITE	EARTH EXPLORATION – SATELLITE				
	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	SPACE RESEARCH	SPACE RESEARCH				
	5.547	5.547				
66 - 71	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.553 5.558	MOBILE 5.553 5.558				
	MOBILE-SATELLITE	MOBILE-SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION–SATELLITE	RADIONAVIGATION–SATELLITE				
	5.554	5.554				
71 - 74	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009		Fixed Point-to-Point Radio Links (71 – 76 GHz / 81 – 86 GHz)  See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE	MOBILE				
	MOBILE–SATELLITE (S/E)	MOBILE–SATELLITE (S/E)				
		EU27				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
74 - 75.5	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Radio Links  See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE	MOBILE				
	BROADCASTING	BROADCASTING				
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE				
	Space Research (S/E)	Space Research (S/E)				
	5.561	5.561		Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
75.5 - 76	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Radio Links  See ComReg documents 09/89 and 09/89A
	FIXED SATELLITE (S/E)	FIXED SATELLITE (S/E)				
	BROADCASTING	BROADCASTING				
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE				
	MOBILE					
	Space Research (S/E)					
		Amateur Amateur-satellite				
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R



# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
	5.561	5.561 EU2 EU35				
76 - 77.5	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-Satellite	Amateur-Satellite				
	Space Research (S/E)	Space Research (S/E)				
				Short Range Devices Automotive Short Range Radar (77-81 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2004/545/EC	ECC/DEC(04)03 ECC/DEC(02)01 ERC/REC 70-03
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.149	5.149 EU2				
77.5 - 78	AMATEUR	AMATEUR				
	AMATEUR-SATELLITE	AMATEUR-SATELLITE				
	Radio Astronomy					
	Space Research (S/E)	Space Research (S/E)				
				Short Range Devices Automotive Short Range Radar (77-81 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2004/545/EC	ECC/DEC(04)03
	5.149	5.149				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
78 - 79	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-Satellite	Amateur-Satellite				
	Radio Astronomy	Radio Astronomy				
	Space Research (S/E)	Space Research (S/E)				
				Short Range Devices Automotive Short Range Radar (77-81 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2004/545/EC	ECC/DEC(04)03
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.149 5.560	5.149 EU2 5.560				
79 - 81	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-satellite (S/E)	Amateur-satellite (S/E)				
	Space Research (S/E)					
				Short Range Devices Automotive Short Range Radar (77-81 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2004/545/EC	ECC/DEC(04)03
	5.149	5.149 EU2				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
81 - 84	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Radio Links  See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	Space Research (S/E)	Space Research (S/E)		Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03  See ComReg document 02/71R
5.149 5.561A	5.149 5.561A	5.149 EU27 5.561A				
84 - 86	FIXED	FIXED	Fixed Links (Infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Radio Links  See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (E/s)	FIXED-SATELLITE (E/S)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03  See ComReg document 02/71R
5.149	5.149	5.149				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
86 - 92	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
92 - 94	FIXED	FIXED				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	MOBILE	MOBILE				
	RADIOLOCATION 5.149	RADIOLOCATION 5.149 EU2				
94 - 94.1	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	Radio Astronomy 5.562 5.562A	Radio Astronomy 5.562 EU2 5.562A				
94.1 - 95	FIXED	FIXED				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	MOBILE	MOBILE				
	RADIOLOCATION 5.149	RADIOLOCATION 5.149 EU2				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
95 - 100	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION – SATELLITE	RADIONAVIGATION – SATELLITE				
	5.149 5.554	5.149 EU2 5.554				
100 - 102	EARTH EXPLORATION–SATELLITE (passive)	EARTH EXPLORATION–SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
		5.340 5.341	5.340 5.341			
102 - 105	FIXED	FIXED				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	MOBILE	MOBILE				
		5.149 5.341	5.149 5.341			
105 - 109.5	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B				
		5.149 5.341	5.149 5.341			

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
109.5 - 111.8	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341	5.340 5.341				
111.8 - 114.25	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B				
	5.149 5.341	5.149 5.341				
114.25 - 116	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341	5.340 5.341				
116 - 119.98	EARTH EXPLORATION – SATELLITE (passive)	EARTH EXPLORATION – SATELLITE (passive)				
	INTER SATELLITE 5.562C	INTER SATELLITE 5.562C				
	SPACE RESEARCH (passive)					
	5.341	5.341				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
119.98 - 120.02	EARTH EXPLORATION – SATELLITE (passive)	EARTH EXPLORATION – SATELLITE (passive)				
	INTER-SATELLITE 5.562C	INTER-SATELLITE 5.562C				
	SPACE RESEARCH (passive)					
	5.138 5.341	5.341				
120.02 - 122.25	EARTH EXPLORATION–SATELLITE (passive)	EARTH EXPLORATION–SATELLITE (passive)				
	INTER–SATELLITE 5.562C	INTER–SATELLITE 5.562C				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
			ISM (122-123 GHz)			
			Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R
	5.138 5.341	5.138				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
122.25 - 123	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE 5.558				
	Amateur	Amateur				
		Amateur-satellite				
				ISM (122-123 GHz)		
				Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
	5.138	5.138				
123 - 126	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE-SATELLITE (S/E)	MOBILE-SATELLITE (S/E)				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	Radio Astronomy 5.562C	Radio Astronomy				
	5.149 5.554	5.149 5.554				
126 - 130	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE-SATELLITE (S/E)	MOBILE-SATELLITE (S/E)				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	Radio Astronomy 5.562C	Radio Astronomy				
	5.149 5.554	5.149 5.554				



# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
130 - 134	EARTH EXPLORATION-SATELLITE (active) 5.562E	EARTH EXPLORATION-SATELLITE (active) 5.562E				
	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE 5.558				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.562A	5.149 5.562A				
134 - 136	AMATEUR	AMATEUR				
	AMATEUR-SATELLITE	AMATEUR-SATELLITE				
	Radio astronomy	Radio astronomy				
136 - 141	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-satellite	Amateur-satellite				
	5.149	5.149				
141 - 148.5	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	5.149	5.149				
148.5 - 151.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
151.5 - 155.5	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	5.149	5.149				
155.5 - 158.5	EARTH EXPLORATION-SATELLITE (passive) 5.562F	EARTH EXPLORATION-SATELLITE (passive) 5.562F				
	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B				
	5.149 5.562G	5.149 5.562G				
158.5 - 164	FIXED	FIXED				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (S/E)	MOBILE-SATELLITE (S/E)				
164 - 167	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
167 - 168	FIXED	FIXED				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558 5.149	MOBILE 5.558				
168 - 170	FIXED	FIXED				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558 5.149	MOBILE 5.558 5.149				
170 - 174.5	FIXED	FIXED				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558 5.149	MOBILE 5.558 5.149				
174.5 - 174.8	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE 5.558				
174.8 - 182	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	INTER-SATELLITE 5.562H	INTER-SATELLITE 5.562H				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
182 - 185	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
185 - 190	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	INTER-SATELLITE 5.562H	INTER-SATELLITE 5.562H				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
190 - 191.8	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
191.8 - 200	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE 5.558				
	MOBILE-SATELLITE	MOBILE-SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	5.149 5.341 5.554	5.149 5.341 5.554				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
200 - 202	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341 5.563A	5.340 5.341 5.563A				
202 - 209	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341 5.563A	5.340 5.341 5.563A				
209 - 217	FIXED	FIXED				
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
217 - 226	5.149 5.341	5.149 5.341				
	FIXED	FIXED				
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
226 - 231.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340	5.340				
231.5 - 232	FIXED	FIXED				
	MOBILE	MOBILE				
	Radiolocation	Radiolocation				
232 - 235	FIXED	FIXED				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE	MOBILE				
	Radiolocation	Radiolocation				
235 - 238	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.563A 5.563B	5.563A 5.563B				
238 - 240	FIXED	FIXED				
	FIXED-SATELLITE (S/E)	FIXED-SATELLITE (S/E)				
	MOBILE	MOBILE				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
240 - 241	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIOLOCATION	RADIOLOCATION				
241 - 248	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-Satellite	Amateur-Satellite				
				ISM (244-246 GHz) Short Range Devices:	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
5.138 5.149	5.138 5.149					
248 - 250	AMATEUR	AMATEUR				
	AMATEUR-SATELLITE	AMATEUR-SATELLITE				
	Radio Astronomy	Radio Astronomy				
	5.149	5.149				
250 - 252	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.340 5.563A	5.340 5.563A				

# 10 GHz to 1000 GHz

Frequency Band (GHz)	ITU Allocation and Footnotes applicable to Ireland	European Common Allocation	National Usage	National and European Legislation	Relevant CEPT Decisions and Recommendations	Notes
252 - 265	FIXED	FIXED				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (E/S)	MOBILE-SATELLITE (E/S)				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.554	5.149 5.554				
265 - 275	FIXED	FIXED				
	FIXED-SATELLITE (E/S)	FIXED-SATELLITE (E/S)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.563A	5.149 5.563A				
275 - 1000	(Not Allocated)	(Not Allocated)				
	5.565	5.565				



## ANNEX 1

### RELEVANT FOOTNOTES FROM RADIO REGULATIONS.

Reference is made in the Table of allocations to the following footnotes. These footnotes are taken from Article 5 of the Radio Regulations, as amended at WRC-07. Additional information can be obtained from the ITU (see Annex 5).

- 5.43** 1) Where it is indicated in these Regulations that a service or stations in a service may operate in a specific frequency band subject to not causing harmful interference to another service or to another station in the same service, this means also that the service which is subject to not causing harmful interference cannot claim protection from harmful interference caused by the other service or other station in the same service. (WRC-2000)
- 5.43A** 1 *bis*) Where it is indicated in these Regulations that a service or stations in a service may operate in a specific frequency band subject to not claiming protection from another service or from another station in the same service, this means also that the service which is subject to not claiming protection shall not cause harmful interference to the other service or other station in the same service. (WRC-2000)
- 5.53** Administrations authorizing the use of frequencies below 9 kHz shall ensure that no harmful interference is caused thereby to the services to which the bands above 9 kHz are allocated.
- 5.54** 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.
- 5.56** 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, the Russian Federation, Georgia, Kazakhstan, Mongolia, Kyrgyzstan, Slovakia, Tajikistan and Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-07)
- 5.57** The use of the bands 14-19.95 kHz, 20.05-70 kHz and 70-90 kHz (72-84 kHz and 86-90 kHz in Region 1) by the maritime mobile service is limited to coast radiotelegraph stations (A1A and F1B only).
- Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.
- 5.60** In the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.
- 5.61** In Region 2, the establishment and operation of stations in the maritime radionavigation service in the bands 70-90 kHz and 110-130 kHz shall be subject to agreement obtained under No. **9.21** with administrations whose services, operating in accordance with the Table, may be affected. However, stations of the fixed, maritime mobile and radiolocation services shall not cause harmful interference to stations in the maritime radionavigation service established under such agreements.
- 5.62** Administrations which operate stations in the radionavigation service in the band 90-110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.
- 5.64** Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized for stations of the fixed service in the bands allocated to this service between 90 kHz and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile service in the bands allocated to this service between 110 kHz and 160 kHz (148.5 kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorized in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.
- 5.72** Norwegian stations of the fixed service situated in northern areas (north of 60° N) subject to auroral disturbances are allowed to continue operation on four frequencies in the bands 283.5-490 kHz and 510-526.5 kHz.
- 5.73** The band 285-325 kHz (283.5-325 kHz in Region 1) in the maritime radionavigation service may be used to transmit supplementary navigational information using narrow-band techniques, on condition that no harmful interference is caused to radiobeacon stations operating in the radionavigation service. (WRC-97)
- 5.74** *Additional Allocation:* in Region 1, the frequency band 285.3-285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.

- 5.76** The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 405-415 kHz is allocated shall not cause harmful interference to radio direction-finding in the band 406.5-413.5 kHz.
- 5.79** The use of the bands 415-495 kHz and 505-526.5 kHz (505-510 kHz in Region 2) by the maritime mobile service is limited to radiotelegraphy.
- 5.79A** When establishing coast stations in the NAVTEX service on the frequencies 490 kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to coordinate the operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution **339 (Rev.WRC-07)**).
- 5.82** In the maritime mobile service, the frequency 490 kHz is to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrowband direct-printing telegraphy. The conditions for use of the frequency 490 kHz are prescribed in Articles **31** and **52**. In using the band 415-495 kHz for the aeronautical radionavigation service, administrations are requested to ensure that no harmful interference is caused to the frequency 490 kHz. (WRC-07)
- 5.82A** The use of the band 495-505 kHz is limited to radiotelegraphy. (WRC-07)
- 5.82B** Administrations authorizing the use of frequencies in the band 495-505 kHz by services other than the maritime mobile service shall ensure that no harmful interference is caused to the maritime mobile service in this band or to the services having allocations in the adjacent bands, noting in particular the conditions of use of the frequencies 490 kHz and 518 kHz, as prescribed in Articles **31** and **52**. (WRC-07)
- 5.84** The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles **31** and **52**. (WRC-07)
- 5.90** In the band 1 605-1 705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.
- 5.92** Some countries of Region 1 use radiodetermination systems in the bands 1 606.5-1 625 kHz, 1 635-1 800 kHz, 1 850-2 160 kHz, 2 194-2 300 kHz, 2 502-2 850 kHz and 3 500-3 800 kHz, subject to agreement obtained under No. **9.21**. The radiated mean power of these stations shall not exceed 50 W.
- 5.96** In Germany, Armenia, Austria, Azerbaijan, Belarus, Denmark, Estonia, the Russian Federation, Finland, Georgia, Hungary, Ireland, Iceland, Israel, Kazakhstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the United Kingdom, Sweden, Switzerland, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the bands 1 715-1 800 kHz and 1 850-2 000 kHz. However, when allocating the bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W. (WRC-03)
- 5.100** In Region 1, the authorization to use the band 1 810-1 830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. **5.98** and **5.99** to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. **5.98** and **5.99**.
- 5.103** In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1 850- 2 045 kHz, 2 194-2 498 kHz, 2 502-2 625 kHz and 2 650-2 850 kHz, administrations should bear in mind the special requirements of the maritime mobile service
- 5.104** In Region 1, the use of the band 2 025-2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
- 5.108** The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5-2 190.5 kHz are prescribed in Articles **31** and **52**. (WRC-07)
- 5.109** The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are 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, 8364 kHz and the frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The

conditions for the use of the frequencies are prescribed in Article 31. The same applies to the frequencies 10 003 kHz, 14 993 kHz and 19993 kHz, but in each of these cases emissions must be confined in a band of  $\pm 3$  kHz about the frequency.  
(WRC-07)

**5.113** For the conditions for the use of the bands 2 300-2 495 kHz (2 498 kHz in Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the broadcasting service, see Nos. **5.16 to 5.20, 5.21 and 23.3 to 23.10.**

**5.115** The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article 31, by stations of the maritime mobile service engaged in coordinated search and rescue operations. (WRC-07)

**5.116** Administrations are urged to authorize the use of the band 3 155-3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3400 kHz to suit local needs  
  
It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.

**5.127** The use of the band 4 000-4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. **5.220** and Appendix 17).

**5.128** Frequencies in the bands 4 063-4 123 kHz and 4 130-4 438 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W, on condition that harmful interference is not caused to the maritime mobile service. In addition, in Afghanistan, Argentina, Armenia, Azerbaijan, Belarus,

Botswana, Burkina Faso, the Central African Rep., China, the Russian Federation, Georgia, India, Kazakhstan, Mali, Niger, Kyrgyzstan, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4 063-4 123 kHz, 4 130-4 133 kHz and 4 408-4 438 kHz, stations in the fixed service, with a mean power not exceeding 1 kW, can be operated on condition that they are situated at least 600 km from the coast and that harmful interference is not caused to the maritime mobile service. (WRC-07)

**5.130** The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are prescribed in Articles 31 and 52. (WRC-07)

**5.131** The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques. (WRC-97)

**5.132** The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the international frequencies for the transmission of maritime safety information (MSI) (see Appendix 17).

**5.134** The use of the bands 5 900-5 950 kHz, 7 300-7 350 kHz, 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050- 12 100 kHz, 13 570-13 600 kHz, 13 800-13 870 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz by the broadcasting service is subject to the application of the procedure of Article 12. Administrations are encouraged to use these bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution 517 (Rev.WRC-07). (WRC-07)

**5.136** *Additional allocation:* frequencies in the band 5 900-5 950 kHz may be used by stations in the following services, communicating only within the boundary of the country in which they are located: fixed service (in all three Regions),

land mobile service (in Region 1), mobile except aeronautical mobile (R) service (in Regions 2 and 3), on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.  
(WRC-07)

**5.137** On condition that harmful interference is not caused to the maritime mobile 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:

6765-6 795 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. <b>5.280</b> ,
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 authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

**5.138A** Until 29 March 2009, the band 6 765-7 000 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. After this date, this band is allocated to the fixed and the mobile except aeronautical mobile (R) services on a primary basis. (WRC-03)

**5.141C** In Regions 1 and 3, the band 7 100-7 200 kHz is allocated to the broadcasting service until 29 March 2009 on a primary basis. (WRC-03)

**5.142** Until 29 March 2009, the use of the band 7 100-7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. After 29 March 2009 the use of the band 7 200-7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. (WRC-03)

**5.143** *Additional allocation:* frequencies in the band 7 300-7 350 kHz may be used by stations in the fixed service and in the land mobile service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)

**5.143B** In Region 1, the band 7 350-7 450 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, on condition that harmful interference is not caused to the broadcasting service, frequencies in the band 7 350-7 450 kHz may be used by stations in the fixed and land mobile services communicating only within the

boundary of the country in which they are located, each station using a total radiated power that shall not exceed 24 dBW. (WRC-03)

**5.143E** Until 29 March 2009, the band 7 450-8 100 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. (WRC-03)

**5.145** The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles **31** and **52**. (WRC-07)

**5.146** *Additional allocation:* frequencies in the bands 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)

**5.147** On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 775-9 900 kHz, 11 650-11 700 kHz and 11 975-12 050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

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

13 360-13 410 kHz,	31.5-31.8 GHz in Regions 1 and 3,
25 550-25 670 kHz,	36.43-36.5 GHz,
37.5-38.25 MHz,	42.5-43.5 GHz,
73-74.6 MHz in Regions 1 and 3,	48.94-49.04 GHz,
150.05-153 MHz in Region 1,	76-86 GHz,
322-328.6 MHz,	92-94 GHz,
406.1-410 MHz,	94.1-100 GHz,
608-614 MHz in Regions 1 and 3,	102-109.5 GHz,
1 330-1 400 MHz,	111.8-114.25 GHz,
1 610.6-1 613.8 MHz,	128.33-128.59 GHz,
1 660-1 670 MHz,	129.23-129.49 GHz,
1 718.8-1 722.2 MHz,	130-134 GHz,
2 655-2 690 MHz,	136-148.5 GHz,
3 260-3 267 MHz,	151.5-158.5 GHz,
3 332-3 339 MHz,	168.59-168.93 GHz,
3 345.8-3 352.5 MHz,	171.11-171.45 GHz,
4 825-4 835 MHz,	172.31-172.65 GHz,
4 950-4 990 MHz,	173.52-173.85 GHz,
4 990-5 000 MHz,	195.75-196.15 GHz,
6 650-6 675.2 MHz,	209-226 GHz,
10.6-10.68 GHz,	241-250 GHz,
14.47-14.5 GHz,	252-275 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,	

are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service

from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. 4.5 and 4.6 and Article 29). (WRC-07)

- 5.150** The following bands:  
 13 553-13 567 kHz (centre frequency 13 560 kHz),  
 26 957-27 283 kHz (centre frequency 27 120 kHz),  
 40.66-40.70 MHz (centre frequency 40.68 MHz),  
 902-928 MHz in Region 2 (centre frequency 915 MHz),  
 2400-2 500 MHz (centre frequency 2 450 MHz),  
 5725-5 875 MHz (centre frequency 5 800 MHz), &  
 24-24.25 GHz (centre frequency 24.125 GHz)
- are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. 15.13.
- 5.151** *Additional allocation:* frequencies in the bands 13 570-13600 kHz and 13 800-13 870 kHz may be used by stations in the fixed service and in the mobile except aeronautical mobile (R) service, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.155B** 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, the Russian Federation, Finland, France, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Luxembourg, Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, Slovakia, the Czech Rep., the United Kingdom, Serbia, Slovenia, Sweden and Switzerland the band 46-68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97). (WRC-07)
- 5.164** *Additional allocation:* in Albania, Germany, Austria, Belgium, Bosnia and Herzegovina, Botswana, Bulgaria, Côte d'Ivoire, Denmark, Spain, Estonia, Finland, France, Gabon, Greece, Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jordan, Lebanon, Liechtenstein, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Montenegro, Nigeria, Norway, the Netherlands, Poland, Syrian Arab Republic, Romania, the United Kingdom, Serbia, Slovenia, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia and Turkey, the band 47-68 MHz, in South Africa the band 47-50 MHz, in the Czech Rep. the band 66-68 MHz, and in Latvia and Lithuania the band 48.5-56.5 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations of countries other than those mentioned in connection with the band. (WRC-07)

- 5.180** The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guard band to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons.
- Every effort should be made to improve further the characteristics of airborne receivers and to limit the power of transmitting stations close to the limits 74.8 MHz and 75.2 MHz.
- 5.197A** *Additional allocation:* the band 108-117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 413 (Rev.WRC-07). The use of the band 108-112 MHz by the aeronautical mobile (R) service shall be limited to systems composed of ground-based transmitters and associated receivers that provide navigational information in support of air navigation functions in accordance with recognized international aeronautical standards. (WRC-07)
- 5.200** In the band 117.975-137 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article 31 for distress and safety purposes with stations of the aeronautical mobile service. (WRC-07)
- 5.208** The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-97)
- 5.208A** In making assignments to space stations in the mobile-satellite service in the bands 137-138 MHz, 387-390 MHz and 400.15-401 MHz, administrations shall take all

practicable steps to protect the radio astronomy service in the bands 150.05-153 MHz, 322-328.6 MHz, 406.1-410 MHz and 608-614 MHz from harmful interference from unwanted emissions. The threshold levels of interference detrimental to the radio astronomy service are shown in the relevant ITU-R Recommendation. (WRC-07)

**5.208B** In the bands:

137-138 MHz,  
387-390 MHz,  
400.15-401 MHz,  
1452-1 492 MHz,  
1525-1 610 MHz,  
1613.8-1 626.5 MHz,  
2655-2 690 MHz,  
21.4-22 GHz,

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

**5.209** The use of the bands 137-138 MHz, 148-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 454-456 MHz and 459-460 MHz by the mobile-satellite service is limited to non-geostationary-satellite systems. (WRC-97)

**5.211** *Additional allocation:* in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece, Ireland, Israel, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lebanon, Liechtenstein, Luxembourg, Mali, Malta, Montenegro, Norway, the Netherlands, Qatar, the United Kingdom, Serbia, Slovenia, Somalia, Sweden, Switzerland, Tanzania, Tunisia and Turkey, the band 138-144 MHz is also allocated to the maritime mobile and land mobile services on a primary basis. (WRC-07)

**5.218** *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.

**5.219** The use of the band 148-149.9 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. The mobile-satellite service shall not constrain the development and use of the fixed, mobile and space operation services in the band 148-149.9 MHz.

**5.220** The use of the bands 149.9-150.05 MHz and 399.9-400.05 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. The mobile-satellite service shall not constrain the development and use of the radionavigation-satellite service in the bands 149.9-150.05 MHz and 399.9-400.05 MHz. (WRC-97)

**5.221** Stations of the mobile-satellite service in the band 148-149.9 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and Herzegovina, Botswana, Brunei, Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Ethiopia, the Russian Federation, Finland, France, Gabon, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, the Libyan Arab Jamahiriya, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malaysia, (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Ethiopia, the Russian Federation, Finland, France, Gabon, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, the Libyan Arab Jamahiriya, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon,

Liechtenstein, Lithuania, Luxembourg, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia, Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Sri Lanka, South Africa, Sweden, Switzerland, Swaziland, Tanzania, Chad, Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-07)

**5.222** Emissions of the radionavigation-satellite service in the bands 149.9-150.05 MHz and 399.9-400.05 MHz may also be used by receiving earth stations of the space research service.

**5.223** Recognizing 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 authorize such use in application of No. **4.4**.

**5.224A** The use of the bands 149.9-150.05 MHz and 399.9-400.05 MHz by the mobile-satellite service (Earth-to-space) is limited to the land mobile-satellite service (Earth-to-space) until 1 January 2015. (WRC-97)

**5.224B** The allocation of the bands 149.9-150.05 MHz and 399.9-400.05 MHz to the radionavigation-satellite service shall be effective until 1 January 2015. (WRC-97)

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



The frequency 156.8 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service. The conditions for the use of this frequency and the band 156.7625-156.8375 MHz are contained in Article 31 and Appendix 18.

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

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

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

**5.227** *Additional allocation:* the bands 156.4875-156.5125 MHz and 156.5375-156.5625 MHz are also allocated to the fixed and land mobile services on a primary basis. The use of these bands by the fixed and land mobile services shall not cause harmful interference to nor claim protection from the maritime mobile VHF radiocommunication service. (WRC-07)

**5.227A** *Additional allocation:* the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz are also allocated to the mobile-satellite service (Earth-to-space) on a secondary basis for the reception of automatic identification system (AIS) emissions from stations operating in the maritime-mobile service (see Appendix 18).(WRC-07)

**5.235** *Additional allocation:* in Germany, Austria, Belgium, Denmark, Spain, Finland, France, Israel, Italy, Liechtenstein,

Malta, Monaco, Norway, the Netherlands, the United Kingdom, Sweden and Switzerland, the band 174-223 MHz is also allocated to the land mobile service on a primary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, broadcasting stations, existing or planned, in countries other than those listed in this footnote.

**5.254** The bands 235-322 MHz and 335.4-399.9 MHz may be used by the mobile-satellite service, subject to agreement obtained under No. 9.21, on condition that stations in this service do not cause harmful interference to those of other services operating or planned to be operated in accordance with the Table of Frequency Allocations except for the additional allocation made in footnote No. 5.256A. (WRC-03)

**5.255** The bands 312-315 MHz (Earth-to-space) and 387-390 MHz (space-to-Earth) in the mobile-satellite service may also be used by non-geostationary-satellite systems. Such use is subject to coordination under No. 9.11A.

**5.256** The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes. (WRC-07)

**5.256** *A Additional allocation:* in China, the Russian Federation, Kazakhstan and Ukraine, the band 258-261 MHz is also allocated to the space research service (Earth-to-space) and space operation service (Earth-to-space) on a primary basis. Stations in the space research service (Earth-to-space) and space operation service (Earth-to-space) shall not cause harmful interference to, nor claim protection from, nor constrain the use and development of the mobile service systems and mobile-satellite service systems operating in the band. Stations in space research service (Earth-to-space) and space operation service (Earth-to-space) shall not constrain the future development of fixed service systems of other countries. (WRC-03)

**5.257** The band 267-272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. 9.21.

**5.258** The use of the band 328.6-335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).

**5.260** Recognizing 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 authorize 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.

**5.263** The band 400.15-401 MHz is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.

**5.264** The use of the band 400.15-401 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. The power flux-density limit indicated in Annex 1 of Appendix 5 shall apply until such time as a competent world radiocommunication conference revises it.

**5.266** The use of the band 406-406.1 MHz by the mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons (see also Article 31). (WRC-07)

**5.267** Any emission capable of causing harmful interference to the authorized 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  $-153 \text{ dB(W/m}^2\text{)}$  for  $0^\circ \leq \delta \leq 5^\circ$ ,  $-153 + 0.077 (\delta - 5) \text{ dB(W/m}^2\text{)}$  for  $5^\circ \leq \delta \leq 70^\circ$  and  $-148 \text{ dB(W/m}^2\text{)}$  for  $70^\circ \leq \delta \leq 90^\circ$ , where  $\delta$  is the angle of arrival of the radio-frequency wave and the reference bandwidth is 4 kHz. No. 4.10 does not apply to extra-vehicular activities. In this frequency band the space research (space-to-space) service shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. (WRC-97)
- 5.279A** The use of this band by sensors in the Earth exploration-satellite service (active) shall be in accordance with Recommendation ITU-R RS.1260-1. Additionally, the Earth exploration-satellite service (active) in the band 432-438 MHz shall not cause harmful interference to the aeronautical radionavigation service in China. The provisions of this footnote in no way diminish the obligation of the Earth exploration-satellite service (active) to operate as a secondary service in accordance with Nos. **5.29** and **5.30**. (WRC-03)
- 5.282** 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 authorizing such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. **25.11**. The use of the bands 1 260-1 270 MHz and 5 650-5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
- 5.286** The band 449.75-450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to 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 No. **9.11A**. (WRC-97)
- 5.286AA** The band 450-470 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). See Resolution **224 (Rev.WRC-07)**. This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-07)
- 5.286B** The use of the band 454-455 MHz in the countries listed in No. **5.286D**, 455-456 MHz and 459-460 MHz in Region 2, and 454-456 MHz and 459-460 MHz in the countries listed in No. **5.286E**, by stations in the mobile-satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency allocations. (WRC-97)
- 5.286C** 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 constrain the development and use of the fixed and mobile services operating in accordance with the Table of Frequency Allocations. (WRC-97)
- 5.287** In the maritime mobile service, the frequencies 457.525 MHz, 457.550 MHz, 457.575 MHz, 467.525 MHz, 467.550 MHz and 467.575 MHz may be used by on-board communication stations. Where needed, equipment designed for 12.5 kHz channel spacing using also the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may be introduced for on-board communications. The use of these frequencies in territorial waters may be subject to the national regulations of the administration concerned. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-2. (WRC-07)
- 5.289** Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460-470 MHz and 1 690-1 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
- 5.291A** *Additional allocation:* in Germany, Austria, Denmark, Estonia, Finland, Liechtenstein, Norway, Netherlands, the Czech Rep. and Switzerland, the band 470-494 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution **217 (WRC-97)**. (WRC-97)
- 5.296** *Additional allocation:* in Germany, Saudi Arabia, Austria, Belgium, Côte d'Ivoire, Denmark, Egypt, Spain, Finland, France, Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jordan, Lithuania, Malta, Morocco, Monaco, Norway, Oman, the Netherlands, Portugal, the Syrian Arab Republic, the United Kingdom, Sweden, Switzerland, Swaziland and Tunisia, the band 470-790 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-07)



- 5.302** *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.
- 5.311A** For the frequency band 620-790 MHz, see also Resolution **549 (WRC-07)**. (WRC-07)
- 5.312** *Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, the Russian Federation, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., Romania, Tajikistan, Turkmenistan and Ukraine, the band 645-862 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-03)
- 5.316B** In Region 1, the allocation to the mobile, except aeronautical mobile, service on a primary basis in the frequency band 790-862 MHz shall come into effect from 17 June 2015 and shall be subject to agreement obtained under No. **9.21** with respect to the aeronautical radionavigation service in countries mentioned in No. **5.312**. For countries party to the GE06 Agreement, the use of stations of the mobile service is also subject to the successful application of the procedures of that Agreement. Resolutions **224 (Rev.WRC-07)** and **749 (WRC-07)** shall apply. (WRC-07)
- 5.317A** Those parts of the band 698-960 MHz in Region 2 and the band 790-960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). See Resolutions **224 (Rev.WRC-07)** and **749 (WRC-07)**. This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-07)
- 5.322** In Region 1, in the band 862-960 MHz, stations of the broadcasting service shall be operated only in the African Broadcasting Area (see Nos. **5.10** to **5.13**) excluding Algeria, Egypt, Spain, the Libyan Arab Jamahiriya, Morocco, Namibia, Nigeria, South Africa, Tanzania, Zimbabwe and Zambia, subject to agreement obtained under No. **9.21**. (WRC-2000)
- 5.327A** The use of the band 960-1 164 MHz by the aeronautical mobile (R) service is limited to systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **417 (WRC-07)**. (WRC-07)
- 5.328** The use of the band 960-1 215 MHz by the aeronautical radionavigation service is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated ground-based facilities. (WRC-2000)
- 5.328A** Stations in the radionavigation-satellite service in the band 1 164-1 215 MHz shall operate in accordance with the provisions of Resolution **609 (Rev.WRC-07)** and shall not claim protection from stations in the aeronautical radionavigation service in the band 960-1 215 MHz. No. **5.43A** does not apply. The provisions of No. **21.18** shall apply. (WRC-07)
- 5.328B** The use of the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz by systems and networks in the radionavigation-satellite service for which complete coordination or notification information, as appropriate, is received by the Radiocommunication Bureau after 1 January 2005 is subject to the application of the provisions of Nos. **9.12**, **9.12A** and **9.13**. Resolution **610 (WRC-03)** shall also apply; however, in the case of radionavigation-satellite service (space-to-space) networks and systems, Resolution **610 (WRC-03)** shall only apply to transmitting space stations. In accordance with No. **5.329A**, for systems and networks in the radionavigation satellite service (space-to-space) in the bands 1 215-1 300 MHz and 1 559-1 610 MHz, the provisions of Nos. **9.7**, **9.12**, **9.12A** and **9.13** shall only apply with respect to other systems and networks in the radionavigation-satellite service (space-to-space). (WRC-07)
- 5.329** Use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to, and no protection is claimed from, the radionavigation service authorized under No. **5.331**. Furthermore, the use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to the radiolocation service. No. **5.43** shall not apply in respect of the radiolocation service. Resolution **608 (WRC-03)** shall apply. (WRC-03)
- 5.329A** Use of systems in the radionavigation-satellite service (space-to-space) operating in the bands 1 215-1 300 MHz and 1 559-1 610 MHz is not intended to provide safety service applications, and shall not impose any additional constraints on radionavigation-satellite service (space-to-Earth) systems or on other services operating in accordance with the Table of Frequency Allocations. (WRC-07)
- 5.331** *Additional allocation:* in Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Egypt, the United

- Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece, Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Turkey, Venezuela and Viet Nam, the band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the band 1 240-1 300 MHz is also allocated to the radionavigation service, and use of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-07)
- 5.332** In the band 1 215-1 260 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service, the radionavigation-satellite service and other services allocated on a primary basis. (WRC-2000)
- 5.335A** In the band 1 260-1 300 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service and other services allocated by footnotes on a primary basis. (WRC-2000)
- 5.337** The use of the bands 1 300-1 350 MHz, 2 700-2 900 MHz and 9 000-9 200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
- 5.337A** The use of the band 1 300-1 350 MHz by earth stations in the radionavigation-satellite service and by stations in the radiolocation service shall not cause harmful interference to, nor constrain the operation and development of, the aeronautical-radionavigation service. (WRC-2000)
- 5.338A** In the bands 1 350-1 400 MHz, 1 427-1 452 MHz, 22.55-23.55 GHz, 30-31.3 GHz, 49.7-50.2 GHz, 50.4-50.9 GHz and 51.4-52.6 GHz, Resolution **750 (WRC-07)** applies. (WRC-07)
- 5.339** The bands 1 370-1 400 MHz, 2 640-2 655 MHz, 4 950-4 990 MHz and 15.20-15.35 GHz are also allocated to the space research (passive) and Earth exploration-satellite (passive) services on a secondary basis.
- 5.340** All emissions are prohibited in the following bands:
- 1 400-1 427 MHz,  
2 690-2 700 MHz, except those provided for by No. **5.422**,  
10.68-10.7 GHz, except those provided for by No. **5.483**,  
15.35-15.4 GHz, except those provided for by No. **5.511**,  
23.6-24 GHz,  
31.3-31.5 GHz,  
31.5-31.8 GHz, in Region 2,  
48.94-49.04 GHz, from airborne stations  
50.2-50.4 GHz<sup>1</sup>,  
52.6-54.25 GHz,  
86-92 GHz,  
100-102 GHz,  
109.5-111.8 GHz,  
114.25-116 GHz,  
148.5-151.5 GHz,  
164-167 GHz,  
182-185 GHz,
- 190-191.8 GHz,  
200-209 GHz,  
226-231.5 GHz,  
250-252 GHz. (WRC-03)
- 15.340.1** The allocation to the Earth exploration-satellite service (passive) and the space research service (passive) in the band 50.2-50.4 GHz should not impose undue constraints on the use of the adjacent bands by the primary allocated services in those bands. (WRC-97)
- 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.
- 5.345** Use of the band 1 452-1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution **528 (WARC-92)**
- 5.348** The use of the band 1 518-1 525 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from the stations in the fixed service. No. **5.43A** does not apply. (WRC-03).
- 5.348A** In the band 1 518-1 525 MHz, the coordination threshold in terms of the power flux-density levels at the surface of the Earth in application of No. **9.11A** for space stations in the mobile-satellite (space-to-Earth) service, with respect to the land mobile service use for specialized mobile radios or used in conjunction with public switched telecommunication networks (PSTN) operating within the territory of Japan, shall be -150 dB(W/m<sup>2</sup>) in any 4 kHz band for all angles of arrival, instead of those given in Table 5-2 of Appendix 5. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from stations in the mobile service in the territory of Japan. No. **5.43A** does not apply. (WRC-03)

- 5.351** 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 authorized by an administration to communicate via space stations using these bands.
- 5.351A** For the use of the bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1646.5- 1 660.5 MHz, 1 668-1 675 MHz, 1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 520 MHz and 2 670-2 690 MHz by the mobile-satellite service, see Resolutions **212 (Rev.WRC-07)** and **225 (Rev.WRC-07)**. (WRC-07)
- 5.352A** In the band 1 525-1 530 MHz, stations in the mobile-satellite service, except stations in the maritime mobile-satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed service in France and French overseas communities of Region 3, Algeria, Saudi Arabia, Egypt, Guinea, India, Israel, Italy, Jordan, Kuwait, Mali, Malta, Morocco, Mauritania, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Tanzania, Viet Nam and Yemen notified prior to 1 April 1998. (WRC-97)
- 5.353A** In applying the procedures of Section II of Article **9** to the mobile-satellite service in the bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz, priority shall be given to accommodating the spectrum requirements for distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). Maritime mobile-satellite distress, urgency and safety communications shall have priority access and immediate availability over all other mobile satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, distress, urgency and safety communications of the GMDSS. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution **222 (WRC-2000)\*** shall apply.) (WRC-2000)
- 5.354** The use of the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz by the mobile-satellite services is subject to coordination under No. **9.11A**.
- 5.356** The use of the band 1 544-1 545 MHz by the mobile-satellite service (space-to-Earth) is limited to distress and safety communications (see Article **31**).
- 5.357** Transmissions in the band 1 545-1 555 MHz from terrestrial aeronautical stations directly to aircraft stations, or between aircraft stations, in the aeronautical mobile (R) service are also authorized when such transmissions are used to extend or supplement the satellite-to-aircraft links.
- 5.357 A** In applying the procedures of Section II of Article **9** to the mobile-satellite service in the bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article **44**. Aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article **44** shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article **44**. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution **222 (WRC-2000)\*** shall apply.) (WRC-2000)
- 5.364** The use of the band 1 610-1 626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodetermination-satellite service (Earth-to-space) is subject to coordination under No. **9.11A**. A mobile earth station operating in either of the services in this band shall not produce a peak e.i.r.p. density in excess of  $-15$  dB(W/4 kHz) in the part of the band used by systems operating in accordance with the provisions of No. 5.366 (to which No. 4.10 applies), unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, the mean e.i.r.p. density of a mobile earth station shall not exceed  $-3$  dB(W/4 kHz). Stations of the mobile-satellite service shall not claim protection from stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. 5.366 and stations in the fixed service operating in accordance with the provisions of No. 5.359. Administrations responsible for the coordination of mobile-satellite networks shall make all practicable efforts to ensure protection of stations operating in accordance with the provisions of No. 5.366.
- 5.365** The use of the band 1 613.8-1 626.5 MHz by the mobile satellite service (space-to-Earth) is subject to coordination under 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 stations in the fixed service operating in the countries listed in No. **5.359**. (WRC-97)
- 5.375** The use of the band 1 645.5-1 646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress and safety communications (see Article **31**).
- 5.376** Transmissions in the band 1 646.5-1 656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorized when such transmissions are used to extend or supplement the aircraft-to-satellite links.
- 5.376A** Mobile earth stations operating in the band 1 660-1 660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)
- 5.379A** Administrations are urged to give all practicable protection in the band 1 660.5-1 668.4 MHz for future research in radio astronomy, particularly by eliminating air-to-ground transmissions in the meteorological aids service in the band 1 664.4-1 668.4 MHz as soon as practicable.
- 5.379B** The use of the band 1 668-1 675 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. In the band 1 668-1 668.4 MHz, Resolution **904 (WRC-07)** shall apply. (WRC-07)
- 5.379C** In order to protect the radio astronomy service in the band 1 668-1 670 MHz, the aggregate power flux-density values produced by mobile earth stations in a network of the mobile-satellite service operating in this band shall not exceed  $-181$  dB(W/m<sup>2</sup>) in 10 MHz and  $-194$  dB(W/m<sup>2</sup>) in any 20 kHz at any radio astronomy station recorded in the Master International Frequency Register, for more than 2% of integration periods of 2 000 s. (WRC-03)
- 5.379D** For sharing of the band 1 668.4-1 675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution **744 (Rev.WRC-07)** shall apply. (WRC-07)
- 5.380A** In the band 1 670-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorological-satellite service notified before 1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobile-satellite service. (WRC-07)
- 5.384A** The bands, or portions of the bands, 1 710-1 885 MHz, 2 300-2 400 MHz and 2 500-2 690 MHz, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-07)**. This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-07)
- 5.385** *Additional allocation:* the band 1 718.8-1 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)
- 5.388** 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)**.) (WRC-2000)
- 5.388A** In Regions 1 and 3, the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz and, in Region 2, the bands 1 885-1 980 MHz and 2 110-2 160 MHz may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications-2000 (IMT-2000), in accordance with Resolution **221 (Rev.WRC-03)**. Their use by IMT-2000 applications using high altitude platform stations as base stations does not preclude the use of these bands by any station in the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-03)
- 5.389A** The use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-2000)**. (WRC-07)
- 5.389C** The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz in Region 2 by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-2000)**. (WRC-07)
- 5.389E** The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz by the mobile-satellite service in Region 2 shall not cause harmful interference to or constrain the development of the fixed and mobile services in Regions 1 and 3.

- 5.391** In making assignments to the mobile service in the bands 2 025-2 110 MHz and 2 200-2 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154, and shall take that Recommendation into account for the introduction of any other type of mobile system. (WRC-97)
- 5.392** Administrations are urged to take all practicable measures to ensure that space-to-space transmissions between two or more non-geostationary satellites, in the space research, space operations and Earth exploration satellite services in the bands 2 025-2 110 MHz and 2 200-2 290 MHz, shall not impose any constraints on Earth-to-space, space-to-Earth and other space-to-space transmissions of those services and in those bands between geostationary and non-geostationary satellites.
- 5.396** Space stations of the broadcasting-satellite service in the band 2 310-2 360 MHz operating in accordance with No. **5.393** that may affect the services to which this band is allocated in other countries shall be coordinated and notified in accordance with Resolution **33 (Rev.WRC-97)\***. Complementary terrestrial broadcasting stations shall be subject to bilateral coordination with neighbouring countries prior to their bringing into use.
- \* This Resolution was revised by WRC-03
- 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 No. **9.11A**. Administrations are urged to take all practicable steps to prevent harmful interference to the radio astronomy service from emissions in the 2 483.5-2 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 990-5 000 MHz band allocated to the radio astronomy service worldwide.
- 5.403** Subject to agreement obtained under No. **9.21**, the band 2 520-2 535 MHz may also be used for the mobile-satellite (space-to-Earth), except aeronautical mobile-satellite, service for operation limited to within national boundaries. The provisions of No. **9.11A** apply. (WRC-07)
- 5.410** The band 2 500-2 690 MHz may be used for tropospheric scatter systems in Region 1, subject to agreement obtained under No. **9.21**. Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in this band. When planning new tropospheric scatter radio-relay links in this band, all possible measures shall be taken to avoid directing the antennas of these links towards the geostationary-satellite orbit. (WRC-07)
- 5.413** 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.
- 5.415** The use of the bands 2 500-2 690 MHz in Region 2 and 2 500-2 535 MHz and 2 655-2 690 MHz in Region 3 by the fixed-satellite service is limited to national and regional systems, subject to agreement obtained under No. **9.21**, giving particular attention to the broadcasting-satellite service in Region 1. (WRC-07)
- 5.416** The use of the band 2 520-2 670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. **9.21**. The provisions of No. **9.19** shall be applied by administrations in this band in their bilateral and multilateral negotiations. (WRC-07)
- 5.417C** Use of the band 2 605-2 630 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. **5.417A**, for which complete Appendix **4** coordination information, or notification information, has been received after 4 July 2003, is subject to the application of the provisions of No. **9.12**. (WRC-03)
- 5.417D** Use of the band 2 605-2 630 MHz by geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, has been received after 4 July 2003 is subject to the application of the provisions of No. **9.13** with respect to non-geostationary-satellite systems in the broadcasting satellite service (sound), pursuant to No. **5.417A**, and No. **22.2** does not apply. (WRC-03)
- 5.418B** Use of the band 2 630-2 655 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. **5.418**, for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. **9.12**. (WRC-03)
- 5.418C** Use of the band 2 630-2 655 MHz by geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000 is subject to the application of the provisions of No. **9.13** with respect to non-geostationary-satellite systems in the broadcasting satellite service (sound), pursuant to No. **5.418** and No. **22.2** does not apply. (WRC-03)

- 5.419** When introducing systems of the mobile-satellite service in the band 2 670-2 690 MHz, administrations shall take all necessary steps to protect the satellite systems operating in this band prior to 3 March 1992. The coordination of mobile-satellite systems in the band shall be in accordance with No. **9.11A**. (WRC-07)
- 5.420** The band 2 655-2 670 MHz may also be used for the mobile-satellite (Earth-to-space), except aeronautical mobile-satellite, service for operation limited to within national boundaries, subject to agreement obtained under No. **9.21**. The coordination under No. **9.11A** applies. (WRC-07)
- 5.423** In the band 2 700-2 900 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the aeronautical radionavigation service.
- 5.424A** In the band 2 900-3 100 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the radionavigation service. (WRC-03)
- 5.425** In the band 2 900-3 100 MHz, the use of the shipborne interrogator-transponder (SIT) system shall be confined to the sub-band 2 930 -2 950 MHz.
- 5.426** The use of the band 2 900-3 100 MHz by the aeronautical radionavigation service is limited to ground based radars.
- 5.427** In the bands 2 900-3 100 MHz and 9 300-9 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service, having regard, however, to No. **4.9**.
- 5.430A** Different category of service: in Albania, Algeria, Germany, Andorra, Saudi Arabia, Austria, Azerbaijan, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Cameroon, Cyprus, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Egypt, Spain, Estonia, Finland, France and French overseas departments and communities in Region 1, Gabon, Georgia, Greece, Guinea, Hungary, Ireland, Iceland, Israel, Italy, Jordan, Kuwait, Lesotho, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Malawi, Mali, Malta, Morocco, Mauritania, Moldova, Monaco, Mongolia, Montenegro, Mozambique, Namibia, Niger, Norway, Oman, Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Senegal, Serbia, Sierra Leone, Slovenia, South Africa, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia, Turkey, Ukraine, Zambia and Zimbabwe, the band 3 400-3 600 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis subject to agreement obtained under No. 9.21 with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed  $-154.5 \text{ dB(W/(m}^2 \cdot 4 \text{ kHz))}$  for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table **21-4** of the Radio Regulations (Edition of 2004). This allocation is effective from 17 November 2010. (WRC-07)
- 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 authorized 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 authorized to use the frequency 4 202 MHz for space-to-Earth transmissions and the frequency 6 427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of  $\pm 2$  MHz of these frequencies, subject to agreement obtained under No. **9.21**.
- 5.441** The use of the bands 4 500-4 800 MHz (space-to-Earth), 6 725-7 025 MHz (Earth-to-space) by the fixed-satellite service shall be in accordance with the provisions of Appendix **30B**. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service shall be in accordance with the provisions of Appendix **30B**. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed satellite service.



Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)

- 5.442** In the bands 4 825-4 835 MHz and 4 950-4 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile, service. In Region 2 (except Brazil, Cuba, Guatemala, Paraguay, Uruguay and Venezuela), and in Australia, the band 4 825-4 835 MHz is also allocated to the aeronautical mobile service, limited to aeronautical mobile telemetry for flight testing by aircraft stations. Such use shall be in accordance with Resolution **416 (WRC-07)** and shall not cause harmful interference to the fixed service. (WRC-07)
- 5.443B** In order not to cause harmful interference to the microwave landing system operating above 5 030 MHz, the aggregate power flux-density produced at the Earth's surface in the band 5 030-5 150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the band 5 010-5 030 MHz shall not exceed – 124.5 dB(W/m<sup>2</sup>) in a 150 kHz band. In order not to cause harmful interference to the radio astronomy service in the band 4 990-5 000 MHz, radionavigation-satellite service systems operating in the band 5 010-5 030 MHz shall comply with the limits in the band 4 990-5 000 MHz defined in Resolution **741(WRC-03)**. (WRC-03)

**5.444** The band 5 030-5 150 MHz is to be used for the operation of the international standard system (microwave landing system) for precision approach and landing. In the band 5 030-5 091 MHz, the requirements of this system shall take precedence over other uses of this band. For the use of the band 5091-5 150 MHz, No. **5.444A** and Resolution **114 (Rev.WRC-03)** apply. (WRC-07)

**5.444A** *Additional allocation:* the band 5 091-5 150 MHz is also allocated to the fixed-satellite service (Earth-to-space) on a primary basis. This allocation is limited to feeder links of non-geostationary satellite systems in the mobile-satellite service and is subject to coordination under No. **9.11A**.

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

- prior to 1 January 2018, the use of the band 5 091-5 150 MHz by feeder links of non-geostationary satellite systems in the mobile-satellite service shall be made in accordance with Resolution **114 (Rev.WRC-03)**;
- after 1 January 2016, no new assignments shall be made to earth stations providing feeder links of non-geostationary mobile-satellite systems;
- after 1 January 2018, the fixed-satellite service will become secondary to the aeronautical radionavigation service. (WRC-07)

**5.444B** The use of the band 5 091-5 150 MHz by the aeronautical mobile service is limited to:

- systems operating in the aeronautical mobile (R) service and in accordance with international aeronautical standards, limited to surface applications at airports. Such use shall be in accordance with Resolution **748 (WRC-07)**;

- aeronautical telemetry transmissions from aircraft stations (see No. **1.83**) in accordance with Resolution **418 (WRC-07)**;

- aeronautical security transmissions. Such use shall be in accordance with Resolution **419 (WRC-07)**. (WRC-07)

**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/m<sup>2</sup>) in any 4 kHz band for all angles of arrival.

**5.446A** The use of the bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution **229 (WRC-03)**. (WRC-07)

**5.446B** In the band 5 150-5 250 MHz, stations in the mobile service shall not claim protection from earth stations in the fixed-satellite service. No. **5.43A** does not apply to the mobile service with respect to fixed-satellite service earth stations. (WRC-03)

**5.446C** *Additional allocation:* in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Syrian Arab Republic, Sudan and Tunisia) and in Brazil, the band 5 150-5

250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see No. 1.83), in accordance with Resolution 418 (WRC-07). These stations shall not claim protection from other stations operating in accordance with Article 5. No. 5.43A does not apply. (WRC-07)

**5.447A** The allocation to the fixed-satellite service (Earth-to-space) is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A.

**5.447B** *Additional allocation:* the band 5 150-5 216 MHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to provisions of No. 9.11A. The power flux-density at the Earth's surface produced by space stations of the fixed-satellite service operating in the space-to-Earth direction in the band 5 150- 5 216 MHz shall in no case exceed  $-164$  dB(W/m<sup>2</sup>) in any 4 kHz band for all angles of arrival.

**5.447C** Administrations responsible for fixed-satellite service networks in the band 5 150-5 250 MHz operated under Nos. 5.447A and 5.447B shall coordinate on an equal basis in accordance with No. 9.11A with administrations responsible for non-geostationary-satellite networks operated under No. 5.446 and brought into use prior to 17 November 1995. Satellite networks operated under No. 5.446 brought into use after 17 November 1995 shall not claim protection from, and shall not cause harmful interference to, stations of the fixed-satellite service operated under Nos. 5.447A and 5.447B.

**5.447D** The allocation of the band 5 250-5 255 MHz to the space research service on a primary basis is limited to active space borne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)

**5.447E** *Additional allocation:* The band 5 250-5 350 MHz is also allocated to the fixed service on a primary basis in the following countries in Region 3: Australia, Korea (Rep. of), India, Indonesia, Iran (Islamic Republic of), Japan, Malaysia, Papua New Guinea, the Philippines, Dem. People's Rep. of Korea, Sri Lanka, Thailand and Viet Nam. The use of this band by the fixed service is intended for the implementation of fixed wireless access systems and shall comply with Recommendation ITU-R F.1613. In addition, the fixed service shall not claim protection from the radiodetermination, Earth exploration-satellite (active) and space research (active) services, but the provisions of No. 5.43A do not apply to the fixed service with respect to the Earth exploration-satellite (active) and space research (active) services. After implementation of fixed wireless access systems in the fixed service with protection for the existing radiodetermination systems, no more stringent constraints should be imposed on the fixed wireless access systems by future radiodetermination implementations. (WRC-07)

**5.447F** In the band 5 250-5 350 MHz, stations in the mobile service shall not claim protection from the radiolocation service, the Earth exploration-satellite service (active) and the space research service (active). These services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendations ITU-R M.1638 and ITU-R RS.1632. (WRC-03)

**5.448A** The Earth exploration-satellite (active) and space research (active) services in the frequency band 5 250-5 350 MHz shall not claim protection from the radiolocation service. No. 5.43A does not apply. (WRC-03)

**5.448B** The Earth exploration-satellite service (active) operating in the band 5 350-5 570 MHz and space research service (active) operating in the band 5 460-5 570 MHz shall not cause harmful interference to the aeronautical

radionavigation service in the band 5 350-5 460 MHz, the radionavigation service in the band 5 460-5 470 MHz and the maritime radionavigation service in the band 5 470-5 570 MHz. (WRC-03)

**5.448C** The space research service (active) operating in the band 5 350-5 460 MHz shall not cause harmful interference to nor claim protection from other services to which this band is allocated. (WRC-03)

**5.448D** In the frequency band 5 350-5 470 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the aeronautical radionavigation service operating in accordance with No. 5.449. (WRC-03)

**5.449** The use of the band 5 350-5 470 MHz by the aeronautical radionavigation service is limited to airborne radars and associated airborne beacons.

**5.450** *Additional allocation:* in Austria, Azerbaijan, Iran (Islamic Republic of), Mongolia, Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 5 470-5 650 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-03)

**5.450A** In the band 5 470-5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. Radiodetermination services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendation ITU-R M.1638. (WRC-03)

**5.450B** In the frequency band 5 470-5 650 MHz, stations in the radiolocation service, except ground-based radars used for meteorological purposes in the band 5 600-5 650 MHz, shall not cause harmful interference to, nor claim protection from,



- radar systems in the maritime radionavigation service. (WRC-03)
- 5.451** *Additional allocation:* in the United Kingdom, the band 5470-5 850 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 authorized to operate on a basis of equality with stations of the maritime radionavigation service.
- 5.457A** In the bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may communicate with space stations of the fixed-satellite service. Such use shall be in accordance with Resolution **902 (WRC-03)**. (WRC-03)
- 5.457B** In the bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may operate with the characteristics and under the conditions contained in Resolution **902 (WRC-03)** in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, the Libyan Arab Jamahiriya, Jordan, Kuwait, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, Tunisia and Yemen, in the maritime mobile-satellite service on a secondary basis. Such use shall be in accordance with Resolution **902 (WRC-03)**. (WRC-03)
- 5.458** In the band 6 425-7 075 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7 075-7 250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth exploration-satellite (passive) and space research (passive) services in their future planning of the bands 6 425- 7 025 MHz and 7 075-7 250 MHz.
- 5.458A** In making assignments in the band 6 700-7 075 MHz to space stations of the fixed-satellite service, administrations are urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the band 6 650-6 675.2 MHz from harmful interference from unwanted emissions.
- 5.458B** The space-to-Earth allocation to the fixed-satellite service in the band 6 700-7 075 MHz is limited to feeder links for non-geostationary satellite systems of the mobile-satellite service and is subject to coordination under No. **9.11A**. The use of the band 6 700-7 075 MHz (space-to-Earth) by feeder links for non-geostationary satellite systems in the mobile-satellite service is not subject to No. **22.2**.
- 5.458C** Administrations making submissions in the band 7 025-7 075 MHz (Earth-to-space) for geostationary satellite systems in the fixed-satellite service after 17 November 1995 shall consult on the basis of relevant ITU-R Recommendations with the administrations that have notified and brought into use non-geostationary-satellite systems in this frequency band before 18 November 1995 upon request of the latter administrations. This consultation shall be with a view to facilitating shared operation of both geostationary-satellite systems in the fixed satellite service and non-geostationary-satellite systems in this band.
- 5.460** The use of the band 7 145-7 190 MHz by the space research service (Earth-to-space) is restricted to deep space; no emissions to deep space shall be effected in the band 7 190-7 235 MHz. Geostationary satellites in the space research service operating in the band 7 190-7 235 MHz shall not claim protection from existing and future stations of the fixed and mobile services and No. **5.43A** does not apply. (WRC-03)
- 5.461** *Additional allocation:* the bands 7 250-7 375 MHz (space-to-Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. **9.21**.
- 5.461A** The use of the band 7 450-7 550 MHz by the meteorological-satellite service (space-to-Earth) is limited to geostationary-satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 may continue to operate on a primary basis until the end of their lifetime. (WRC-97)
- 5.461B** The use of the band 7 750-7 850 MHz by the meteorological-satellite service (space-to-Earth) is limited to non-geostationary satellite systems. (WRC-97)
- 5.462A** In Regions 1 and 3 (except for Japan), in the band 8 025-8 400 MHz, the Earth exploration-satellite service using geostationary satellites shall not produce a power flux-density in excess of the following provisional values for angles of arrival ( $\theta$ ), without the consent of the affected administration:
- 174 dB(W/m<sup>2</sup>) in a 4 kHz band for  $0^\circ \leq \theta < 5^\circ$
  - 174 + 0.5 ( $\theta - 5$ ) dB(W/m<sup>2</sup>) in a 4 kHz band for  $5^\circ \leq \theta < 25^\circ$
  - 164 dB(W/m<sup>2</sup>) in a 4 kHz band for  $25^\circ \leq \theta \leq 90^\circ$
- These values are subject to study under Resolution 124 (WRC-97)\*. (WRC-97)
- \* This resolution was revised by WRC 2000
- 5.463** Aircraft stations are not permitted to transmit in the band 8 025-8 400 MHz. (WRC-97)
- 5.465** In the space research service, the use of the band 8 400-8 450 MHz is limited to deep space.
- 5.469A** In the band 8 550-8 650 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation service. (WRC-97)

- 5.470** The use of the band 8 750-8 850 MHz by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8 800 MHz.
- 5.472** In the bands 8 850-9 000 MHz and 9 200-9 225 MHz, the maritime radionavigation service is limited to shore-based radars.
- 5.473A** In the band 9 000-9 200 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, systems identified in No. **5.337** operating in the aeronautical radionavigation service, or radar systems in the maritime radionavigation service operating in this band on a primary basis in the countries listed in No. **5.471**. (WRC-07)
- 5.474** In the band 9 200-9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article **31**).
- 5.475** The use of the band 9 300-9 500 MHz by the aeronautical radionavigation service is limited to airborne weather radars and ground-based radars. In addition, ground-based radar beacons in the aeronautical radionavigation service are permitted in the band 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service. (WRC-07)
- 5.475A** The use of the band 9 300-9 500 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 300 MHz that cannot be fully accommodated within the 9 500-9 800 MHz band. (WRC-07)
- 5.475B** In the band 9 300-9 500 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, radars operating in the radionavigation service in conformity with the Radio Regulations. Ground-based radars used for meteorological purposes have priority over other radiolocation uses. (WRC-07)
- 5.476A** In the band 9 300-9 800 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from, stations of the radionavigation and radiolocation services. (WRC-07)
- 5.478A** The use of the band 9 800-9 900 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 500 MHz that cannot be fully accommodated within the 9 300-9 800 MHz band. (WRC-07)
- 5.478B** In the band 9 800-9 900 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from stations of the fixed service to which this band is allocated on a secondary basis. (WRC-07)
- 5.479** The band 9 975-10 025 MHz is also allocated to the meteorological-satellite service on a secondary basis for use by weather radars.
- 5.482** In the band 10.6-10.68 GHz, the power delivered to the antenna of stations of the fixed and mobile, except aeronautical mobile, services shall not exceed  $-3$  dBW. This limit may be exceeded, subject to agreement obtained under No. **9.21**. However, in Algeria, Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh, Belarus, Egypt, United Arab Emirates, Georgia, India, Indonesia, Iran (Islamic Republic of), Iraq, Jordan, Libyan Arab Jamahiriya, Kazakhstan, Kuwait, Lebanon, Morocco, Mauritania, Moldova, Nigeria, Oman, Uzbekistan, Pakistan, Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, Singapore, Tajikistan, Tunisia, Turkmenistan and Viet Nam, this restriction on the fixed and mobile, except aeronautical mobile, service is not applicable. (WRC-07)
- 5.482A** For sharing of the band 10.6-10.68 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile, except aeronautical mobile, services, Resolution **751 (WRC-07)** applies. (WRC-07)
- 5.484** 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-geostationary-satellite systems in the fixed satellite service and of the complete coordination or notification information, as appropriate, for the geostationary satellite networks, and No. **5.43A** does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)

- 5.487** In the band 11.7-12.5 GHz in Regions 1 and 3, the fixed, fixed-satellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcasting-satellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix 30. (WRC-03)
- 5.487A** *Additional allocation:* in Region 1, the band 11.7-12.5 GHz, in Region 2, the band 12.2-12.7 GHz and, in Region 3, the band 11.7-12.2 GHz, are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis, limited to non-geostationary systems and subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the broadcasting-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-03)
- 5.492** Assignments to stations of the broadcasting-satellite service which are in conformity with the appropriate regional Plan or included in the Regions 1 and 3 List in Appendix 30 may also be used for transmissions in the fixed-satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcasting-satellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
- 5.497** The use of the band 13.25-13.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
- 5.498A** The Earth exploration-satellite (active) and space research (active) services operating in the band 13.25-13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
- 5.501A** The allocation of the band 13.4-13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)
- 5.501B** In the band 13.4-13.75 GHz, the Earth exploration-satellite (active) and space research (active) services shall not cause harmful interference to, or constrain the use and development of, the radiolocation service. (WRC-97)
- 5.502** In the band 13.75-14 GHz, an earth station of a geostationary fixed-satellite service network shall have a minimum antenna diameter of 1.2 m and an earth station of a non-geostationary fixed-satellite service system shall have a minimum antenna diameter of 4.5 m. In addition, the e.i.r.p., averaged over one second, radiated by a station in the radiolocation or radionavigation services shall not exceed 59 dBW for elevation angles above 2° and 65 dBW at lower angles. Before an administration brings into use an earth station in a geostationary-satellite network in the fixed-satellite service in this band with an antenna diameter smaller than 4.5 m, it shall ensure that the power flux density produced by this earth station does not exceed:  
 –115 dB(W/(m<sup>2</sup> · 10 MHz)) for more than 1% of the time produced at 36 m above sea level at the low water mark, as officially recognized by the coastal State;
- 115 dB(W/(m<sup>2</sup> · 10 MHz)) for more than 1% of the time produced 3 m above ground at the border of the territory of an administration deploying or planning to deploy land mobile radars in this band, unless prior agreement has been obtained. For earth stations within the fixed-satellite service having an antenna diameter greater than or equal to 4.5 m, the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. (WRC-03)
- 5.503** In the band 13.75-14 GHz, geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 shall operate on an equal basis with stations in the fixed-satellite service; after that date, new geostationary space stations in the space research service will operate on a secondary basis. Until those geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 cease to operate in this band: – in the band 13.77-13.78 GHz, the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in geostationary-satellite orbit shall not exceed:  
 i)  $4.7D + 28$  dB(W/40 kHz), where  $D$  is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 1.2 m and less than 4.5 m;  
 ii)  $49.2 + 20 \log(D/4.5)$  dB(W/40 kHz), where  $D$  is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 4.5 m and less than 31.9 m;  
 iii) 66.2 dB(W/40 kHz) for any fixed-satellite service earth station for antenna diameters (m) equal to or greater than 31.9 m;  
 iv) 56.2 dB(W/4 kHz) for narrow-band (less than 40 kHz of necessary bandwidth) fixed satellite service earth station emissions from any fixed-satellite service earth station having an antenna diameter of 4.5 m or greater;

– the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in non-geostationary-satellite orbit shall not exceed 51 dBW in the 6 MHz band from 13.772 to 13.778 GHz.

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

- 5.504** The use of the band 14-14.3 GHz by the radionavigation service shall be such as to provide sufficient protection to space stations of the fixed-satellite service.
- 5.504A** In the band 14-14.5 GHz, aircraft earth stations in the secondary aeronautical mobile-satellite service may also communicate with space stations in the fixed-satellite service. The provisions of Nos. **5.29**, **5.30** and **5.31** apply. (WRC-03)
- 5.504B** Aircraft earth stations operating in the aeronautical mobile-satellite service in the band 14-14.5 GHz shall comply with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band located on the territory of Spain, France, India, Italy, the United Kingdom and South Africa. (WRC-03)
- 5.504C** In the band 14-14.25 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, Côte d'Ivoire, Egypt, Guinea, India, Iran (Islamic Republic of), Kuwait, Lesotho, Nigeria, Oman, the Syrian Arab Republic and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way

derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-03)

- 5.506** The band 14-14.5 GHz may be used, within the fixed-satellite service (Earth-to-space), for feeder links for the broadcasting-satellite service, subject to coordination with other networks in the fixed-satellite service. Such use of feeder links is reserved for countries outside Europe.
- 5.506A** In the band 14-14.5 GHz, ship earth stations with an e.i.r.p. greater than 21 dBW shall operate under the same conditions as earth stations located on board vessels, as provided in Resolution **902 (WRC-03)**. This footnote shall not apply to ship earth stations for which the complete Appendix **4** information has been received by the Bureau prior to 5 July 2003. (WRC-03)
- 5.506B** Earth stations located on board vessels communicating with space stations in the fixed-satellite service may operate in the frequency band 14-14.5 GHz without the need for prior agreement from Cyprus, Greece and Malta, within the minimum distance given in Resolution **902 (WRC-03)** from these countries. (WRC-03)
- 5.508** *Additional allocation:* in Germany, Bosnia and Herzegovina, France, Italy, Libyan Arab Jamahiriya, The Former Yugoslav Rep. of Macedonia and the United Kingdom, the band 14.25-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-07)
- 5.508A** In the band 14.25-14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, China, Côte d'Ivoire, Egypt, France, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Lesotho, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise

specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-03)

- 5.509A** In the band 14.3-14.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, Cameroon, China, Côte d'Ivoire, Egypt, France, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Lesotho, Morocco, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom, Sri Lanka, Tunisia and Viet Nam by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-03)
- 5.510** The use of the band 14.5-14.8 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. This use is reserved for countries outside Europe.
- 5.511A** The band 15.43-15.63 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. Use of the band 15.43-15.63 GHz by the fixed-satellite service (space-to-Earth and Earth-to-space) is limited to feeder links of non-geostationary systems in the mobile-satellite service, subject to coordination under No. **9.11A**. The use of the frequency band 15.43-15.63 GHz by the fixed-satellite service (space-to-Earth) is limited to feeder links of non-geostationary systems in the mobile-satellite service for which advance publication information has been received by the Bureau prior to 2 June 2000. In the space-to-Earth direction, the minimum earth station elevation angle above and gain towards the local horizontal plane and the minimum coordination distances to protect an earth station from

harmful interference shall be in accordance with Recommendation ITU-R S.1341. In order to protect the radio astronomy service in the band 15.35-15.4 GHz, the aggregate power flux-density radiated in the 15.35-15.4 GHz band by all the space stations within any feeder-link of a non-geostationary system in the mobile-satellite service (space-to-Earth) operating in the 15.43-15.63 GHz band shall not exceed the level of  $-156 \text{ dB(W/m}^2\text{)}$  in a 50 MHz bandwidth, into any radio astronomy observatory site for more than 2% of the time. (WRC-2000)

**5.511C** Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340. The minimum coordination distance required to protect the aeronautical radionavigation stations (No. **4.10** applies) from harmful interference from feeder-link earth stations and the maximum e.i.r.p. transmitted towards the local horizontal plane by a feeder-link earth station shall be in accordance with Recommendation ITU-R S.1340. (WRC-97)

**5.511D** Fixed-satellite service systems for which complete information for advance publication has been received by the Bureau by 21 November 1997 may operate in the bands 15.4-15.43 GHz and 15.63-15.7 GHz in the space-to-Earth direction and 15.63-15.65 GHz in the Earth-to-space direction. In the bands 15.4-15.43 GHz and 15.65-15.7 GHz, emissions from a non-geostationary space station shall not exceed the power flux-density limits at the Earth's surface of  $-146 \text{ dB(W/(m}^2\text{.MHz))}$  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  $-146 \text{ dB(W/(m}^2\text{.MHz))}$  for any angle of arrival, it shall coordinate under No. **9.11A** with the affected administrations. Stations in the fixed-satellite service operating in the band 15.63-15.65 GHz in the Earth-to-space direction shall not cause harmful interference to stations in the aeronautical radionavigation service (No. **4.10** applies). (WRC-97)

**5.513A** Spaceborne active sensors operating in the band 17.2-17.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (WRC-97)

**5.515** In the band 17.3-17.8 GHz, sharing between the fixed-satellite service (Earth-to-space) and the broadcasting-satellite service shall also be in accordance with the provisions of § 1 of Annex 4 of Appendix **30A**.

**5.516** The use of the band 17.3-18.1 GHz by geostationary-satellite systems in the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. The use of the band 17.3-17.8 GHz in Region 2 by systems in the fixed-satellite service (Earth-to-space) is limited to geostationary satellites. For the use of the band 17.3-17.8 GHz in Region 2 by feeder links for the broadcasting-satellite service in the band 12.2- 12.7 GHz, see Article **11**. The use of the bands 17.3-18.1 GHz (Earth-to-space) in Regions 1 and 3 and 17.8- 18.1 GHz (Earth-to-space) in Region 2 by non-geostationary-satellite systems in the fixed-satellite service is subject to application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. **5.43A** does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference

that may occur during their operation shall be rapidly eliminated. (WRC-2000)

**5.516A** In the band 17.3-17.7 GHz, earth stations of the fixed-satellite service (space-to-Earth) in Region 1 shall not claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix **30A**, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder link earth stations anywhere within the service area of the feeder link. (WRC-03)

**5.516B** The following bands are identified for use by high-density applications in the fixed-satellite service:

17.3-17.7 GHz (space-to-Earth) in Region 1,  
 18.3-19.3 GHz (space-to-Earth) in Region 2,  
 19.7-20.2 GHz (space-to-Earth) in all Regions,  
 39.5-40 GHz (space-to-Earth) in Region 1,  
 40-40.5 GHz (space-to-Earth) in all Regions,  
 40.5-42 GHz (space-to-Earth) in Region 2,  
 47.5-47.9 GHz (space-to-Earth) in Region 1,  
 48.2-48.54 GHz (space-to-Earth) in Region 1,  
 49.44-50.2 GHz (space-to-Earth) in Region 1,  
 and  
 27.5-27.82 GHz (Earth-to-space) in Region 1,  
 28.35-28.45 GHz (Earth-to-space) in Region 2,  
 28.45-28.94 GHz (Earth-to-space) in all Regions,  
 28.94-29.1 GHz (Earth-to-space) in Region 2 and 3,  
 29.25-29.46 GHz (Earth-to-space) in Region 2,  
 29.46-30 GHz (Earth-to-space) in all Regions,  
 48.2-50.2 GHz (Earth-to-space) in Region 2.

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

- 5.519** *Additional allocation:* the bands 18-18.3 GHz in Region 2 and 18.1-18.4 GHz in Regions 1 and 3 are also allocated to the meteorological-satellite service (space-to-Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-07)
- 5.520** The use of the band 18.1-18.4 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcasting-satellite service. (WRC-2000)
- 5.522A** The emissions of the fixed service and the fixed-satellite service in the band 18.6-18.8 GHz are limited to the values given in Nos. **21.5A** and **21.16.2**, respectively. (WRC-2000)
- 5.522B** The use of the band 18.6-18.8 GHz by the fixed-satellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (WRC-2000)
- 5.523A** The use of the bands 18.8-19.3 GHz (space-to-Earth) and 28.6-29.1 GHz (Earth-to-space) by geostationary and non-geostationary fixed-satellite service networks is subject to the application of the provisions of No. **9.11A** and No. **22.2** does not apply. Administrations having geostationary-satellite networks under coordination prior to 18 November 1995 shall cooperate to the maximum extent possible to coordinate pursuant to No. **9.11A** with non-geostationary-satellite networks for which notification information has been received by the Bureau prior to that date, with a view to reaching results acceptable to all the parties concerned. Non-geostationary-satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service networks for which complete Appendix 4 notification information is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- 5.523B** The use of the band 19.3-19.6 GHz (Earth-to-space) by the fixed-satellite service is limited to feeder links for non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. **9.11A**, and No. **22.2** does not apply.
- 5.523C** No. **22.2** shall continue to apply in the bands 19.3-19.6 GHz and 29.1-29.4 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix 4 coordination information, or notification information, is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- 5.523D** The use of the band 19.3-19.7 GHz (space-to-Earth) by geostationary fixed-satellite service systems and by feeder links for non-geostationary-satellite systems in the mobile-satellite service is subject to the application of the provisions of No. **9.11A**, but not subject to the provisions of No. **22.2**. The use of this band for other non-geostationary fixed-satellite service systems, or for the cases indicated in Nos. **5.523C** and **5.523E**, is not subject to the provisions of No. **9.11A** and shall continue to be subject to Articles 9 (except No. **9.11A**) and 11 procedures, and to the provisions of No. **22.2**. (WRC-97)
- 5.523E** No. **22.2** shall continue to apply in the bands 19.6-19.7 GHz and 29.4-29.5 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix 4 coordination information, or notification information, is considered as having been received by the Bureau by 21 November 1997. (WRC-97)
- 5.525** In order to facilitate interregional coordination between networks in the mobile-satellite and fixed satellite services, carriers in the mobile-satellite service that are most susceptible to interference shall, to the extent practicable, be located in the higher parts of the bands 19.7-20.2 GHz and 29.5-30 GHz.
- 5.526** In the bands 19.7-20.2 GHz and 29.5-30 GHz in Region 2, and in the bands 20.1-20.2 GHz and 29.9-30 GHz in Regions 1 and 3, networks which are both in the fixed-satellite service and in the mobile-satellite service may include links between earth stations at specified or unspecified points or while in motion, through one or more satellites for point-to-point and point-to-multipoint communications.
- 5.527** In the bands 19.7-20.2 GHz and 29.5-30 GHz, the provisions of No. **4.10** do not apply with respect to the mobile-satellite service.
- 5.528** The allocation to the mobile-satellite service is intended for use by networks which use narrow spot beam antennas and other advanced technology at the space stations. Administrations operating systems in the mobile-satellite service in the band 19.7-20.1 GHz in Region 2 and in the band 20.1-20.2 GHz shall take all practicable steps to ensure the continued availability of these bands for administrations operating fixed and mobile systems in accordance with the provisions of No. **5.524**.
- 5.530** In Regions 1 and 3, the use of the band 21.4-22 GHz by the broadcasting-satellite service is subject to the provisions of Resolution **525 (Rev.WRC-07)**. (WRC-07)
- 5.532** The use of the band 22.21-22.5 GHz by the Earth exploration-satellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services.
- 5.533** The inter-satellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.



- 5.535** In the band 24.75-25.25 GHz, feeder links to stations of the broadcasting-satellite service shall have priority over other uses in the fixed-satellite service (Earth-to-space). Such other uses shall protect and shall not claim protection from existing and future operating feeder-link networks to such broadcasting satellite stations. **5.535A** The use of the band 29.1-29.5 GHz (Earth-to-space) by the fixed-satellite service is limited to geostationary-satellite systems and feeder links to non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. **9.11A**, but not subject to the provisions of No. **22.2**, except as indicated in Nos. **5.523C** and **5.523E** where such use is not subject to the provisions of No. **9.11A** and shall continue to be subject to Articles **9** (except No. **9.11A**) and **11** procedures, and to the provisions of No. **22.2**. (WRC-97)
- 5.536** Use of the 25.25-27.5 GHz band by the inter-satellite service is limited to space research and Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space.
- 5.536A** Administrations operating earth stations in the Earth exploration-satellite service or the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the Earth exploration-satellite service or in the space research service should be operated taking into account Recommendations ITU-R SA.1278 and ITU-R SA.1625, respectively. (WRC-03)
- 5.536B** In Germany, Saudi Arabia, Austria, Belgium, Brazil, Bulgaria, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Spain, Estonia, Finland, France, Hungary, India, Iran (Islamic Republic of), Ireland, Israel, Italy, the Libyan Arab Jamahiriya, Jordan, Kenya, Kuwait, Lebanon, Liechtenstein, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Sweden, Switzerland, Tanzania, Turkey, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-07)
- 5.537** Space services using non-geostationary satellites operating in the inter-satellite service in the band 27- 27.5 GHz are exempt from the provisions of No. **22.2**.
- 5.538** *Additional allocation:* the bands 27.500-27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07)
- 5.539** The band 27.5-30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.
- 5.540** *Additional allocation:* the band 27.501-29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.
- 5.541** In the band 28.5-30 GHz, the earth exploration-satellite service is limited to the transfer of data between stations and not to the primary collection of information by means of active or passive sensors.
- 5.541A** Feeder links of non-geostationary networks in the mobile-satellite service and geostationary networks in the fixed-satellite service operating in the band 29.1-29.5 GHz (Earth-to-space) shall employ uplink adaptive power control or other methods of fade compensation, such that the earth station transmissions shall be conducted at the power level required to meet the desired link performance while reducing the level of mutual interference between both networks. These methods shall apply to networks for which Appendix 4 coordination information is considered as having been received by the Bureau after 17 May 1996 and until they are changed by a future competent world radiocommunication conference. Administrations submitting Appendix 4 information for coordination before this date are encouraged to utilize these techniques to the extent practicable. (WRC-2000)
- 5.543** 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.
- 5.546** *Different category of service:* in Saudi Arabia, Armenia, Azerbaijan, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, the United Kingdom, South Africa, Tajikistan, Turkmenistan and Turkey, the allocation of the band 31.5-31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. **5.33**). (WRC-07)
- 5.547** The bands 31.8-33.4 GHz, 37-40 GHz, 40.5-43.5 GHz, 51.4-52.6 GHz, 55.78-59 GHz and 64-66 GHz are available for high-density applications in the fixed service (see Resolution **75 (WRC-2000)**). Administrations should take this into account when considering regulatory provisions in relation to

these bands. Because of the potential deployment of high-density applications in the fixed-satellite service in the bands 39.5-40 GHz and 40.5- 42 GHz (see No. **5.516B**), administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-07)

- 5.547A** Administrations should take practical measures to minimize the potential interference between stations in the fixed service and airborne stations in the radionavigation service in the 31.8-33.4 GHz band, taking into account the operational needs of the airborne radar systems. (WRC-2000)
- 5.548** In designing systems for the inter-satellite service in the band 32.3-33 GHz, for the radionavigation service in the band 32-33 GHz, and for the space research service (deep space) in the band 31.8-32.3 GHz, administrations shall take all necessary measures to prevent harmful interference between these services, bearing in mind the safety aspects of the radionavigation service (see Recommendation **707**). (WRC-03)
- 5.549A** In the band 35.5-36.0 GHz, the mean power flux-density at the Earth's surface, generated by any spaceborne sensor in the Earth exploration-satellite service (active) or space research service (active), for any angle greater than 0.8° from the beam centre shall not exceed  $73.3 \text{ dB(W/m}^2\text{)}$  in this band. (WRC-03)
- 5.550A** For sharing of the band 36-37 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile services, Resolution **752 (WRC-07)** shall apply. (WRC-07)
- 5.551H** The equivalent power flux-density (epfd) produced in the band 42.5-43.5 GHz by all space stations in any non-geostationary-satellite system in the fixed-satellite service (space-to-Earth), or in the broadcasting-satellite service

operating in the 42-42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station for more than 2% of the time:

–230 dB(W/m<sup>2</sup>) in 1 GHz and –246 dB(W/m<sup>2</sup>) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and

–209 dB(W/m<sup>2</sup>) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station. These epfd values shall be evaluated using the methodology given in Recommendation ITU-R S.1586-1 and the reference antenna pattern and the maximum gain of an antenna in the radio astronomy service given in Recommendation ITU-R RA.1631 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle  $\Theta_{min}$  of the radiotelescope (for which a default value of 5° should be adopted in the absence of notified information).

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

– was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or

– was notified before the date of receipt of the complete Appendix 4 information for coordination or notification, as appropriate, for the space station to which the limits apply.

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

- 5.551I** The power flux-density in the band 42.5-43.5 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth), or the broadcasting-satellite service operating in the 42-42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station:

–137 dB(W/m<sup>2</sup>) in 1 GHz and –153 dB(W/m<sup>2</sup>) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and

–116 dB(W/m<sup>2</sup>) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station.

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

– was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004;

or

– was notified before the date of receipt of the complete Appendix 4 information for coordination or notification, as appropriate, for the space station to which the limits apply.

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

- 5.552** The allocation of the spectrum for the fixed-satellite service in the bands 42.5-43.5 GHz and 47.2-50.2 GHz for Earth-to-space transmission is greater than that in the band 37.5-39.5 GHz for space-to-Earth transmission in order to accommodate feeder links to broadcasting satellites. Administrations are urged to take all practicable steps to reserve the band 47.2-49.2 GHz for feeder links for the broadcasting-satellite service operating in the band 40.5-42.5 GHz.
- 5.552A** The allocation to the fixed service in the bands 47.2-47.5 GHz and 47.9-48.2 GHz is designated for use by high altitude platform stations. The use of the bands 47.2-47.5 GHz and 47.9-48.2 GHz is subject to the provisions of Resolution **122 (Rev.WRC-07)**. (WRC-07)



- 5.553** In the bands 43.5-47 GHz and 66-71 GHz, stations in the land mobile service may be operated subject to not causing harmful interference to the space radiocommunication services to which these bands are allocated (see No. 5.43). (WRC-2000)
- 5.554** In the bands 43.5-47 GHz, 66-71 GHz, 95-100 GHz, 123-130 GHz, 191.8-200 GHz and 252-265 GHz, satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with the mobile-satellite service or the radionavigation-satellite service. (WRC-2000)
- 5.554A** The use of the bands 47.5-47.9 GHz, 48.2-48.54 GHz and 49.44-50.2 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary satellites. (WRC-03)
- 5.555** *Additional allocation:* the band 48.94-49.04 GHz is also allocated to the radio astronomy service on a primary basis. (WRC-2000)
- 5.555B** The power flux-density in the band 48.94-49.04 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth) operating in the bands 48.2-48.54 GHz and 49.44-50.2 GHz shall not exceed  $-151.8$  dB(W/m<sup>2</sup>) in any 500 kHz band at the site of any radio astronomy station. (WRC-03)
- 5.556** In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy observations may be carried out under national arrangements. (WRC-2000)
- 5.556A** Use of the bands 54.25-56.9 GHz, 57-58.2 GHz and 59-59.3 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, shall not exceed  $-147$  dB(W/(m<sup>2</sup>.100 MHz)) for all angles of arrival. (WRC-97)
- 5.557** *Additional allocation:* in Japan, the band 55.78-58.2 GHz is also allocated to the radiolocation service on a primary basis. (WRC-97)
- 5.557A** In the band 55.78-56.26 GHz, in order to protect stations in the Earth exploration-satellite service (passive), the maximum power density delivered by a transmitter to the antenna of a fixed service station is limited to  $-26$  dB(W/MHz). (WRC-2000)
- 5.558** In the bands 55.78-58.2 GHz, 59-64 GHz, 66-71 GHz, 122.25-123 GHz, 130-134 GHz, 167-174.8 GHz and 191.8-200 GHz, stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service (see No. 5.43). (WRC-2000)
- 5.558A** Use of the band 56.9-57 GHz by inter-satellite systems is limited to links between satellites in geostationary-satellite orbit and to transmissions from non-geostationary satellites in high-Earth orbit to those in low-Earth orbit. For links between satellites in the geostationary-satellite orbit, the single entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface, for all conditions and for all methods of modulation, shall not exceed  $-147$  dB(W/(m<sup>2</sup>.100 MHz)) for all angles of arrival. (WRC-97)
- 5.559** In the band 59-64 GHz, airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the inter-satellite service (see No. 5.43). (WRC-2000)
- 5.560** In the band 78-79 GHz radars located on space stations may be operated on a primary basis in the Earth exploration-satellite service and in the space research service.
- 5.561** In the band 74-76 GHz, stations in the fixed, mobile and broadcasting services shall not cause harmful interference to stations of the fixed-satellite service or stations of the broadcasting-satellite service operating in accordance with the decisions of the appropriate frequency assignment planning conference for the broadcasting satellite service. (WRC-2000)
- 5.561A** The 81-81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis. (WRC-2000)
- 5.562** The use of the band 94-94.1 GHz by the Earth exploration-satellite (active) and space research (active) services is limited to spaceborne cloud radars. (WRC-97)
- 5.562A** In the bands 94-94.1 GHz and 130-134 GHz, transmissions from space stations of the Earth exploration-satellite service (active) that are directed into the main beam of a radio astronomy antenna have the potential to damage some radio astronomy receivers. Space agencies operating the transmitters and the radio astronomy stations concerned should mutually plan their operations so as to avoid such occurrences to the maximum extent possible. (WRC-2000)
- 5.562B** In the bands 105-109.5 GHz, 111.8-114.25 GHz, 155.5-158.5 GHz and 217-226 GHz, the use of this allocation is limited to space-based radio astronomy only. (WRC-2000)
- 5.562C** Use of the band 116-122.25 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed  $-148$  dB(W/(m<sup>2</sup>.MHz)) for all angles of arrival. (WRC-2000)
- 5.562E** The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5-134 GHz. (WRC-2000)

- 5.562F** In the band 155.5-158.5 GHz, the allocation to the Earth exploration-satellite (passive) and space research (passive) services shall terminate on 1 January 2018. (WRC-2000)
- 5.562G** The date of entry into force of the allocation to the fixed and mobile services in the band 155.5-158.5 GHz shall be 1 January 2018. (WRC-2000)
- 5.562H** Use of the bands 174.8-182 GHz and 185-190 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed -144 dB(W/(m<sup>2</sup>.MHz)) for all angles of arrival. (WRC-2000)
- 5.563A** In the bands 200-209 GHz, 235-238 GHz, 250-252 GHz and 265-275 GHz, ground-based passive atmospheric sensing is carried out to monitor atmospheric constituents. (WRC-2000)
- 5.563B** The band 237.9-238 GHz is also allocated to the Earth exploration-satellite service (active) and the space research service (active) for spaceborne cloud radars only. (WRC-2000)
- 5.565** The frequency band 275-1 000 GHz may be used by administrations for experimentation with, and development of, various active and passive services. In this band a need has been identified for the following spectral line measurements for passive services:
- radio astronomy service: 275-323 GHz, 327-371 GHz, 388-424 GHz, 426-442 GHz, 453-510 GHz, 623-711 GHz, 795-909 GHz and 926-945 GHz;
  - Earth exploration-satellite service (passive) and space research service (passive): 275-277 GHz, 294-306 GHz, 316-334 GHz, 342-349 GHz, 363-365 GHz, 371-389 GHz, 416-434 GHz, 442-444 GHz, 496-506 GHz, 546-568 GHz, 624-629 GHz, 634-654 GHz, 659-661 GHz, 684-692 GHz, 730-732 GHz, 851-853 GHz and 951-956 GHz.
- Future research in this largely unexplored spectral region may yield additional spectral lines and continuum bands of interest to the passive services. Administrations are urged to take all practicable steps to protect these passive services from harmful interference until the date when the allocation Table is established in the above mentioned frequency band. (WRC-2000)

## ANNEX 2 – EUROPEAN FOOTNOTES

These footnotes are listed in the Table of Frequency Allocations and are included in the European Common Allocation table which is available to download from <http://www.ero.dk/documentation/docs/doc98/official/pdf/ERCREP025.PDF>

<b>EU2</b>	Civil-military sharing.
<b>EU3</b>	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.
<b>EU4</b>	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.
<b>EU6</b>	The mobile-satellite service is limited to low earth orbiting satellites.
<b>EU7</b>	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.
<b>EU 9</b>	In a growing number of CEPT countries, parts of the band 70.0-70.5 MHz is also allocated to the Amateur service on a secondary basis.
<b>EU10</b>	The mobile service in the harmonised military band 225-400 MHz generally comprises land, air maritime and satellite mobile applications.
<b>EU12</b>	The applicable RR 5 footnotes remain in force. Administrations are however urged to aim for the fullest possible harmonisation with the ITU Table of Allocations and ECA.
<b>EU13</b>	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.
<b>EU14</b>	Radiolocation limited to military requirements for naval ship borne radars.
<b>EU15</b>	In the frequency band 1350-2690 MHz tactical radio relay systems should be capable of tuning over the full range of this band. Requirements for tactical radio relay should be met from the following sub-bands: 1350-1400 MHz; 1427-1452 MHz; 1492-1525 MHz; 1660-1670 MHz; 1675-1710 MHz; 1785-1800 MHz; 2025-2110 MHz; 2200-2290 MHz; 2520-2575 MHz; 2615-2670 MHz. Tactical radio relay systems may operate in the bands 2520-2575 MHz and 2615-2670 MHz provided that they shall not cause harmful interference to terrestrial UMTS/IMT-2000 and do not claim protection from them. The common requirement of 2 x 45 MHz for tactical radio relay for cross/near border operations and exercises should be met from 2025-2110 MHz and 2200-2290 MHz and in particular the bands 2025-2070 / 2200-2245 MHz.
<b>EU16</b>	On the introduction of IMT-2000, the fixed service will become secondary in appropriate parts of the band.
<b>EU17</b>	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.
<b>EU18</b>	This aeronautical radionavigation band shall be subject to further study to ascertain future requirements and developments.
<b>EU19</b>	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.
<b>EU21</b>	Not used.
<b>EU22</b>	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.

- 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).
- 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.
- EU31** The band 440-470 MHz is the tuning range for Private Wide Area Paging (PWAP).
- EU33** The band 1880-1900 MHz is generally expected to be used by IMT/DECT
- EU35** In Europe the band 75.5-76 GHz is also allocated to the Amateur and Amateur Satellite services.

# 08 Abbreviations and Definitions

## ANNEX 3 – ABBREVIATIONS AND DEFINITIONS

### ABBREVIATIONS

AIS	Automatic Identification System
AM	Amplitude Modulation
AMSS	Amplitude Modulation Signalling System
ATC	Air Traffic Control
CEPT	European Conference of Postal and Telecommunications Administrations
DAB	Digital Audio Broadcasting
DCS1800	Digital Communications System
DECT	Digital Enhanced Cordless Telecommunications
DGPS	Differential Global Positioning System
DSC	Digital Selective Calling
E/S	Earth to space direction of transmission
ECC	Electronic Communications Committee - A committee of CEPT responsible for radio and telecommunication matters
EESS	Earth Exploration-Satellite Service
EGSM	Extended Global System for Mobile Communications
ENG/OB	Electronic News Gathering/Outside Broadcast
EPIRB	Emergency Position-Indicating Radio Beacon
ERC	European Radiocommunications Committee - A committee of CEPT responsible for radio matters. Merged into the ECC and no longer in existence.
ERC/DEC	ERC Decision
ERC/REC	ERC Recommendation
ECC/DEC	ECC Decision
ECG	Electrocardiogram
ENG	Electronic News Gathering
ERO	European Radiocommunications Office - A permanent office within CEPT dealing with radio and telecommunication matters
ERMES	European Radio Message System
e.r.p.	Equivalent radiated power
E.I.R.P.	Equivalent isotropically radiated power
ETSI	European Telecommunication Standards Institute
FM	Frequency Modulation
FSS	Fixed Satellite Service
FSTV	Fast Scan Television
FWA	Fixed Wireless Access

# Abbreviations and Definitions

FWALA	Fixed Wireless Access Local Area
FWPMA	Fixed Wireless Point to Multipoint Access
GHz	Gigahertz - 1,000,000,000 Hertz
GE75	ITU Geneva 1975 Plan: assignment of frequencies to broadcasting stations in medium frequency bands in Regions 1 and 3 and in low frequency bands in Region 1.
GE84	ITU Geneva 1984 Plan for FM sound broadcasting stations in Region 1 and part of Region 3 in the band 87.5-108 MHz
GE85-EMA	ITU Geneva 1985 Regional Agreement concerning the planning of the Maritime Radionavigation Service (Radiobeacons) in the European Maritime Area
GE85-MM-R1	ITU Geneva 1985 Regional Agreement concerning the MF Maritime Mobile and Aeronautical Radionavigation Services (Region 1)
GE06	ITU Geneva 2006 Agreements: Final Acts of the Regional Radiocommunications Conference for the revision of the Geneva 1989 Agreement and Final Acts of the Regional Radiocommunications Conference for the revision of the Stockholm 1961 Agreement
GLONASS	Global Satellite Navigation System (Russian Federation)
GMDSS	Global Maritime Distress and Safety System
GPS	Global Positioning System
GSM	Global System for Mobile Communications
HF	High Frequency
HRPT	High Resolution Picture Transmission
Hz	Hertz, The unit of frequency measurement, (1 kHz = 1000 Hz, 1 MHz = 1000,000 Hz, 1GHz = 1000,000,000 Hertz)
IALA	International Association of Lighthouse Authorities
IF	Intermediate Frequency
ILS	Instrument Landing System
IMT-2000	International Mobile Telecommunications – 3 <sup>rd</sup> generation Mobile Systems
INTELSAT	Satellite and telecommunications operating company
INMARSAT	Satellite and telecommunications operating company
ISM	Industrial, Scientific and Medical applications
ITU	International Telecommunication Union
ITU-R	Radiocommunication Sector of the ITU
LAN	Local Area Network
LEO	Low Earth Orbit
LORAN C	Radionavigation System
MEO	Medium Earth Orbit
MHz	Megahertz - 1,000,000 Hertz
MLS	Microwave Landing System
MMDS	Multichannel multipoint distribution service
MSS	Mobile Satellite Service

# Abbreviations and Definitions

MWS	Multimedia Wireless System
NAVTEX	Navigation Text Messaging System
PAMR	Public Access Mobile Radio
PMR	Private Mobile Radio
Primary	Where a band is indicated as allocated to one or more services and the name of the service is printed in “Capitals” (e.g. MOBILE) these are called “primary” services. Within a band, Primary services shall have prior choice of frequencies (also see secondary services). Where a band is indicated in a footnote of the Table as allocated to a service “on a primary basis” in an area smaller than a region or in a particular country, this is a primary service in that country.
RACON	Radar Beacon
RLAN	Radio Local Area Network
SAP/SAB	Services Ancillary to Programme-making/Services Ancillary to Broadcasting
SAR	Search and Rescue
SARSAT	Search and Rescue Satellite Aided Tracking
S-DAB	Satellite Digital Audio Broadcasting
SNG	Satellite News Gathering
S-PCS	Satellite Personal Communications System
S/E	Space to Earth direction of transmission
S.I.	Statutory Instrument
SRD	Short Range Devices
SRR	Short Range Radar
ST61	ITU Stockholm 1961 Plan: Plans annexed to the Regional agreement for the European Broadcasting Area concerning the use of frequencies by the broadcasting services in the VHF and UHF bands
T-DAB	Terrestrial Digital Audio Broadcasting
TETRA	Terrestrial Trunked Radio (Digital)
TFTS	Terrestrial Flight Telephone System
UHF	Ultra High Frequency
UMTS	Universal Mobile Telecommunications Systems
VHF	Very High Frequency
VOR	VHF Omnidirectional Omnidirectional Navigation
VSAT	Very Small Aperture Terminal
WAN	Wide Area Network
WARC	World Administrative Radio Conference
WRC	World Radiocommunication Conference

# Abbreviations and Definitions

## DEFINITIONS

Allocation:	Entry in the Table of Frequency Allocations of a given frequency band for the purpose of its use by one or more terrestrial or space radiocommunication services or the radio astronomy service under specified conditions. This term shall also be applied to the frequency band concerned.
Aeronautical Mobile Service:	A mobile service between aeronautical stations and aircraft stations, or between aircraft stations, in which survival craft stations may participate; emergency position-indicating radiobeacon stations may also participate in this service on designated distress and emergency frequencies.
Aeronautical Fixed Service:	A radiocommunication service between specified fixed points provided primarily for the safety of air navigation and for the regular efficient and economical operation of air transport.
Aeronautical Mobile-Satellite Service:	A mobile satellite service in which mobile earth stations are located on board aircraft; survival craft stations and emergency position indicating radiobeacon stations may also participate in this service.
Aeronautical Radionavigation Service:	A radionavigation service intended for the benefit and for the safe operation of aircraft.
Amateur Service:	A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorised persons interested in radio technique solely with a personal aim and without pecuniary interest.
Amateur-Satellite Service:	A radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service.
Appendix 17	Appendix 17 of the ITU Radio Regulations: Frequencies and channelling arrangements in the high frequency bands for the maritime mobile service
Appendix 18	Appendix 18 of the Radio Regulations: Table of Transmitting frequencies in the band 156-174 MHz for stations in the maritime mobile service
Appendix 25	Appendix 25 of the ITU Radio Regulations: Provisions and associated frequency allotment plan for coast radiotelephone stations operating in the exclusive maritime mobile bands between 4 000 kHz and 27 500 kHz
Appendix 26	Appendix 26 of the ITU Radio Regulations: Provisions and associated frequency allotment plan for Aeronautical Mobile (OR) service in the band allocated exclusively to that service between 3 025 kHz and 18 030 kHz
Appendix 27	Appendix 27 of the ITU Radio Regulations: Frequency allotment plan for the aeronautical mobile (R) service and related information
Appendix 30	Appendix 30 of the Radio Regulations: Provisions for all services and associated plans for the broadcast-satellite service in frequency bands 11.7-12.2 GHz (in Region 3), 11.7-12.5 GHz (in Region 1), and 12.2-12.7 GHz (in Region 2)
Appendix 30A	Appendix 30A of the Radio Regulations: Provisions and associated plans for feeder links for the broadcasting-satellite services
Article 12	Article 12 of the ITU Radio Regulations: Seasonal planning of the HF bands allocated to the broadcast service between 5 900 kHz and 26 100 kHz
Broadcasting Service:	A radiocommunication service in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, television transmissions or other types of transmission.
Broadcasting-Satellite Service:	A radiocommunication service in which signals transmitted or retransmitted by space stations are intended for direct reception by the general public. In the broadcasting satellite service the term "direct reception" shall encompass both individual reception and community reception.
Citizen Band:	Short range radio service for both hobby and business use. It is designed to be used without the need to have any technical qualifications and not to cause interference to other radio users.
Deep Space:	Space at a distance from the Earth approximately equal to, or greater than, the distance between the earth and the moon.



# Abbreviations and Definitions

Earth Exploration-Satellite Service:	<p>A radiocommunication service between earth stations and one or more space stations which may include links between space stations, in which:</p> <ul style="list-style-type: none"><li>- information relating to the characteristics of the earth and its natural phenomena is obtained from active sensors or passive sensors on earth satellites;</li><li>- similar information is collected from airborne or earth based platforms;</li><li>- such information may be distributed to earth stations within the system concerned;</li><li>- platform interrogation may be included.</li></ul> <p>This service may also include feeder links necessary for its operation.</p>
Emergency Position Indicating Radiobeacon Station	<p>A station in the mobile service the emissions of which are intended to facilitate search and rescue operations.</p>
Fixed Service:	<p>A radiocommunication service between specified fixed points.</p>
Fixed-Satellite Service:	<p>A radiocommunication service between earth stations at specified fixed points when one or more satellites are used; in some cases this service includes satellite-to-satellite links, which may also be effected in the inter-satellite service; the fixed-satellite service may also include feeder links for other space radiocommunication services.</p>
Galileo:	<p>The European global satellite navigation system.</p>
Inductive Loop Systems:	<p>Systems which operate by producing a controlled magnetic field within which a predetermined recognisable signal is formed.</p>
Industrial, Scientific and Medical (ISM):	<p>Operation of equipment or appliances designed to generate and use locally, radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications.</p>
Instrument Landing System (ILS):	<p>A radionavigation system which provides aircraft with horizontal and vertical guidance just before and during landing and, at certain fixed points, indicates the distance to the reference point of landing.</p>
Inter-Satellite Service:	<p>A radiocommunication service providing links between artificial earth satellites.</p>
Land Mobile Service:	<p>A mobile radiocommunications service between base stations and land mobile stations or between land mobile stations.</p>
Maritime Mobile Service:	<p>A mobile service between coast stations and ship stations, or between ship stations, or between associated on board communication stations; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.</p>
Maritime Mobile-Satellite Service:	<p>A mobile satellite service in which mobile earth stations are located on board ships; survival craft stations and emergency position-indicating radiobeacon stations may also participate in this service.</p>
Maritime Radionavigation:	<p>A radionavigation service intended for the benefit and for the safe operation of ships.</p>
Meteorological Aids Service:	<p>A radiocommunication service used for meteorological, including hydrological, observations and exploration.</p>
Meteorological-Satellite Service:	<p>An earth exploration satellite service for meteorological purposes.</p>
Mobile Service:	<p>A radiocommunication service between mobile and land stations, or between mobile stations.</p>
Mobile-Satellite Service:	<p>A radiocommunication service between mobile earth stations and one or more space stations, or between space stations used by this service or between mobile</p>

# Abbreviations and Definitions

	earth stations by means of one or more space stations. This service may also include feeder links necessary for its operation.
Radar:	A radiodetermination system based on the comparison of reference signals with radio signals reflected, or retransmitted, from the position to be determined.
Radar Beacon (RACON):	A transmitter-receiver associated with a fixed navigational mark which, when triggered by a radar, automatically returns a distinctive signal which can appear on the display of the triggering radar, providing range, bearing and identification information.
Radio Astronomy:	Astronomy based on the reception of radio waves of cosmic origin.
Radio Astronomy Service:	A service involving the use of radio astronomy
Radiocommunications Service:	A service involving the transmission, emission and/or reception of radio waves for specific telecommunications purposes.
Radiodetermination:	The determination of the position, velocity and/or other characteristics of an object, or the obtaining of information relating to these parameters, by means of the propagation properties of radio waves.
Radionavigation:	Radiodetermination used for the purposes of radionavigation, including obstruction warning.
Radiolocation:	Radiodetermination used for purposes other than radionavigation.
Radiosonde:	An automatic radio transmitter in the meteorological aids service usually carried on an aircraft, free balloon, kite or parachute, and which transmits meteorological data.
Safety Service	Any radiocommunication service used permanently or temporarily for the safeguarding of human life and property.
Secondary	Where a band is indicated as allocated to one or more service and the name of the service is printed in normal characters (e.g. Mobile) these are called secondary services. Stations of a secondary service: <ul style="list-style-type: none"><li>- shall not cause harmful interference to stations of primary services to which the frequencies are already assigned or to which stations may be assigned at a later date</li><li>- cannot claim protection from harmful interference from stations of a primary service to which frequencies are already assigned or may be assigned at a later date;</li><li>- can claim protection, however, from harmful interference from stations of the same or other secondary service(s) to which frequencies may be assigned at a later date.</li></ul> Where a band is indicated in a footnote of the Table as allocated to a service "on a secondary basis" in an area smaller than a region or in a particular country, this is a secondary service.
Space Operations	A radiocommunication service concerned exclusively with the operation of spacecraft, in particular space tracking, space telemetry and space telecommand.
Space Research Service:	A radiocommunication service in which spacecraft or other objects in space are used for scientific or technological research purposes.
Standard frequency and Time Signal Service:	A radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals or both, of stated high precision, intended for general reception.
Standard Frequency and Time Signal - Satellite Service:	A radiocommunication service using space stations on earth satellites for the same purpose as those of the standard frequency and time signal service.

# 09 Other Relevant Documentation

## ANNEX 4 – OTHER RELEVANT DOCUMENTATION.

### EUROPEAN LEGISLATION

Directive 2009/114/EC	Amending Council Directive 87/372/EEC on the frequency bands to be reserved for the coordinated introduction of public pan-European cellular digital land-based mobile communications in the Community
Directive 2002/19/EC	Directive 2002/19/EC of the European Parliament and of the Council of 7 March 2002 on access to, and interconnection of electronic communications networks and associated facilities (Access Directive)
Directive 2002/20/EC	Directive 2002/20/EC of the European Parliament and of the Council of 7 March 2002 on the authorisation of electronic communications networks and services (Authorisation Directive)
Directive 2002/21/EC	Directive 2002/21/EC of the European Parliament and of the Council of 7 March 2002 on a common regulatory framework for electronic communications networks and services (Framework Directive)
Directive 2002/22/EC	Directive 2002/22/EC of the European Parliament and of the Council of 7 March 2002 on universal service and users' rights relating to electronic communications networks and services (Universal Service Directive)
Directive 1999/5/EC	Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity
Directive 87/372/EEC	Council Directive 87/372/EEC of 25 June 1987 on the frequency bands to be reserved for the coordinated introduction of public pan-European cellular digital land-based mobile communications in the Community
Decision 2010/368/EU	Commission Decision of 30 June 2010 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.
Decision 2010/166/EU	Commission Decision of 19 March 2010 on harmonised conditions of use of radio spectrum for mobile communication services on board vessels (MCV services) in the European Union
Decision 2009/766/EC	On the harmonization of the 900 MHz and 1800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community
Decision 2009/449/EC	Commission Decision of 13 May 2009 on the selection of operators of pan-European systems providing mobile satellite services (MSS).
Decision 2009/343/EC	Commission Decision of 21 April 2009 amending Decision 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.
Decision 2008/673/EC	Commission Decision of 13 August 2008 amending Decision 2005/928/EC on the harmonisation of the 169,4-169,8125 MHz frequency band in the Community.
Decision 2008/671/EC	Commission Decision of 5 August 2008 on the harmonised use of radio spectrum in the 5875 - 5905 MHz frequency band for safety related applications of Intelligent Transport Systems (ITS)
Decision 2008/477/EC	Commission Decision of 13 June 2008 on the harmonisation of the 2 500-2 690 MHz frequency band for terrestrial systems capable of providing electronic communications services in the Community
Decision 2008/411/EC	Commission Decision of 21 May 2008 on the harmonisation of the 3 400-3 800 MHz frequency band for terrestrial systems providing electronic communications services in the Community
Decision 2008/294/EC	Commission Decision of 7 April 2008 on harmonised conditions of spectrum use for the operation of mobile communication services on

# Other Relevant Documentation

	aircraft (MCA services) in the Community
Decision 2007/344/EC	Commission Decision of 16 May 2007 on harmonised availability of information regarding spectrum use within the Community.
Decision 2007/131/EC	Commission Decision of 21 April 2009 amending Decision 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community.
Decision 2007/98/EC	Commission Decision of 14 February 2007 on the harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services
Decision 2007/90/EC	Commission Decision of 12 February 2007 amending Decision 2005/513/EC on the harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)
Decision 2006/804/EC	Commission Decision of 23 November 2006 on harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (UHF) band
Decision 2006/771/EC	Commission Decision of 9 November 2006 on harmonisation of the radio spectrum for use by short-range devices
Decision 2005/928/EC	Commission Decision of 20 December 2005 on the harmonisation of the 169,4-169,8125 MHz frequency band in the Community
Decision 2005/631/EC	Commission Decision of 29 August 2005 concerning essential requirements as referred to in Directive 1999/5/EC of the European Parliament and of the Council ensuring access of Cospas-Sarsat locator beacons to emergency services
Decision 2005/82/EC	Directive 2005/82/EC of the European Parliament and of the Council of 14 December 2005 repealing Council Directive 90/544/EEC on the frequency bands designated for the coordinated introduction of pan-European land-based public radio paging in the Community
Decision 2005/50/EC	Commission Decision of 17 January 2005 on the harmonisation of the 24 GHz range radio spectrum band for the time-limited use by automotive short-range radar equipment in the Community
Decision 2004/545/EC	Commission Decision 2004/545/EC on the harmonisation of radio spectrum in the 79 GHz range for the use of automotive short-range radar equipment in the Community.
Decision 626/2008/EC	Decision No 626/2008/EC of the European Parliament and of the Council of 30 June 2008 on the selection and authorisation of systems providing mobile satellite services (MSS)
Decision 676/2002/EC	Decision No. 676/2002/EC of the European Parliament and of the Council of 7 March 2002 on a regulatory framework for radio spectrum policy in the European Community (Radio Spectrum Decision)
Decision 2001/148/EC	Commission Decision of 21 February 2001 on the application of Article 3(3)(e) of Directive 1999/5/EC to avalanche beacons
Decision 128/1999/EC	Decision No 128/1999/EC of the European Parliament and of the Council of 14 December 1998 on the coordinated introduction of a third-generation mobile and wireless communications system
Decision 91/288/EEC	Council Recommendation 91/288/EEC on the coordinated introduction of digital European cordless telecommunications (DECT) into the Community
Recommendation 2008/295/EC	Commission Recommendation of 7 April 2008 on authorisation of mobile communication services on aircraft (MCA services) in the European Community
Recommendation 2003/203/EC	Commission Recommendation of 20 March 2003 on the harmonisation of the provision of public R-LAN access to public electronic communications networks and services in the Community

# Other Relevant Documentation

## NATIONAL LEGISLATION

### PRIMARY LEGISLATION

Number 18 of 2009	Broadcasting Act 2009
Number 20 of 2002	Communications Regulation Act,
Number 24 of 1990	Broadcasting Act 1990
Number 45 of 1926	Wireless Telegraphy Act, 1926

### SECONDARY LEGISLATION

S.I. 290 of 2010	Wireless Telegraphy Act 1926 (Section 3)(Exemption of 406 MHz Personal Locator Beacons)
S.I. 445 of 2009	Wireless Telegraphy (UHF Television Programme Retransmission) Regulations, 2009
S.I. 370 of 2009	Wireless Telegraphy (Radio Link Licence) Regulations , 2009
S.I. 343 of 2008	Wireless Telegraphy Act 1926 (Section 3) (Exemption of Low Power Earth Stations On Board Vessels)
S.I. 324 of 2008	Wireless Telegraphy (Use of the Band 380 -400 MHz by Emergency Services) Regulations, 2008
S.I. 178 of 2008	Wireless Telegraphy Act 1926 (Section 3) (Exemption of Apparatus for Mobile Communication Services on Aircraft) order 2008
S.I. 762 of 2007	Wireless Telegraphy (National Point-to-Point and Point-to-Multipoint Block Licences)
S.I. 295 of 2007	Wireless Telegraphy (Fixed Satellite Earth Stations and Teleport Facility) Regulations 2007
S.I. 172 of 2007	Wireless Telegraphy (1785 - 1805 MHz Wireless Access Platform for Electronic Communications Services) Regulations, 2007
S.I. 414 of 2006	Wireless Telegraphy (Ship Station Radio Licence) Regulations, 2006
S.I. 304 of 2006	Wireless Telegraphy (Wireless Public Address System) Regulations, 2006
S.I. 296 of 2006	Wireless Telegraphy (National Point-to-Point and Point-to-Multipoint Block Licences)Regulations, 2006.
S.I. 160 of 2006	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Short Range Devices) (Amendment) Order, 2006
S.I. 642 of 2005	Statutory Instrument 642 of 2005 Wireless Telegraphy (Wideband Digital Mobile Data Services) Regulations 2005
S.I. 197 of 2005	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Receive Only Apparatus For Wireless Telegraphy) Order 2005 (for Receive only apparatus)
S.I. 128 of 2005	Wireless Telegraphy Act 1926 (Section) (Exemption of certain classes of Land Mobile Earth Stations) Order 2005
S.I. 855 of 2004	Irish Aviation Authority (Air Traffic Service Systems) Order, 2004
S.I. 007 of 2004	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Low Power Aircraft Earth Stations) Order, 2004
S.I. 530 of 2003	Wireless Telegraphy (Fixed Wireless Access Local Area Licence) (Amendment) Regulations, 2003
S.I. 529 of 2003	Wireless Telegraphy (Multipoint Microwave Distribution System) REGULATIONS 2003.
S.I. 505 of 2003	Wireless Telegraphy Act, 1926 (section 3) (Exemption of Certain Classes of Fixed Satellite Earth Stations) Order, 2003, S.I. No. 505 of 2003
S.I. 340 of 2003	Wireless Telegraphy (Third Generation and GSM Mobile Telephony Licence) (Amendment) Regulations, 2003: S.I. No. 340 of 2003
S.I. 339 of 2003	Wireless Telegraphy (GSM Mobile Telephony Licence) (Amendment) Regulations, 2003: S.I. No. 339 of 2003
S.I. 338 of 2003	Wireless Telegraphy (Fixed Wireless Point to Multi-point Access Licence) (Amendment) (no.2) Regulations, 2003: S.I. No. 338 of 2003
S.I. 158 of 2003	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Mobile Telephones)(Amendment) Order, 2003: S.I. No. 158 of 2003

# Other Relevant Documentation

S.I. 79 of 2003	Wireless Telegraphy (Fixed Wireless Access Local Area Licence) Regulations, 2003 (S.I. No. 79)
S.I. 467 of 2002	Wireless Telegraphy (Fixed Wireless Point to Multi-Point Access Licence) (Amendment) Regulations, 2002 (S.I. 467 of 2002)
S.I. 192 of 2009	Wireless Telegraphy (Amateur Station Licence) Regulations, 2009
S.I. 435 of 2002	Wireless Telegraphy (Mobile Radio Systems) Regulations, 2002 (S.I. No. 435 of 2002)
S.I. 405 of 2002	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Short Range Devices) Order, 2002
S.I. 398 of 2001	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of certain classes of Land Mobile Earth Stations) Order, 2001
S.I. 273 of 2000	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Certain Fixed Satellite Receiving Earth Stations) Order, 2000
S.I. 287 of 1999	Wireless Telegraphy (Fixed Wireless Point to Multi-Point Access Licence) Regulations, 1999
S.I. 107 of 1999	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of DCS 1800 Mobile Terminals) Order, 1999
S.I. 436 of 1998	Wireless Telegraphy Act, 1926 (Section 3) Exemption of Citizens' Band (CB) Radios Order, 1998
S.I. 214 of 1998	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Satellite Earth Stations for Satellite Personal Communications Services (S-PCS)) Order, 1998
S.I. 410 of 1997	Wireless Telegraphy (Cordless Telephones) Exemption Order, 1997
S.I. 409 of 1997	Wireless Telegraphy (Mobile Telephones) Exemption Order, 1997
S.I. 93 of 1998	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Short Range Business Radios) Order, 1993
S.I. 123 of 1996	European Communities (Mobile and Personal Communications) Regulations, 1996.
S.I. 416 of 1994	European Communities (co-ordinated introduction of public pan-european cellular digital land-based mobile communications-GSM) Regulations, 1994.
S.I. 168 of 1994	European Communities (Digital European Cordless Telecommunications — Dect) Regulations, 1994.
S.I. 83 of 1988	Wireless Telegraphy (Community Repeater Licence) Regulations, 1988.
S.I. 320 of 1949	Wireless Telegraphy (Business Radio Licence) Regulations, 1949, as amended.

# Other Relevant Documentation

## COMREG DOCUMENTATION

The ComReg documentation listed below and all other ComReg documentation is available to download from the ComReg website [www.comreg.ie](http://www.comreg.ie).

08/67	Emergency Services Digital Radio ('ESDR') Licence, Guidance Notes and Application Form
08/08	Radio Licensing for Special Events and Temporary Use in Ireland
07/37	Short Range Devices in the 10.5 - 10.6 GHz
06/26	Guidelines for Applicants - Wireless Public Address System (WPAS)
06/26a	Application Form - Wireless Public Address System (WPAS)
06/18	Information Notice Comparative Evaluation Stage - Revised FWALA Licensing Process
06/17R3	Revised Guidelines to Applicants for Fixed Wireless Access Local Area (FWALA) Licences
06/17a	Revised Application Form for Fixed Wireless Access Local Area (FWALA) Licence
05/93	Award of available spectrum: 1785 - 1805 MHz (ComReg and Ofcom)
05/31	Wideband Digital Mobile Data in the 420 MHz and 900 MHz bands
04/107	Wideband Digital Mobile Data Services in the 420MHz and 900 MHz bands
04/42	Technical Conditions For The Operation Of Digital Programme Services Distribution Systems
04/41	Technical Conditions For The Operation Of Analogue Programme Services Distribution Systems In Frequency Band 2500-2686 MHz
04/28	Technical Conditions for the operation of Digital Television Delivery Systems between 11.7GHz and 12.5GHz
04/27	Digital Television Delivery Systems at 12GHz, Guidance Notes for Applicants
04/26	Application Form for Digital Television Delivery Systems at 12GHz
02/71R	Permitted Short Range Devices in Ireland
02/12R	Paging Permit (On-site)- Application Form
02/11R2	Point to Multipoint Radio Link Licence, Guidance Notes and Application Form
02/05R4	Radio Experimenter Licence - Handbook
02/04R3	Radio Experimenter Licence - Application Form
02/03R	Community Repeater Licence - Application Form & Guidance Notes
02/02R	Temporary Business Radio Licence - Application Form
00/64R	Guidelines for applicants for satellite earth station licences in the fixed satellite service in spectrum above 3 GHz
00/07R2	Business Radio Licence - Application Form & Guidance Notes
98/14R6	Revised Guidelines to Applicants for Radio Links - Point-to-Point above 1GHz Licences
98/15R5	Point to Point Radio Link Licences above 1 GHz - Application Form

# Other Relevant Documentation

## CEPT DOCUMENTATION

All CEPT Decisions and Recommendations may be downloaded free of charge from the ERO website [www.ero.dk](http://www.ero.dk)

### ERC/ECC DECISIONS

These Decisions are available to download from <http://www.ecodocdb.dk/doks/doccategoryECC.aspx?doccatid=1>

ECC/DEC(10)01	ECC Decision of 12 November 2010 on sharing conditions in the 10.6-10.68 GHz band between the fixed service, mobile service and Earth exploration satellite service (passive)
ECC/DEC(08)08	ECC Decision of 31 October 2008 on the harmonised use of GSM system on board vessels in the frequency bands 880-915/925-960 MHz and 1710-1785/1805-1880 MHz
ECC/DEC(08)05	ECC Decision of 27 June 2008 on the harmonisation of frequency bands for the implementation of digital Public Protection and Disaster Relief (PPDR) radio applications in bands within the 380-470 MHz range
ECC/DEC(08)01	ECC Decision of 14 March 2008 on the harmonized use of the 5875 – 5925 MHz frequency band for Intelligent Transport systems
ECC/DEC(07)02	ECC Decision of 30 March 2007 on availability of frequency bands between 3400-3800 MHz for the Harmonised implementation of Broadband Wireless Access systems (BWA)
ECC/DEC(06)13	ECC Decision of 1 December 2006 on the designation of the bands 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz for terrestrial IMT-2000/UMTS systems
ECC/DEC(06)12	ECC Decision of 1 December 2006, amended 31 October 2008, on supplementary regulatory provisions to Decision ECC/DEC/(06)04 for UWB devices using mitigation techniques
ECC/DEC(06)09	ECC Decision of 1 December 2006 on designation of the bands 1980-2010 MHz and 2170-2200 MHz for use by systems in the Mobile-Satellite Service (MSS) including those supplemented by a Complementary Ground Component (CGC)
ECC/DEC(06)07	ECC Decision of 1 December 2006 on the harmonised use of airborne GSM systems in the frequency bands 1710-1785 and 1805-1880 MHz
ECC/DEC(06)06	ECC Decision of 7 July 2006 on the availability of frequency bands for the introduction of Narrow Band Digital Land Mobile PMR/PAMR in the 80 MHz, 160 MHz and 400 MHz bands
ECC/DEC(06)05	ECC Decision of 7 July 2006 on the harmonised frequency bands to be designated for Air-Ground-Air operation (AGA) of Digital Land Mobile Services for the Emergency Services
ECC/DEC(06)04	ECC Decision of 24 March 2006 amended 6 July 2007 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz
ECC/DEC(06)03	ECC Decision of 24 March 2006 on Exemption from Individual Licensing of High e.i.r.p. Satellite Terminals (HEST) with e.i.r.p. above 34 dBW operating within the frequency bands 10.70 - 12.75 GHz or 19.70 - 20.20 GHz space-to-Earth and 14.00 - 14.25 GHz or 29.50 - 30.00 GHz Earth-to-space
ECC/DEC(06)02	ECC Decision of 24 March 2006 on Exemption from Individual Licensing of Low e.i.r.p. Satellite Terminals (LEST) operating within the frequency bands 10.70 - 12.75 GHz or 19.7 - 20.2 GHz space-to-Earth and 14.00 - 14.25 GHz or 29.50 - 30.00 GHz Earth-to-Space.
ECC/DEC(06)01	ECC Decision of 24 March 2006 on the harmonised utilisation of spectrum for terrestrial IMT-2000/UMTS systems operating within the bands 1900-1980 MHz, 2010-2025 MHz and 2110-2170 MHz
ECC/DEC/(05)12	Digital PMR 446 applications operating in 446.1-446.2 MHz
ECC/DEC(05)11	ECC Decision of 24 June 2005 on the free circulation and use of Aircraft Earth Stations (AES) in the frequency bands 14-14.5 GHz (Earth-to-space), 10.7-



# Other Relevant Documentation

	11.7GHz (space-to-Earth) and 12.5-12.75 GHz (Space-to-Earth)
ECC/DEC(05)10	ECC Decision of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in fixed satellite service networks in the frequency bands 14 -14.5 GHz (Earth-to-space), 10.7-11.7 GHz (space-to-Earth) and 12.5-12.75 GHz (space-to-Earth)
ECC/DEC(05)09	ECC Decision of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in Fixed Satellite service networks in the frequency bands 5 925-6 425 MHz (Earth-to-space) and 3 700-4 200 MHz (space-to-Earth)
ECC/DEC(05)03	ECC Decision of 18 March 2005 on the withdrawal of the ERC/DEC(94)02 "Decision on the frequency band to be designated for the coordinated introduction of the European Radio Messaging System (ERMES)"
ECC/DEC(05)02	ECC Decision of 18 March 2005 on the use of the frequency band 169.4-169.8125 MHz
ECC/DEC(04)10	ECC Decision of 12 November 2004 on the frequency bands to be designated for the temporary introduction of Automotive Short Range Radars (SRR)
ECC/DEC(04)08	ECC Decision of 9 July 2004 on the harmonised use of the 5 GHz frequency bands for the implementation of Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)
ECC/DEC(04)06	ECC Decision of 19 March 2004 on the availability of frequency bands for the introduction of Wide Band Digital Land Mobile PMR/PAMR in the 400 MHz and 800/900 MHz bands
ECC/DEC(04)03	ECC Decision of 19 March 2004 on the frequency band 77-81 GHz to be designated for the use of Automotive Short Range Radars
ECC/DEC(03)02	ECC Decision of 17 October 2003 on the designation of the frequency band 1479.5-1492 MHz for use by Satellite Digital Audio Broadcasting systems
ECC/DEC(02)09	ECC Decision of 15 November 2002 on free circulation and use of GSM-R mobile terminals operating within the frequency bands 876-880 MHz and 921-925 MHz for railway purposes in CEPT countries, enlarging the field of application of ERC/DEC/(95)01
ECC/DEC(02)05	ECC Decision of 5 July 2002 on the esignation and availability of frequency bands for railway purposes in the 876-880 MHz and 921-925 MHz bands
ECC/DEC(02)01	ECC Decision of 15 March 2002 on the frequency bands to be designated for the coordinated introduction of Road Transport and Traffic Telematic Systems
ERC/DEC(01)19	ERC Decision of 12 March 2001 on harmonised frequency bands to be designated for the Direct Mode Operation (DMO) of the Digital Land Mobile Systems for the Emergency Services
ERC/DEC(01)17	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Ultra Low Power Active Medical Implants operating in the frequency band 402 - 405 MHz
ERC/DEC(01)16	ERC Decision on 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for inductive applications operating in the frequency band 26.957 - 27.283 MHz
ERC/DEC(01)12	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Model control operating in the frequencies 40.665, 40.675, 40.685 and 40.695 MHz
ERC/DEC(01)11	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Flying Model control operating in the frequency band 34.995 - 35.225 MHz
ERC/DEC(01)10	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Model control operating in the frequencies 26.995, 27.045, 27.095, 27.145 and 27.195 MHz
ERC/DEC(01)08	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for

# Other Relevant Documentation

ERC/DEC(01)07	Movement Detection and Alert operating in the frequency band 2400 - 2483.5 MHz ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Radio Local Area Networks (RLANs) operating in the frequency band 2400 - 2483.5 MHz
ERC/DEC(01)03	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Non-specific Short Range Devices operating in the frequency band 40.660 - 40.700 MHz
ERC/DEC(01)02	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Non-specific Short Range Devices operating in the frequency band 26.957 - 27.283 MHz
ERC/DEC(00)07	ERC Decision of 19 October 2000 on the shared use of the band 17.7 - 19.7 GHz by the fixed service and Earth stations of the fixed-satellite service (space-to-Earth)
ERC/DEC(99)06	ERC Decision of 10 March 1999 on the harmonised introduction of satellite personal communication systems operating in the bands below 1 GHz (S-PCS<1GHz)
ERC/DEC(99)17	ERC Decision of 1 June 1999 on the Automatic Identification and Surveillance system (AIS) channels in the maritime VHF band
ERC/DEC(98)25	ERC Decision of 23 November 1998 on the harmonised frequency band to be designated for PMR 446
ERC/DEC(98)11	ERC Decision of 23 November 1998 on the harmonised frequency band to be designated for CEPT PR 27 radio equipment and on the implementation of the technical standard for this equipment
ERC/DEC(97)05	ERC Decision (of 30 June 1997) amended by ECC 18 March 2005 on free circulation, use and licensing of Mobile Earth Stations of Satellite Personal Communications Services (S-PCS) operating within the bands 1610-1626.5 MHz, 2483.5-2500 MHz, 1980-2010 MHz and 2170-2200 MHz within the CEPT
ERC/DEC(97)03	ERC Decision of 30 June 1997 on the Harmonised Use of Spectrum for Satellite Personal Communication Services (S-PCS) operating within the bands 1610-1626.5 MHz, 2483.5-2500 MHz, 1980-2010 MHz and 2170-2200 MHz
ERC/DEC(97)02	ERC Decision of 21 March 1997 on the extended frequency bands to be used for the GSM Digital Pan-European Communication System
ERC/DEC(96)02	ERC Decision of 7 March 1996 : Harmonised frequency band to be designated for the introduction of the Digital Land Mobile System for the Emergency Services
ERC/DEC(95)03	ERC Decision of 1 December 1995 on the frequency bands to be designated for the introduction of DCS 1800
ERC/DEC(94)03	ERC Decision of 24 October 1994 : Frequency band to be designated for the coordinated introduction of the Digital European Cordless Telecommunications system
ERC/DEC(94)01	ERC Decision of 24 October 1994 on the frequency bands to be designated for the coordinated introduction of the GSM digital pan-European communications system
<b>CEPT RECOMMENDATIONS</b>	These Recommendations are available to download from <a href="http://www.ecodocdb.dk/doks/doccategoryECC.aspx?doccatid=2">http://www.ecodocdb.dk/doks/doccategoryECC.aspx?doccatid=2</a>
ECC/REC/(08)02	Frequency planning and frequency coordination for the GSM 900 (including E-GSM), UMTS 900, GSM 1800/UMTS 1800 Land Mobile Systems
ECC/REC/(08)01	Use of the band 5855-5875 MHz for Intelligent Transport Systems
ECC/REC/(06)04	Use of the band 5725-5875 MHz for Broadband Fixed Wireless Access (BFWA)
ECC/REC/(05)08	Frequency planning and frequency coordination for the GSM 900, GSM 1800, E-GSM and GSM-R Land Mobile Systems
ECC/REC/(05)07	Radio frequency channel arrangements for Fixed Service systems operating in the bands 71-76 GHz and 81-86 GHz
ECC/REC/(05)05	Early access for the Amateur service to the band 7100 - 7200 kHz

# Other Relevant Documentation

ECC/REC/(04)06	Guidelines for block allocation for Fixed Wireless systems in the band 31.8-33.4 GHz
ECC/REC/(04)05	Guidelines for accommodation and assignment of Multipoint Fixed Wireless systems in frequency bands 3.4-3-6 GHz and 3.6-3-8 GHz
ECC/REC/(02)09	Protection of Aeronautical Radio Navigation Service in the band 2700-2900 MHz from interference caused by the operation of Digital Cordless Cameras
ECC/REC/(02)06	Preferred channel arrangements for digital Fixed Service Systems operating in the frequency range 7125-8500 MHz
ERC/REC/(00)05	Use of the band 24.5 - 26.5 GHz for fixed wireless access
ERC/REC/(01)01	Border coordination of UMTS
ERC/REC 70-03	ERC Recommendation 70-03 (Tromsø 1997 and subsequent amendments) relating to the use of Short Range Devices (SRD)
ERC/REC 54-01	Method of measuring the maximum frequency deviation of FM broadcast emissions in the band 87.5 MHz to 108 MHz at monitoring stations
ERC/REC 25-10	Frequency ranges for the use of temporary terrestrial audio and video SAP/SAB links (incl. ENG/OB)
ERC/REC 14-03	Harmonised radio frequency channel arrangements for low and medium capacity systems in the band 3400 MHz to 3600 MHz
ERC/REC 14-02	Radio-frequency channel arrangements for medium and high capacity analogue or high capacity digital radio-relay systems in the band 6425 MHz - 7125 MHz
ERC/REC 14-01	Radio-frequency channel arrangements for high capacity analogue and digital radio-relay systems operating in the band 5925 MHz - 6425 MHz
ERC/REC 13-03	The use of the band 14.0 - 14.5 GHz for Very Small Aperture Terminals (VSAT) and Satellite News Gathering (SNG)
ERC/REC 12-09	Radio frequency channel arrangement for Fixed Service systems operating in the band 57.0 - 59.0 GHz which do not require frequency planning
ERC/REC 12-07	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 14.5 - 14.62 GHz paired with 15.23 - 15.35 GHz
ERC/REC 12-06	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 10.7 GHz to 11.7 GHz
ERC/REC 12-05	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 10.0 - 10.68 GHz
ERC/REC 12-03	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 17.7 GHz to 19.7 GHz
ERC/REC 12-02	Harmonised radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 12.75 GHz to 13.25 GHz
T/R 32-02	Frequencies to be used by on-board communication stations
T/R 25-09	Designation of frequencies in the 900 MHz band for railway purposes
T/R 25-08	Planning criteria and coordination of frequencies in the Land Mobile Service in the range 29.7-921 MHz
T/R 20-09	PR 27 radio equipment intended to provide short range voice radiocommunication in the 27 MHz band
T/R 13-02	Preferred channel arrangements for fixed services in the range 22.0-29.5 GHz
T/R 13-01	Preferred channel arrangements for fixed services in the range 1-3 GHz
T/R 12-01	Harmonized radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 37-39.5 GHz
T/R 02-02	Harmonised frequency band for the emergency services

# Other Relevant Documentation

## CEPT Arrangements

GE06 Agreements	Final Acts of the Regional Radiocommunication Conference for planning of the digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz (RRC-06)
GE85-MM-R1	Frequency Assignment plan for stations of the maritime mobile and aeronautical radionavigation service in the MF bands in Region 1 contained in the Final Acts of the Regional Administrative Radio Conference for the Planning of the Maritime Mobile and Aeronautical Radionavigation Service (Region 1), Geneva, 1985
GE85-EMA	Frequency assignment plan for stations of the radionavigation service (radiobeacons) for the European maritime area in the band 283.5 – 315 kHz contained within the Final Acts of the Regional Administrative Radio Conference for the Planning of the Maritime Radionavigation Service (Radiobeacons), Geneva, 1985
GE84	Geneva Plan of 1984
GE75	The Final Acts of the Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3) Geneva, 1975
MA02revCO07	Final Acts of the CEPT Multi-lateral Meeting for the frequency band 1452 - 1479.5 MHz Constanța, 2007
WI95revCO07	Final Acts of the CEPT T-DAB Planning Meeting Constanța, 2007 Annex I, Annex II

## ITU DOCUMENTATION

### ITU Documentation

ITU-R M.824	Technical Parameters of Radar Beacons
ITU-R M.823	Recommendation on the technical characteristics of differential transmissions for global navigation satellite systems from maritime radio beacons in the frequency band 283.5-315 kHz in region 1 and 285-325 kHz in regions 2 and 3.
ITU-R M.588-1	Black and white facsimile transmissions over combined metallic and radio circuits in the maritime mobile service and in the maritime mobile-satellite service
ITU-R F.746	Radio-frequency arrangements for fixed service systems
ITU-R F.636	Radio-frequency channel arrangements for radio-relay systems operating in the 15 GHz band.
ITU-R F.387	Radio-frequency channel arrangements for radio-relay systems operating in the 11 GHz band.
ITU-R F.386	Radio-frequency channel arrangements for radio-relay systems operating in the 8 GHz band.(Annex 1: 7725-8275 MHz (L 8 GHz Band), Annex 3: 8275-8500 MHz (U8 GHz Band))
ITU Resolution 217	Implementation of wind profiler radars

### Other Documentation

IALA recommendation R-101	Recommendation R101 on Maritime Radar Beacons (RACONS)
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# 10 Sources of Further Information

## ANNEX 5 - SOURCES OF FURTHER INFORMATION

### **The International Telecommunications Union**

This organisation is responsible for the publication of the Radio Regulations which includes the International Table of Frequency Allocations. The Radio Regulations also detail the footnotes, appendices and describe the different categories of service referred to in the Table of Frequency Allocations, Ireland.

### **Publications of the International Telecommunications Union (ITU) can be obtained from:**

Sales Service,  
International Telecommunications Union,  
Place Des Nations,  
Ch-1211 Geneva 20,  
Switzerland.  
Tel: +41 22 730 61 41  
Fax: +41 22 730 51 94  
Email: [sales@itu.ch](mailto:sales@itu.ch)  
Web Site: <http://www.itu.int/publications>

### **CEPT Documentation, including ERC and ECC Decisions, Recommendations, Reports and Publications of the European Radiocommunications Office (ERO) can be obtained from:**

The European Radiocommunications Office,  
Peblingehus  
Nansensgade 19  
DK 1366 Copenhagen,  
Denmark.  
Tel: +45 33 89 63 00  
Fax: +45 33 89 63 30  
E-mail: [ero@ero.dk](mailto:ero@ero.dk)  
Web Site: <http://www.ero.dk>

### **EC Directives can be obtained from:**

The European Commission Representation in Ireland,  
European House,  
Dawson Street,  
Dublin 2.  
Tel: 01 662 5113  
Fax: 01 662 5118

Website: <http://www.euireland.ie/office/library.htm>

### **Irish Government Publications, including Statutory Instruments, can be obtained from:**

Government Publications Sales Office,  
Sun Alliance House,  
Molesworth Street,  
Dublin 2.  
Tel: (01) 647 6879

### **Queries relating to this document can be directed to:**

The Commission for Communications Regulation,  
Abbey Court,  
Irish Life Centre,  
Lower Abbey Street,  
Dublin 1.

Tel: 01 804 9600  
Fax: 01 804 9680  
Email: [info@comreg.ie](mailto:info@comreg.ie)  
Web Site: <http://www.comreg.ie>

# Comment Form

Comments and any proposed amendments or changes will assist ComReg in preparing the next edition of the Radio Frequency Plan for Ireland. Thank you for your input.

<b>Name:</b>	
<b>Organisation:</b>	
<b>Address:</b>	
<b>Date:</b>	

Please detail below any changes you wish to have considered when the next edition is being prepared and forward to The Commission for Communications Regulation, Abbey Court, Irish Life Centre, Lower Abbey Street, Dublin 1 or to [info@comreg.ie](mailto:info@comreg.ie) or fax to + 353 1 804 9665.

<b>Reason for proposed change(s):</b>

## Details of Proposed Change(s)

Page	Frequency Band	Comments on Specific Entries

<b>Other Comments</b>



Commission for  
**Communications Regulation**

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**An Coimisiún um Rialáil Cumarsáide**  
**Commission for Communications Regulation**

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