



Commission for  
**Communications Regulation**

# COMREG

## Radio Frequency Plan for Ireland

### Document Revision History

Document Version	RevisionDate	Nature of Revision
17/34	03 May 2017	Major update of RFPI
17/34R	23 March 2020	Redacted areas are detailed in ComReg. Doc. 20/17

### **PLEASE NOTE:**

**Sections of tables in this document  
have been redacted.**

**The text of these updates tables can  
be found in ComReg document  
20/17.**

<b>Section</b>	<b>Page</b>
01 Foreword	1
02 Introduction	4
Structure of the Plan	6
Example of using the Tables	7
Disclaimer	9
01 Réamhrá	10
02 Tús Eolais	12
Struchtúr an Phlean	14
Sampla d'úsáid na dTáblaí	15
Séanadh	17
03 Spectrum from 8.3 kHz to 27500 kHz	18
04 Spectrum from 27.5 MHz to 10000 MHz	68
05 Spectrum from 10 GHz to 3000 GHz	157
06 ITU Footnotes	219
European Footnotes	254
Abbreviations and Definitions	256
Other Relevant Documentation	254
10 Sources of Further Information	265
Comment Form	282
Notes	284

I am pleased to present the eighth edition of the Radio Frequency Plan for Ireland. Radio frequency spectrum (“Spectrum”) is a finite but essential natural resource contributing €4.7 billion to Ireland’s Gross Domestic Product (GDP). The Commission for Communications Regulation (ComReg) is tasked with managing increasingly complex requirements for Spectrum, in order to support key industries and stakeholders such as: those in the Broadcasting, Defence Forces, Education, Emergency Services, Telecommunications and Transport sectors, to name but a few. There has also been a massive increase in the consumption of data by mobile users since the advent of the smartphone, exceeding 500% since 2012, which has been facilitated by improvements in 3G and new 4G network rollouts. The use of wireless devices, such as smartphones and tablets in facilitating wireless broadband access to the internet is now an important dimension, in meeting the demands of many users. Furthermore, developments such as the Internet of Things (IoT), smart metering and the forthcoming 5G mobile networks are also supported by Spectrum. Indeed ComReg’s Test and Trial Ireland (<http://testandtrial.ie/>) in facilitating research into many of these applications.

This latest edition also details several significant amendments that were introduced at the World Radiocommunication Conference of the ITU in 2015 (WRC-15) and includes all of the required updates on national and European legislation, together with the applicable CEPT Decisions and Recommendations are included.

The provision of clear, complete and accurate information on Spectrum is therefore, essential for all stakeholders. Moreover, section 35 of the Communications Act, 2002, obliges the Commission for Communications Regulation (“ComReg”) to produce, publish and maintain the national Radio Frequency Plan, detailing all radio frequency allocations in Ireland. The last complete revision took place in 2014, with lesser revisions taking place in the interim, reflecting all of the relevant amendments and updates, on both a national and international level, applicable to Ireland.

In publishing the Radio Frequency Plan for Ireland, ComReg is maintaining 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.

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

Gerry Fahy  
Chairperson  
Commission for Communications Regulation  
April 2017

<sup>1</sup> International Telecommunication Union: <http://www.itu.int/>

<sup>2</sup> Frequency Arrangements and Results of the Multi-Band Spectrum Award Process; [http://www.comreg.ie/\\_fileupload/publications/ComReg12131.pdf](http://www.comreg.ie/_fileupload/publications/ComReg12131.pdf)

<sup>3</sup> European Conference of Postal and Telecommunications Administrations: <http://www.cept.org/>.

This document contains the Radio Frequency Plan for Ireland as revised on 03 May 2017. In combination with using this document, users are advised to refer to the ComReg website<sup>4</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)<sup>5</sup> Allocations applicable to Ireland and the associated European Common Allocation (from ERC Report 025<sup>6</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 are made to align the document with any new international agreements reached on spectrum utilisation e.g. at World Radiocommunication Conferences (WRCs) of the ITU, within CEPT or the European Union.

<sup>4</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>5</sup> <http://www.itu.int/>

<sup>6</sup> <http://www.erdocdb.dk/Docs/doc98/official/pdf/ERCREP025.PDF>



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	<b>ComReg Documents: 02/02R, 02/03R, 00/07R2.</b>
		Radio Astronomy				
			Amateur (secondary) (70.125-70.450 MHz)	National Legislation: S.I. 192 of 2009		
5.149	5.149 EU2 EU4 EU27					

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 and associated allocation where applicable, for 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.

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	See ComReg document 02/71R
			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.

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 0252.

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 <http://www.ecodocdb.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).



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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.

Tá áthas orm an t-ochtú heagrán den Phlean Minicíochta Raidió a chur faoi bhur mbráid. Is acmhainn náisiúnta luachmhar teoranta ach riachtanach í Speictream Minicíochta Raidió (“Speictream”) a chuireann €4.6 billiún le holltáirgeacht intíre (OTI) na hÉireann<sup>1</sup>. Is é an Coimisiún um Rialáil Cumarsáide (ComReg) atá freagrach as bainistíocht a dhéanamh ar na riachtanais chasta speictrim, riachtanais atá ag dul i ndeacracht, chun tacú le príomhthionscail agus príomhgheallsealbhóirí ar nós iad siúd in earnálacha na Craoltóireachta, na bhFórsaí Cosanta, Oideachais, na Seirbhísí Éigeandála, Teileachumarsáide, Iompair gan ach cuid acu a lua. Tá méadú suntasach tagtha ar an méid sonraí atá in úsáid ó tháinig fóin chliste ar an saol, méadú atá níos airde ná 500% ó 2012<sup>1</sup>, rud atá eascailte ag feabhsuithe i gcur i bhfeidhm na ngréasán nua 3G agus 4G. Is cuid ríthábhachtach í úsáid gléasanna gan sreang, ar nós fón cliste agus táibléad, in éascú a dhéanamh ar rochtain leathanbhanda gan sreang ar an idirlíon chun riachtanais go leor úsáideoirí a shásamh. Chomh maith le sin, tacaíonn Speictream le forbairtí ar nós Idirlíon na nÉarraí, méadraithe cliste agus gréasán soghluaiste 5G atá romhainn. Go deimhin, bíonn Test and Trial Ireland de chuid ComReg ag éascú le taighde a dhéanamh ar go leor de na feidhmchláir seo.

Déanann an t-eagrán seo cur síos ar chuid de na leasuithe suntasacha a tugadh isteach ag an gComhdháil Domhanda ar Radchumarsáid de chuid an ITU<sup>1</sup> in 2015 (WRC-15). Tá na nuashonrúcháin riachtanacha go léir ar reachtaíocht náisiúnta agus Eorpach chomh maith le cinntí agus moltaí ábhartha CEPT<sup>1</sup> san áireamh chomh maith.

Tá sé riachtanach mar sin go mbeidh eolas atá soiléir, iomlan agus cruinn ar an Speictream á chur ar fáil do na geallsealbhóirí go léir. Thairis sin, leagann alt 35 den tAcht Cumarsáide, 2002, dualgas ar ComReg an Plean Minicíochta Raidió náisiúnta a chruthú, a fhoilsiú agus a choinneáil, ina ndéantar an leithdháileadh minicíochta raidió go léir in Éirinn a shonrú. Rinneadh an t-athbhreithniú iomlán deireanach i 2014, agus rinneadh athbhreithnithe níos lú idir an dá linn a léiríonn na leasuithe agus na nuashonrúcháin ábhartha go léir go náisiúnta agus go hidirnáisiúnta a bhaineann le hÉirinn.

Agus an Plean Minicíochta Raidió d’Éirinn a fhoilsiú, tá ComReg ag leanúint lena thiomantas do na geallsealbhóirí go léir, agus é ag cinntiú go gcuirtear foinse chuimsitheach eolais ar fáil, agus é ag soláthar príomhshonraí ar leithdháileadh reatha agus féideartha speictream raidió in Éirinn.

Cuireann ComReg fáilte roimh leasuithe nó athruithe molta ar bith i dtaobh an Phlean Minicíochta d’Éirinn. Tá foirm do thráchtanna iniata ag deireadh na cáipéise ar mhaithe le do chaoithiúlacht.

Gearóid Ó Fathaigh

Cathaoirleach

An Coimisiún um Rialáil Cumarsáide

Aibreán 2017



Tá an Plean Minicíochta Raidió d'Éirinn sa doiciméad seo, mar a bhí athmheasta ar 29 Samhain 2013. In éineacht leis an doiciméad seo a úsáid, moltar d'úsáideoirí féachaint ar shuíomh gréasáin an Choimisiúin<sup>4</sup> chun nuashonrúcháin bhreise a dhéantar ar an bPlean a fháil.

Tá an doiciméad roinnte i ndeich rannán. Tá na táblaí leithdháilte minicíochta i dtrí cinn de na rannáin seo. Tá an plean minicíochta don bhanda ó 9 kHz go 27500 KHz i Rannán 3. Tá an plean minicíochta don bhanda ó 27.5 MHz – 10 000 MHz i Rannán 4. Tá an plean minicíochta don bhanda ó 10 GHz - 1000 GHz i Rannán 5, agus aguisíní an doiciméid ina dhiaidh sin.

Maidir le gach banda minicíochta, sonraítear na cineálacha seirbhísí raidió atá ceadaithe a bheith á n-oibriú in Éirinn agus na seirbhísí raidió sin atá in úsáid faoi láthair sa bhanda sin. Chomh maith leis sin déantar cur síos ar Leithdháileadh an Aontais Idirnáisiúnta Teileachumarsáide (AIT)<sup>5</sup> ar Éirinn agus ar an Leithdháileadh gaolmhar Comónta Eorpach (ó Thuarascáil ERC 025<sup>6</sup>) maidir le gach banda minicíochta, in éineacht le reachtaíocht náisiúnta agus Eorpach is infheidhme, cinntí agus moltaí bainteacha Eorpacha agus doiciméid an Choimisiúin um Rialáil Cumarsáide.

Ba chóir duit a thabhairt do d'aire go ndéanfar nuashonrú rialta ar an Tábla Leithdháilte Minicíochta seo ar mhaithe le tabhairt isteach seirbhísí nua raidió a éascú agus chun leithdháileadh seirbhísí raidió a bhfuil deireadh curtha leo a bhaint. Déanfar leasú chomh maith chun an doiciméad a chur i gcomhréir le comhaontuithe nua idirnáisiúnta ar bith a bhainfear amach ar úsáid speictrim m.sh. ag Comhdhálacha Domhanda Radachumarsáide (CDRanna) den AIT nó i CERPT nó san Aontas Eorpach.

<sup>4</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>5</sup> <http://www.itu.int/>

<sup>6</sup> <http://www.erodocdb.dk/Docs/doc98/official/pdf/ERCREP025.PDF>



Níl sa mhéid thíos ach sampla agus ní gá go léiríonn sé cás cruinn an bhanda mhinicíochta seo, rud atá tugtha sna táblaí mionsonraithe san fhoilseachán seo.

Banda Minicíochta (MHz)	Leithdháileadh agus Fonótaí an AIT a bhaineann le hÉirinn	Leithdháileadh Comónta Eorpach	Úsáid Náisiúnta	Reachtaíocht Náisiúnta agus Eorpach	Cinntí agus Moltaí Bainteacha CERPT	Nótaí
68 - 74.8	SEASTA					
	Seirbhís SHOGLLUAISTE seachas seirbhís aerloingseoireachta shoghluaiste	Seirbhís SHOGLLUAISTE seachas seirbhís aerloingseoireachta shoghluaiste	Banda íseal VHF: PMR Soghluaiste Talún, Athchraoltóirí Pobail agus Raidió Gnó Tríú Páirtí	Reachtaíocht Náisiúnta: Na Rialacháin (Ceadúnas Raidió Gnó) Raidió-Theileagrafaíochta 1949 mar a leasíodh, I.R. 435 de 2002, I.R. 83 de 1988, S.I. 646 de 2005	Moladh ECC/DEC(06)06 T/R 25-08	<b>Doiciméid ón gCoimisiún um Rialáil Cumarsáide: 02/02R, 02/03R, 00/07R2.</b>
		Réalteolaíocht Raidió				
			Amaitéarach (tánaisteach) (70.125-70.450 MHz)	Reachtaíocht Náisiúnta: I.R. 192 de 2009		
5.149		5.149 EU2 EU4 EU27				

Colún 1

Colún 2

Colún 3

Colún 4

Colún 5

Colún 6

Colún 7

#### Míniú

- Colún 1:** Léiríonn na luachanna sa cholún seo an banda minicíochta raidió. Is iad na haonaid a úsáidtear sa cheannteideal colúin ná: is ionann kHz agus Ciliheirts, is ionann MHz agus Meigiheirts, agus is ionann GHz agus Gígeheirts.
- Colún 2:** Léiríonn an colún seo an cineál seirbhíse a leithdháileann an AIT ar an mbanda, m.sh. (SEASTA, SOGHLUAISTE). Tá an leithdháileadh seo sainmhínithe i Rialacháin Raidió an AIT. Leiríonn iontrálacha a dhéantar le CEANNLITREACHA seirbhísí príomha, agus léiríonn iontrálacha a dhéantar le litreacha beaga seirbhísí tánaisteacha mar atá sainmhínithe sna Rialacháin Raidió. Is ionann Fonótaí (m.sh. 5.149) agus na fonótaí a ghabhann leis an Tábla Leithdháilte Minicíochta mar atá sonraithe sna Rialacháin Raidió. Níl ach fonótaí a bhaineann le hÉirinn sa tábla seo, agus tá an téacs iomlán díobh ar taispeáint i gCaibidil 3 Agusín 1.
- Colún 3:** Léiríonn an colún seo an Leithdháileadh Comónta Eorpach le haghaidh an bhanda de réir Thuairisc ERC 025. Is ionann Tuairisc ERC 025 agus cuspóir straitéiseach CERPT tábla comhchuibhithe de leithdháileadh agus úsáid minicíochta a bhaint amach san Eoraip. Léiríonn iontrálacha a dhéantar le CEANNLITREACHA seirbhísí príomha, agus léiríonn iontrálacha a dhéantar le litreacha beaga seirbhísí tánaisteacha mar atá sainmhínithe sna Rialacháin Raidió.
- Colún 4:** Tugann an colún seo úsáid reatha náisiúnta an bhanda mhinicíochta in Éirinn le fios.
- Colún 5:** Sonraíonn an colún seo an reachtaíocht náisiúnta agus Eorpach a bhaineann leis an mbanda minicíochta.
- Colún 6:** Sonraíonn an colún seo na cinntí agus moltaí bainteacha de chuid CERPT a bhaineann leis an mbanda minicíochta.
- Colún 7:** Tugann an colún seo tagairtí bainteacha doiciméid, chomh maith le heolas breise eile a bhaineann leis an mbanda minicíochta.

Níl sa mhéid thíos ach sampla agus ní gá go léiríonn sé cás cruinn an bhanda mhinicíochta seo, rud atá tugtha sna táblaí mionsonraithe san fhoilseachán seo.

Banda Minicíochta (MHz)	Leithdháileadh agus Fonótaí an AIT a bhaineann le hÉirinn	Leithdháileadh Comónta Eorpach	Úsáid Náisiúnta	Reachtaíocht Náisiúnta agus Eorpach	Cinntí agus Moltaí Bainteacha de chuid CERPT	Nótaí
402 - 403	ÁISEANNA MEITÉAREOLAÍOCHA	ÁISEANNA MEITÉAREOLAÍOCHA	Áiseanna Meitéareolaíochta (Radiosondes)			
	TAISCÉALADH DOMHAIN-SATAILÍT (E/S)	TAISCÉALADH DOMHAIN-SATAILÍT (E/S)				
	MEITÉAREOLAÍOCH-SATAILÍT (E/S)	MEITÉAREOLAÍOCH-SATAILÍT (E/S)				
	Seasta					
	Seirbhís shoghluaiste seachas seirbhís aerloingseoireachta shoghluaiste					
				Gléasanna Gearr-Raoin	Reachtaíocht Náisiúnta: I.R. 405 de 2002 I.R. 160 de 2006  Cinneadh 2006/771/EC	ERC/DEC(01)17
		EU2				
<b>Colún 1</b>	<b>Colún 2</b>	<b>Colún 3</b>	<b>Colún 4</b>	<b>Colún 5</b>	<b>Colún 6</b>	<b>Colún 7</b>

Tugann an chéad cholún le fios gurb ionann an banda minicíochta agus an speictream ó 402-403 MHz.

Tugann an dara colún le fios go bhfuil an banda seo leithdháilte ag an AIT ar chúig sheirbhís, mar atá, áiseanna meitéareolaíoch, seirbhís Satailíte Taiscéalaíochta Domhain, satailít mheitéareolaíoch, an tseirbhís sheasta agus an tseirbhís shoghluaiste, gan an tseirbhís aerloingseoireachta shoghluaiste san áireamh. Tá an leithdháileadh ar áiseanna meitéareolaíoch, seirbhís satailíte Taiscéalaíochta Domhain agus na seirbhísí satailíte meitéareolaíoch a dhéanamh ar bhonn príomha, mar atá léirithe trí úsáid na gCEANNLITREACHA. Tá an leithdháileadh ar an tseirbhís sheasta agus ar an tseirbhís shoghluaiste á dhéanamh ar bhonn tánaisteach, ach amháin i gcás na seirbhíse aerloingseoireachta shoghluaiste. Ní chuirfidh seirbhísí tánaisteacha isteach ar sheirbhísí príomha, agus ní éileoidh siad cosaint ar chur isteach díobhálach ó sheirbhísí príomha, ach tá cead acu cosaint a éileamh ar stáisiúin eile den chineál céanna atá ina seirbhísí tánaisteacha eile a leithdháiltear minicíochtaí orthu ina dhiaidh sin.

Nuair a bhíonn fonóta le feiceáil ar an líne chéanna le seirbhís, tugann sé seo le fios go bhfuil an fonóta bainteach go díreach leis an tseirbhís a bhfuil sé ar aon líne léi. Bíonn fonótaí cineálacha (m.sh. EU2) le feiceáil ar rónna éagsúla leis na seirbhísí raidió liostaithe, ós rud é nach mbaineann siad leo go díreach.

Is féidir teacht ar Fhonótaí an AIT m.sh. 5.92 (nach bhfuil bainteach leis an sampla seo) atá luaite sna táblaí thíos, i gCaibidil 3, Aguisín 1 den doiciméad seo, fad is gur féidir teacht ar Fhonótaí Eorpacha i gCaibidil 3 Aguisín 2:

Luann an tríú colún an Leithdháileadh Comónta Eorpach le haghaidh an bhanda mhinicíochta mar atá mínithe i dTuarascáil ERC 0252.

Luann an ceathrú colún úsáid náisiúnta an bhanda minicíochta. Bíonn an banda ó 402 - 403 MHz in Éirinn á úsáid ag áiseanna meitéareolaíoch agus ag Gléasanna Gearr-Raoin.

Sonraíonn an cúigiú colún an reachtaíocht bhainteach náisiúnta agus Eorpach. Is ionann reachtaíocht phríomha in Éirinn agus achtanna, agus is ionann reachtaíocht thánaisteach agus Ionstraimí Reachtúla (I.R.)

Sonraíonn an séú colún cinntí nó moltaí bainteacha ar bith de CERPT a bhaineann leis an mbanda minicíochta. Is féidir na tagairtí seo a íoslódáil ó <http://www.ecodocdb.dk>.

Tá nótaí agus tagairtí bainteacha sa seachtú colún, amhail:

- Doiciméid bhainteacha an Choimisiúin, agus iad ar fáil le híoslódáil ó [www.comreg.ie](http://www.comreg.ie).
- Rannáin is infheidhme de Rialacháin Raidió an AIT m.sh. Aguisín 16 de na Rialacháin Raidió (ní bhaineann siad seo leis an sampla seo).
- Pleananna minicíochta réigiúnacha is infheidhme e.g. Plean an AIT i Stócólm in 1961 (ní bhaineann sé seo leis an sampla seo).



Tá an t-eolas atá sa doiciméad seo curtha ar fáil ag an gCoimisiún um Rialáil Cumarsáide agus é mar thuiscint gur chun críocha eolais amháin atá sé. Níl sé beartaithe a bheith mar bhonn le cinneadh infheistíochta ar bith, agus níor chóir breathnú air mar mholadh ó na Coimisinéirí nó óna gcomhairleoirí páirt a ghlacadh i dtairiscint ar bith le haghaidh leithdháileadh speictream raidió.

Ní dhéanann an Coimisiún um Rialáil Cumarsáide maíomh ar bith agus ní thugann sé barántas ar bith agus ní ghlacann sé le freagracht ar bith as cruinneas nó iomláine an eolais atá sa doiciméad seo, agus séantar dliteanas ar bith maidir lena leithéid d'eolas nó míchruinneas nó easnamh ar bith ar an doiciméad seo leis seo go sainráite.

Ba chóir d'fhaighteoirí an doiciméid seo i bhformáid ar bith a gcomhairle ghairmiúil, airgeadais, dlí nó eile féin a fháil ar mhaithe le measúnú neamhspleách a dhéanamh ar an luach féideartha ar leithdháileadh speictream raidió ar bith trí cibé modh is infheidhme. Tá sé mar pholasáí ag an gCoimisiún um Rialáil Cumarsáide an doiciméad a cheartú agus a nuashonrú go rialta.

Déantar tagairt do sheoltaí gréasáin ar fud an doiciméid seo ar mhaithe le caoithiúlacht amháin. Tabhair do d'aire, le do thoil, nach bhfuil an Coimisiún freagrach as ábhar na súiomhanna gréasáin seachtracha seo.

# 03

## Spectrum from 8.3 kHz to 27500 kHz





## 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. Commission Implementing Decision 2014/702/EU of 7 October 2014 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/legal-content/EN/TXT/PDF/?uri=CELEX:32014D0702&from=EN.pdf>
5. 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>
6. 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>
7. 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)
8. Wireless Telegraphy Act, 1926 (Number 45 of 1926). See <http://www.irishstatutebook.ie/1926/en/act/pub/0045/in>
9. Commission Decision 2006/771/EC of 09 November 2006 on harmonisation of the radio spectrum for use by short-range devices.

10. Commission Decision 2011/829/EU of 8 December 2011 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.
11. 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](http://www.comreg.ie/_fileupload/publications/SI193of2009.pdf)
12. 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](http://www.comreg.ie/_fileupload/publications/SI369of2009.pdf)

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 8.3	(Not Allocated) 5.53 5.54	Not Allocated				
8.3 -9	METEOROLOGICAL AIDS 5.54A	Meteorological aids	Lightning detector systems			
9 – 11.3	METEOROLOGICAL AIDS 5.54A	Meteorological aids	Lightning detector systems			
	RADIONAVIGATION	Radionavigation EU2				
11.3-14	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 (as revised)
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 (as advised)
	5.56 5.57	5.56 5.57 EU 2				
19.95 - 20.05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	Standard frequency and time (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 (as revised)

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
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 (as revised)
	5.56 5.57	5.56 5.57 EU2				
70 - 72	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation	S.I. 369 of 2009		See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
72 - 84	FIXED	FIXED				
	MARITIME MOBILE 5.57	MARITIME MOBILE 5.57				
	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 (as revised)
	5.56	5.56 EU2				
84 - 86	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation	S.I. 369 of 2009		See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				

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
86 - 90	FIXED	FIXED				
	MARITIME MOBILE 5.57	MARITIME MOBILE 5.57				
	RADIONAVIGATION	RADIONAVIGATION				
			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 (as revised)
	5.56	5.56 EU2				
90 - 110	RADIONAVIGATION 5.62	RADIONAVIGATION 5.62	Radionavigation	S.I. 369 of 2009		LORAN C system
	Fixed	Fixed				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		5.64	5.64 EU2			
110 - 112	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	RADIONAVIGATION	RADIONAVIGATION	Radionavigation	S.I. 369 of 2009		See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		5.64	5.64 EU2			



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
112 - 115	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation	S.I. 369 of 2009		See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
115 - 117.6	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 EU2	Radionavigation	S.I. 369 of 2009		See ComReg document 11/07
	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 (as revised)
	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 (as revised)
	5.64	5.64 EU2				
126 - 129	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60	Radionavigation	S.I. 369 of 2009		
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
		EU2				
129 - 130	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				
	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60				
	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 (as revised)
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 (as revised)
	5.64	5.64 EU2				
135.7 – 137.8	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE	Weather chart reception			
	Amateur 5.67A	Amateur 5.67A	Amateur			See ComReg document 02/05R7
	5.64		Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
137.8 - 148.5	FIXED	FIXED				
	MARITIME MOBILE	MARITIME MOBILE				

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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.64	5.64 EU2				
148.5 - 255	BROADCASTING	BROADCASTING	Broadcasting (AM Sound)	National Legislation: Broadcasting Act 2009		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 (as revised)
255 - 283.5	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		S.I. 369 of 2009		See ComReg document 11/07
	BROADCASTING	BROADCASTING	Broadcasting (AM Sound)	National Legislation: Broadcasting Act 2009		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 (as revised)
283.5 - 315	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Beacons (aeronautical)	S.I. 369 of 2009		GE85-EMA See ComReg document 11/07
	MARITIME RADIONAVIGATION (Radiobeacons) 5.73	MARITIME RADIONAVIGATION (Radiobeacons) 5.73	Beacons (Maritime including DGPS)	National Legislation: S.I. 414 of 2006 S.I. 369 of 2009		Transmission of DGPS signals GE85-EMA ITU-R M.823 and ITU-R M.588-1 See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
	5.74	5.74 EU2				
315 - 325	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation: Non-Directional Beacons	National Legislation: S.I. 855 of 2004 S.I. 369 of 2009		Annex 10 of the Convention on International Civil Aviation applies  See ComReg document 11/07
	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 (as revised)
		EU2				
325 - 405	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation: Non-Directional Beacons	National Legislation: S.I. 855 of 2004 S.I. 369 of 2009		Annex 10 of the Convention on International Civil Aviation applies  See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
405 - 415	RADIONAVIGATION 5.76	RADIONAVIGATION 5.76	Aeronautical radionavigation: Non-Directional Beacons	National Legislation: S.I. 855 of 2004 S.I. 369 of 2009		Annex 10 of the Convention on International Civil Aviation applies  See ComReg document 11/07

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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
415 - 435	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation: Non Directional Beacons	S.I. 369 of 2009		GE85-MM-R1 See ComReg document 11/07
	MARITIME MOBILE 5.79	MARITIME MOBILE 5.79	Maritime mobile (DSC)	National legislation:: S.I. 414 of 2006		GE85-MM-R1 See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
435 - 472	MARITIME MOBILE 5.79 5.82	MARITIME MOBILE 5.79 5.82	Maritime mobile	National legislation: S.I. 414 of 2006		GE85-MM-R1
						490 kHz used for national language transmissions
						455 – 457 kHz
	Aeronautical radionavigation	Aeronautical radionavigation		S.I. 369 of 2009		See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)  Detection devices for Avalanche Victims on 457 kHz
		EU2				

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
472-479	MARITIME MOBILE 5.79	MARITIME MOBILE 5.79				
	Amateur 5.80A	Amateur 5.80A				
	Aeronautical radionavigation 5.77	Aeronautical radionavigation 5.77				
	5.77 5.82	EU2				
479-495	MARITIME MOBILE 5.79 5.79A	MARITIME MOBILE	NAVTEX reception.			
	Aeronautical radionavigation 5.77	Aeronautical radionavigation				
	5.82	EU2				
495 - 505	MARITIME MOBILE	MOBILE	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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
505 - 526.5	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radio beacons (510-526.5 kHz)	S.I. 369 of 2009		GE85-MM-R1  See ComReg document 11/07
	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	ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
				S.I. 405 of 2002		
		EU2				
526.5 - 1606.5	BROADCASTING	BROADCASTING	Broadcasting (AM Sound)	National Legislation: Broadcasting Act 2009		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 (as revised)
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
		Radiolocation				
	5.92	5.92 EU2				
1625 - 1635	RADIOLOCATION	RADIOLOCATION	Radiolocation	S.I. 369 of 2009		See ComReg document 11/07
		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
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)

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
	5.92 5.96	5.92 5.96 EU2				
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 (as revised)
		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 (as revised)
	5.100	EU2 5.100				
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 (as revised).
	5.92 5.96 5.103	5.92 5.96 5.103 EU2				



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
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 (as revised)
	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 (as revised)
	5.92 5.103	5.92 EU2 5.103 5.104				
2045 - 2160	FIXED	FIXED	Maritime mobile	National legislation : S.I. 414 of 2006		
	LAND MOBILE	LAND MOBILE				
	MARITIME MOBILE	MARITIME MOBILE				GE85-MM-R1
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)
	5.92	5.92				

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
2160 - 2170	RADIOLOCATION	RADIOLOCATION	Radiolocation			
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)
		EU2				
2170 - 2173.5	MARITIME MOBILE	MARITIME MOBILE				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)
		EU2				
2173.5 - 2190.5	MOBILE (distress and calling)	MOBILE (distress and calling)	Maritime GMDSS	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 (as revised)
	5.108 5.109 5.110 5.111	5.108 5.109 5.110 5.111 EU2				
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 (as revised)
		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		

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		See ComReg document 02/71R (as revised)
	5.92 5.103	5.92 5.103 EU2				
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 (reception)			
2501 -2502	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard frequency and time (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 (as revised)
	5.92 5.103	5.92 5.103 5.103				
2625 - 2650	MARITIME MOBILE	MARITIME MOBILE	Maritime mobile	National legislation: S.I. 414 of 2006		International Intership Communications
	MARITIME	MARITIME				

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
	RADIONAVIGATION	RADIONAVIGATION				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)
	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 (as revised)
	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 S.I. 369 of 2009		ITU Radio Regulations Appendix 27 Allotment Plan  Annex 10 of the Convention on International Civil Aviation applies  See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)
	5.111 5.115	5.111 5.115				
3025 - 3155	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical mobile (government services)			ITU Radio Regulations Appendix 26 Allotment Plan

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		See ComReg document 02/71R (as revised)
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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.116	5.116 EU2				
3200 - 3230	FIXED	FIXED EU2				
	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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.116	5.116 EU2				
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	ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
	5.116	5.116 EU2				
3400 - 3500	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical mobile, Fixed HF stations	National Legislation: S.I. 855 of 2004 S.I. 369 of 2009		ITU Radio Regulations Appendix 27 Allotment Plan including HF data links.  Annex 10 of the Convention on International Civil Aviation applies  See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		See ComReg document 02/71R (as revised)
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 (as revised)
	5.92	5.92 EU2				
3800 - 3900	FIXED	FIXED				
	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				ITU Radio Regulations Appendix 26 Allotment Plan
	LAND MOBILE	LAND MOBILE				

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
		EU2				
3900 - 3950	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical mobile (government services)			ITU Radio Regulations Appendix 26 Allotment Plan
3950 - 4000	FIXED	FIXED				
	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception)			
		EU2				
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 5.130 5.131 5.132	MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 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 4208 kHz, 4208.5 kHz, 4209 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

## 8.3 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
						navigation warnings on 4209.5 kHz. Telex Distress Traffic on 4177.5 kHz NAVTEX on 4209.5KHz 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 (as revised)
	5.128	5.128 EU2				
4438 - 4488	FIXED	FIXED	Fixed (government services)			
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
	RADIOLOCATION 5.132A	RADIOLOCATION 5.132A				
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
4488-4650	FIXED	FIXED				
	MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)				
		EU2				
4650 - 4700	AERONAUTICAL MOBILE	AERONAUTICAL MOBILE	Aeronautical mobile	National Legislation:		ITU Radio Regulations



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
	(R)	(R)	(government services), Fixed HF stations	S.I. 855 of 2004		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				
4995 - 5003	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	Standard frequency and time (reception)			
5003 - 5005	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard frequency and time (reception)			
	Space Research	Space Research				

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
5005 - 5060	FIXED	FIXED				
	BROADCASTING 5.113	EU2				
5060 - 5250	FIXED	FIXED	Fixed			
	Mobile except Aeronautical mobile	Mobile except Aeronautical mobile				
	5.133	EU2				
5250 - 5275	FIXED	FIXED	Fixed (government services)			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	Radiolocation 5.132A	RADIOLOCATION 5.132A				
		EU2				
5275-5450	FIXED	FIXED				
	MOBILE except Aeronautical mobile Amateur 5.133B	MOBILE except Aeronautical mobile Amateur 5.133B EU2	Amateur (5351.5-5366.5 kHz)			Amateur (5351.5-5366.5 kHz)
5450 - 5480	FIXED	FIXED				
	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				
	LAND MOBILE	LAND MOBILE				

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
		EU2				

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, SAR (communications)	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 Act 2009		ITU Radio Regulations Article 12 Planning Procedure
	5.136	5.136				
5950 - 6200	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		ITU Radio Regulations Article 12 Planning Procedure
6200 - 6525	MARITIME MOBILE 5.109 5.110 5.130 5.132	MARITIME MOBILE 5.109 5.110 5.130 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 6312.5

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
						<p>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>
	5.137	5.137 EU2				
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.
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	ERC/REC 70-03	See ComReg document 02/71R (as revised)

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	
	5.138	5.138 EU2					
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		Amateur operation on a secondary basis.	
			Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		ITU Radio Regulations Article 12 Planning Procedure	
7200 – 7300	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		ITU Radio Regulations Article 12 Planning Procedure	
7300 - 7400	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 Act 2009		ITU Radio Regulations Article 12 Planning Procedure	
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002		ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.143B	5.143B					
7450 - 8100	FIXED	FIXED	Fixed				
	Mobile except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)					

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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
8195 - 8815	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		<p>ITU Radio Regulations Appendix 17 Channelling Plan and Appendix 25 Allotment Plan.</p> <p>DSC Calling on 8415 kHz, 8415.5 kHz, 8416 kHz, 8437 kHz, 8437.5 kHz.</p> <p>DSC distress traffic on 8414.5 kHz.</p> <p>Survival craft stations on 8364 kHz</p> <p>Maritime Safety Information on 8416.5 kHz.</p> <p>Telex Distress Traffic on 8376.5 kHz.</p> <p>Telephony distress traffic and calling by rescue</p>

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
						centres on 8291 kHz.
			Short Range Devices	National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised).
	5.111	5.111 EU2				
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 - 9305	FIXED	FIXED	Fixed			
		EU2				
9305-9355	FIXED	FIXED				
	Radiolocation 5.145A	Radiolocation				
		EU2				
9355-9400	FIXED	FIXED				
		EU2				



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 Act 2009		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 Act 2009		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 (reception)			
	5.111	5.111				
10003 - 10005	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard frequency and time (reception)			
	Space Research	Space Research				
	5.111	5.111				
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.
	5.111	5.111				Annex 10 of the Convention on International Civil Aviation

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
10100 - 10150	FIXED	FIXED				
	Amateur	Amateur	Amateur (secondary)	National Legislation: S.I. 192 of 2009		
		EU2				
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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
11175 - 11275	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Aeronautical mobile (government service), Fixed HF stations	National Legislation: S.I. 855 of 2004 S.I. 369 of 2009		ITU Radio Regulations Appendix 26 Allotment Plan and Annex 10 of the Convention on International Civil Aviation  See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
11275 - 11400	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical mobile (government service), Fixed HF stations	National Legislation: S.I. 855 of 2004 S.I. 369 of 2009		ITU Radio Regulations Appendix 27 Allotment Plan, including HF data links. Annex 10 of the Convention on International Civil Aviation  See ComReg document 11/07

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
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 (as revised)
		EU2				
11600 - 11650	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)
	5.146	5.146				
11650 - 12050	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)
	5.147	5.147				
12050 - 12100	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)
	5.146	5.146				

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
12100 - 12230	FIXED	FIXED	Fixed			
		EU2				
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 (as revised)
			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.

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. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
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 (as revised)
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 (as revised)
	5.149	5.149 EU2				
13410 - 13450-	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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.150	5.150 EU2				

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
13450-13550	FIXED					
	Mobile except aeronautical mobile (R)					
	Radiolocation 5.132A 5.149A					
13550-13570	FIXED					
	Mobile except aeronautical mobile (R )					
	5.150					
13570 - 13600	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)
	5.151	5.151				
13600 - 13800	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)
13800 - 13870	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception)	National Legislation: Broadcasting Act 2009		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 (as revised)

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
	5.151	5.151				
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 (as revised)
		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 (as revised)
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 (as revised)
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 (as revised)
		EU2				

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
14990 - 15005	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	Standard frequency and time (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 (as revised)
	5.111	5.111				
15005 - 15010	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard frequency and time (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 (as revised)
	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 (as revised)
15100 - 15600	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)
15600 - 15800	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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 (as revised)



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
	5.146	5.146				
15800 - 16100	FIXED	FIXED				
		EU2				
16100-16200	FIXED Radiolocation 5.145A	FIXED				
		Radiolocation				
		EU2				
16200 -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	ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
				S.I. 160 of 2006		
		EU2				
17410 - 17480	FIXED	FIXED				
		EU2				
17480 - 17550	BROADCASTING 5.134	BROADCASTING 5.134	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		ITU Radio Regulations Article 12 Planning Procedure
	5.146	5.146				
17550 - 17900	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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				

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
		EU2				
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 Act 2009		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

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
						Information on 19680.5 kHz
		EU2				
19800 - 19990	FIXED	FIXED				
		EU2				
19990 - 19995	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard frequency and time (reception)			
	Space Research	Space Research	Search and Rescue applications (reception)			19993 kHz ( $\pm 3$ kHz) concerning manned space vehicles.
	5.111	5.111				
19995 - 20010	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz)	Standard frequency and time (reception)			
	5.111	5.111				
20010 - 21000	FIXED	FIXED				
	Mobile	Mobile				
		EU2				
21000 - 21450	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-satellite			
21450 - 21850	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		ITU Radio Regulations Article 12 Planning Procedure

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
21850 - 21870	FIXED	FIXED				
		EU2				
21870 - 21924	FIXED 5.155B	FIXED 5.155B				
		EU2				
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				

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
	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)				
23350 - 24000	FIXED	FIXED				
	MOBILE except aeronautical mobile 5.157	MOBILE except aeronautical mobile 5.157				
		EU2				
24000 - 24450	FIXED	FIXED				
	LAND MOBILE	LAND MOBILE				
		EU2				
24450-24600	FIXED	FIXED				
	LAND MOBILE	LAND MOBILE				
	Radiolocation 5.132A	Radiolocation				
		EU2				
24600-24890	FIXED	FIXED				
	LAND MOBILE	LAND MOBILE				
		EU2				

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
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 (reception)			
25005 - 25010	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL	Standard frequency and time (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				
25210 - 25550	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
		EU2				

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
25550 - 25670	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149	5.149				
25670 - 26100	BROADCASTING	BROADCASTING	Shortwave broadcasting (reception only)	National Legislation: Broadcasting Act 2009		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				
26175-26200	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Paging (private, on-site)			See ComReg document 02/12R
			Short Range Devices	National Legislation: S.I.; 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg 02/71R (as revised)
		5.150 EU2				



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
26200 - 26350	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	Radiolocation 5.132A	Radiolocation				
		EU2				
26350 - 27500	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				See ComReg document 02/12R
			Citizen Band radio (26.960 - 27.410 MHz.)	National Legislation: S.I. 436 of 1998	ECC/DEC/(11)03	
				National Legislation: S.I. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised).
	5.150	5.150 EU2				





## 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 2006/771/EC of 09 November 2006 on harmonisation of the radio spectrum for use by short-range devices
3. 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)
4. 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>
5. Commission Implementing Decision 2014/702/EU of 7 October 2014 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/legal-content/EN/TXT/PDF/?uri=CELEX:32014D0702&from=EN.pdf>
6. Commission Decision 2011/829/EU of 8 December 2011 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.
7. ECC Decision (06)04 of 24 March 2006 amended 06 July 2007 and 09 December 2011 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>
8. 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)

9. Wireless Telegraphy Act, 1926 (Number 45 of 1926). See <http://www.irishstatutebook.ie/1926/en/act/pub/0045/index.html>
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](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](http://www.comreg.ie/_fileupload/publications/SI369of2009.pdf)

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 (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 (as revised)
		EU2				
30.005 - 30.01	MOBILE	MOBILE	Mobile (government services)			
	FIXED		Fixed			
	SPACE OPERATION (satellite identification)					
	SPACE RESEARCH					

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. 160 of 2006 S.I. 405 of 2002	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
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 (as revised)
		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 (as revised)
	5.149	EU2				
38.25 - 39	FIXED		Fixed (government services)			
	MOBILE	MOBILE			Recommendation T/R 25-08	

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. 410 of 1997 S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		EU2				
39 - 39.5	FIXED	FIXED	Fixed (government services)			
	MOBILE	MOBILE	Mobile (government services)			
	Radiolocation 5.132A	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 (as revised)
		EU2				
39.5 – 39.986	FIXED					
	MOBILE	MOBILE				
		EU2				
39.986 - 40.02	FIXED					
	MOBILE	MOBILE				
	Space research	Space research				
		EU2				



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
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 2011/829/EU	ERC/DEC/(01)12 ERC/REC 70-03	See ComReg document 02/71R (as revised)
	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 (as revised)
		EU2				
41.015 - 42	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 (as revised)
		EU27				

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
42 – 42.5	FIXED	FIXED				
	MOBILE	MOBILE				
	Radiolocation	Radiolocation				
	5.161B	EU27				
42.5 – 44	FIXED					
	MOBILE	MOBILE				
		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 (as revised)
	5.162A	EU27				
47 - 68	BROADCASTING					ST61 Plan: Television broadcasting ceased.
		LAND MOBILE			Recommendation T/R 25-08	
		Amateur	Amateur (secondary)	National Legislation: S.I. 192 of 2009		Amateur (50-52 MHz)
			Radiolocation			Wind profiler radar – ITU

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
			(secondary) (46-68 MHz)			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 (as revised)
	5.162A 5.164	EU2 EU3				
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 and 08/08R (as revised) 00/07Ra and 00/07R (as revised)
		Radio Astronomy				
			Amateur (secondary) (70.125-70.450 MHz)	National Legislation: S.I. 192 of 2009		
	5.149	EU2 EU4 EU9 EU27				
74.8 - 75.2	AERONAUTICAL RADIONAVIGATION 5.180	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation	S.I. 369 of 2009		ILS/Marker Beacons Annex 10 to the Convention on International Civil Aviation.
75.2 - 87.5	FIXED					See ComReg document 11/07
	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	ECC/DEC/(06)06 Recommendation T/R 25-08	ComReg Documents: 02/02R and 08/08R (as revised) 00/07Ra and 00/07R (as revised)

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
				amended. S.I. 435 of 2002 S.I. 83 of 1988		02/03R and 08/08.
		EU2 EU27 (77.8 – 84.6 MHz)				
87.5 - 100	BROADCASTING	BROADCASTING	Broadcasting (FM Sound)	National Legislation: Broadcasting Act 2009	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 2011/829/EU	ERC/REC 70-03	See ComReg document 02/71R (as revised)
100 - 108	BROADCASTING	BROADCASTING	Broadcasting (FM Sound)	National Legislation: Broadcasting Act 2009	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 2011/829/EU	ERC/REC 70-03	See ComReg document 02/71R (as revised)
108 - 117.975	AERONAUTICAL RADIONAVIGATION 5.197A	AERONAUTICAL RADIONAVIGATION 5.197A	Aeronautical radionavigation: Instrument Landing Systems (ILS), localisers (108-112 MHz) and VHF Omnidirectional Radio Range (VOR) navigation	S. I. 369 of 2009		Annex 10 to the Convention on International Civil Aviation  See ComReg document 11/07.

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)	AERONAUTICAL MOBILE (R)	Aeronautical radionavigation: Air-ground-air communications (ATC) (118-137 MHz)	S.I. 369 of 2009		Annex 10 to the Convention on International Civil Aviation.  See ComReg document 11/07
			Aeronautical emergency frequency (121.5 MHz) Auxiliary frequency (121.5-123.1 MHz)			
			VHF Omnidirectional Radio Range (VOR) navigation (112-118 MHz)			
	5.111 5.200		Maritime mobile: EPIRBs (121.5 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 (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)				
	MOBILE-SATELLITE (space to Earth) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space to Earth)	Satellite personal communication service		ERC/DEC/(99)06	
	SPACE RESEARCH (space to Earth)	Space research (space to Earth)				
	SPACE OPERATION (space to Earth)	Space operation (space to Earth)				
	Fixed					
	Mobile except aeronautical mobile (R)	MOBILE				

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
	5.208					

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 (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)				
	SPACE OPERATION (space to Earth)	Space operation (space to Earth)				
	SPACE RESEARCH (space to Earth)	Space research (space to Earth)				
	Mobile-Satellite (space to Earth) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space to Earth)	Satellite personal communication service		ERC/DEC/(99)06	
	Fixed					
	Mobile except aeronautical mobile (R)	MOBILE				
5.208 5.208A 5.208B 5.209						
137.175 - 137.825	METEOROLOGICAL-SATELLITE (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)	Meteorological-satellite (space to Earth) (LEO reception)			
	MOBILE-SATELLITE (space to Earth) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space to Earth) 5.208A 5.208B 5.209	Satellite personal communication service		ERC/DEC/(99)06	
	SPACE OPERATION (space to Earth)	Space operation (space to Earth)				
	SPACE RESEARCH (space to Earth)	Space research (space to Earth)				
	Fixed					
	Mobile except aeronautical mobile (R)	MOBILE				
5.208						

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 (space to Earth)	Space operation (space to Earth)				
	METEOROLOGICAL-SATELLITE (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)	Meteorological-satellite (LEO reception)		ERC/DEC/(99)06	
	SPACE RESEARCH (space to Earth)	Space research (space to Earth)				
	Mobile–Satellite (space to Earth) 5.208A 5.208B 5.209	Mobile–Satellite (space to Earth)				
	Fixed					
	Mobile except aeronautical mobile (R)	MOBILE				
	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 00/07Ra 00/007R (as revised) and 02/12R
		Space research (space to Earth)				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.211	EU2 EU27				
143.6 - 143.65	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)				



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
	SPACE RESEARCH (space to Earth)	SPACE RESEARCH (space to Earth)				
		LAND MOBILE	VHF Mid band: Land mobile PMR, paging	National Legislation: Wireless Telegraphy (Business Radio Licence) Regulations 1949 as amended		See ComReg documents 00/07R (as revised) 02/02R3 and 02/12R
	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 00/07Ra amd 00/07R (as revised) 02/12R
	5.211	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 00/07Ra amd 00/07R (as revised) 02/12R
148 - 149.9	FIXED					
	MOBILE except aeronautical mobile (R)	MOBILE	VHF Mid band: Land mobile PMR, paging	National Legislation: Wireless Telegraphy (Business Radio Licence)	ECC/DEC/(06)06 Recommendation T/R 25-08	See ComReg documents 00/07Ra amd 00/07R (as revised) 02/12R

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
				Regulations 1949 as amended.		
	MOBILE-SATELLITE (Earth to space) 5.209	MOBILE-SATELLITE (Earth to space)	Satellite personal communication service		ERC/DEC/(99)06	
	5.218 5.219 5.221					
149.9 - 150.05	RADIONAVIGATION-SATELLITE 5.224B	RADIONAVIGATION-SATELLITE				
	MOBILE-SATELLITE (Earth to space) 5.209 5.224A	MOBILE-SATELLITE (Earth to space)	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					
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 00/07Ra amd 00/07R (as revised) 02/12R
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149					
153 - 154	FIXED					

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 (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 00/07Ra amd 00/07R (as revised) 02/12R
	Meteorological aids					

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
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 00/07Ra amd 00/07R (as revised) 02/12R
	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 00/07Ra amd 00/07R (as revised) 02/12R
	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 00/07Ra amd 00/07R (as revised) 02/12R
	5.226					ITU Radio Regulations Appendix 18

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 - 156.7875	MARITIME MOBILE	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
	Mobile-satellite (Earth to space) 5.111 5.226 5.228					
			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 00/07Ra amd 00/07R (as revised) 02/12R
	5.111 5.226 5.228					
156.7875 – 156-8125	MARITIME MOBILE (distress and calling)  5.111 5.226		Maritime mobile coast stations (156-163 MHz)			
156.8125 156.8375	MARITIME MOBILE	MARITIME MOBILE	Maritime mobile coast stations (156-163 MHz)			
	Mobile-satellite (Earth to space) 5.111 5.226 5.228					
156.8375 - 161.9625	FIXED		Fixed			
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Maritime mobile coast stations (156-163 MHz)			See ComReg documents 00/07Ra amd 00/07R (as revised) 02/12R
				S.I. 369 of 2009		ITU Radio Regulations Appendix 18

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
						See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2005/928/EC	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.226					
161.9625 – 161.9875	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Maritime mobile Coastal Stations			
	Mobile –satellite (Earth to space) 5.228F		AIS (161.975 & 162.025 MHz reserved)	S.I. 369 of 2009		See ComReg document 11/07
	5.226 5.228F 5.228A 5.228B					
161.9875-162.0125	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	Maritime mobile satellite (Earth to space) 5.228AA					Maritime mobile satellite (Earth to space) (161.9875-162.0125 MHz)
	5.226					

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
162.0125 – 162.0375	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	AIS (161.975 & 162.025 MHz reserved)			
	Mobile–satellite (Earth to space) 5.228F					
	5.226 5.228A 5.228B 5.228F					
162.0375 -174	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Land mobile (VHF high band between 163-174 MHz), Maritime radionavigation (162.4375-162.4625 and 163.0125-163.03125 MHz)	S.I. 369 of 2009		See ComReg Document 11/07
	5.226					
174 - 223	BROADCASTING	BROADCASTING	Broadcasting: Television (DVB-T), sound (T-DAB)	National Legislation: Broadcasting Act 2009		GE06 Agreements.  The Wiesbaden, 1995, Special Arrangement as revised in Constanta 2007 (WI95revCO07)
		LAND MOBILE				See ComReg Document 02/02R and 08/08R(as revised)
			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 (as revised)
	5.235					

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
223 - 230	BROADCASTING	BROADCASTING	Broadcasting: Television (DVB-T), sound (T-DAB)	National Legislation: Broadcasting Act 2009		GE06 Agreements.
	Fixed					
	Mobile	Land mobile				See ComReg Document 02/02R and 08/08R(as revised)
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
		EU10				
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



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
						Air 242.9–243.1 SARSAT uplink  Annex 10 to the Convention on International Civil Aviation.
		MOBILE-SATELLITE (Earth to space)				242.9–243.1 MHz SARSAT uplink
			Maritime mobile: EPIRBs (243 MHz) and Naval inter-ship 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 5.254 5.256 EU10 EU27				
267 - 272	FIXED		Fixed			
	MOBILE	MOBILE	Aeronautical UHF communications (225-400 MHz)			
	Space operation (space to Earth)					
						Annex 10 to the Convention on International Civil Aviation.
	5.254 5.257	5.254 5.257 EU10 EU27				
272 - 273	SPACE OPERATION (space to Earth)					

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
	FIXED					
	MOBILE	MOBILE				
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	EU10 EU27				
273 - 312	FIXED					
	MOBILE	MOBILE	Mobile: Emergency Search & Rescue (position fixing)			
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	EU10 EU27				
312 - 315	FIXED					
	MOBILE	MOBILE				
	Mobile-satellite (Earth to space) 5.254 5.255		Satellite personal communication system		ERC/DEC/(99)06	
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
		EU10				

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
		EU27				
315 - 322	FIXED					
	MOBILE	MOBILE				
	5.254	EU10 EU27	Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
322 - 328.6	FIXED					
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149	EU10 EU27	Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
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)	S.I.. 369/2009		Annex 10 to the Convention on International Civil Aviation. See ComReg Document 11/07
		EU2				
335.4 - 387	FIXED					
	MOBILE	MOBILE	Mobile: Trunked Radio TETRA (Emergency)	National Legislation: S.I. 324 of 2008	ECC/DEC/(08)05 ECC/DEC/(06)05	See ComReg document 08/67.

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
			(380-385 and 390-395 MHz) TETRA (Civil) (385-389.9 and 395-399.9 MHz)	National Legislation: S.I. 435 of 2002	ERC/DEC/(01)19 Recommendation T/R 25-08	
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	EU2 EU10 EU27				
387 - 390	FIXED					
	MOBILE	MOBILE	Mobile: Trunked Radio TETRA (Civil) (385-389.9 and 395-399.9 MHz)	National Legislation: S.I. 435 of 2002	ERC/DEC/(01)19 Recommendation T/R 25-08	Secondary Basis Only. See ComReg document 08/67.
	Mobile-satellite (space to Earth) 5.208A 5.208B 5.254 5.255		Satellite personal communication system		ERC/DEC/(99)06	
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
		EU2 EU10 EU27				
390 - 399.9	FIXED					
	MOBILE	MOBILE	Mobile: Trunked Radio TETRA(Emergency) (380-385 and 390-395 MHz) TETRA(Civil) (385-390 and 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  Recommendation T/R 25-08	See ComReg document 08/67.

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
			Aeronautical UHF communications (225-400 MHz)			Annex 10 to the Convention on International Civil Aviation.
	5.254	EU2 EU10 EU27				
399.9 - 400.05						
	MOBILE-SATELLITE (Earth to space) 5.209	MOBILE-SATELLITE (Earth to space)	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					
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 (reception)			
	5.261					
400.15 - 401.00						
	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological aids (radiosondes)			
	METEOROLOGICAL-SATELLITE (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)				
	SPACE RESEARCH (space to Earth)	SPACE RESEARCH (space to Earth)				
	MOBILE-SATELLITE (space to Earth) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space to Earth)	Satellite personal communication system		ERC/DEC/(99)06	

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
	Space operation (space to Earth) 5.262	Space operation (space to Earth)				
	5.264					
401 - 402	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological aids (radiosondes)			
	SPACE OPERATION (space to Earth)					
	EARTH EXPLORATION-SATELLITE (Earth to space)	EARTH EXPLORATION-SATELLITE (Earth to space)				
	METEOROLOGICAL SATELLITE (Earth to space)	METEOROLOGICAL SATELLITE (Earth to space)				
	Fixed					
	Mobile except aeronautical mobile					
				Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03
		EU2				
402 - 403	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological aids (radiosondes)			
	EARTH EXPLORATION-SATELLITE (Earth to space)	EARTH EXPLORATION-SATELLITE (Earth to space)				
	METEOROLOGICAL-SATELLITE (Earth to space)	METEOROLOGICAL-SATELLITE (Earth to space)				

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
	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 2011/829/EU	ERC/DEC/(01)17	See ComReg document 02/71R (as revised)
		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 2011/829/EU	ERC/DEC/(01)17 ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.265	EU 2				
406 - 406.1	MOBILE-SATELLITE (Earth to space)	MOBILE-SATELLITE (Earth to space)	EPIRBs (emergency beacons) ELT:406.025MHz (5w)	European Legislation: Decision 2005/631/EC		COSPAS/SARSAT – This band is only available for distress and safety purposes.
			Personal Locator Beacons (PLB)	S.I. 290 of 2010		

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
	5.266 5.267					
406.1 - 410	FIXED					
	MOBILE except aeronautical mobile	LAND MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	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	
	SPACE RESEARCH (space to space) 5.268		-			
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				
430 - 432	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		



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
	RADIOLOCATION	RADIOLOCATION	Radiolocation	S.I. 369 of 2009		See ComReg document 11/07
		EU2 EU12				
432 - 438	AMATEUR	AMATEUR	Amateur	S.I. 192 of 2009		
		AMATEUR-SATELLITE				
	RADIOLOCATION	RADIOLOCATION	Radiolocation	S.I. 369 of 2009		See ComReg document 11/07
	Earth exploration-satellite (active) 5.279A	Earth exploration-satellite (active)				
		Land mobile				
				Short Range Devices	National Legislation: S.I. 405 of 2005 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2011/829/EU	ERC/REC 70-03
	5.138	EU2 EU12				
438 - 440	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		
	RADIOLOCATION	RADIOLOCATION	Radiolocation	S.I. 369 of 2009		
		EU2 EU12				
440 - 450	FIXED					
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Land mobile	National Legislation: Wireless Telegraphy	ECC/DEC/(06)06 T/R 25-08	See documents 00/07aR and 00/07R (as revised)

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
				(Business Radio Licence) Regulations 1949 as amended		02/02R and 08/08R (as revised)
			Land mobile: PMR 446 (446-446.1 MHz)	National Legislation: S.I. 93 of 1998	ECC/DEC/(15)05	
			Digital PMR446 (446.1-446.2 MHz)	National Legislation: S.I. 160 of 2006	ECC/DEC/(15)05	
	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 (as revised)
	5.286	EU31				
450 - 455	FIXED					
	MOBILE	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 00/07aR and 00/07R (as revised) 02/02R and 08/08R (as revised) 02/03R
	5.209 5.286 5.286A	EU31				
455 - 456	FIXED					
	MOBILE	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	ECC/DEC/(06)06 ECC/DEC/(04)06 Recommendation T/R 25-08	See documents 00/07aR and 00/07R (as revised) 02/02R and 08/08R (as revised) 0212R

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
	5.209 5.286A	EU31		S.I. 83 of 1988		
456 - 459	FIXED					
	MOBILE	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 00/07aR and 00/07R (as revised) 02/02R and 08/08R (as revised)
			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 (as revised)  ECG monitoring only between 458.6375 – 458.8375 MHz.  Avalanche beacons 457 MHz
	5.287	5.287 EU31				
459 - 460	FIXED					
	MOBILE	MOBILE	Land mobile: PMR UHF band, on-site 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 00/07aR and 00/07R (as revised) 02/02R and 08/08R (as revised)  Note: ECG monitoring only in adjacent band 458.6375 –

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
	5.209 5.286A	EU31				458.8375 MHz.
460 - 470	FIXED					
	MOBILE	MOBILE	Land mobile PMR (government services, commercial, local authorities) and community repeaters	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 00/07aR and 00/07R (as revised) 02/02R and 08/08R (as revised) 02/03R, 02/12R
			Wide-area paging (469.85-470 MHz)			
			On-board ship communications	National Legislation: S.I. 414 of 2006		
	Meteorological-Satellite (space to Earth)					
	5.287 5.289	5.287 5.289 EU31				

See ComReg document 20/17 where this table has been updated.

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
790 - 862	BROADCASTING	BROADCASTING				GE06 Agreements. 08/08R (as revised)
	MOBILE except aeronautical mobile 5.316B 5.317A	MOBILE except aeronautical mobile 5.316B 5.317A	MOBILE LIBERALISED USE (791-821 and 832-862MHz)	National Legislation : S.I. 251 of 2012 2010/267/EU	ECC/REC/(11)04 ECC/DEC/(09)03	See ComReg Documents 12/52 ;13/55
		EU2 EU13		National Legislation : S.I. 34 of 2014		

See ComReg document 20/17 where this table has been updated.

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
<p>See ComReg document 20/17 where this table has been updated.</p>						

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
<p>See ComReg document 20/17 where this table has been updated.</p>						

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
<p>See ComReg document 20/17 where this table has been updated.</p>						
960 - 1164	AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION 5.328	Aeronautical radionavigation: Distance Measuring equipment and secondary surveillance radar (960-1215 MHz)	S.I. 369 of 2009		Annex 10 to the Convention on International Civil Aviation.  See ComReg document 11/07
	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)	S.I. 369 of 2009		Annex 10 to the Convention on International Civil Aviation.  See ComReg document 11/07
	RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.328B  5.328A	RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.328A 5.328B				
1215 - 1240	EARTH EXPLORATION-SATELLITE (Active)	EARTH EXPLORATION-SATELLITE (Active)				



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
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.329 5.329A 5.328B	RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.329 5.329A 5.328B	Radionavigation: Radar, navigation systems and active sensors, GPS, Galileo and GLONASS			
	SPACE RESEARCH (Active)	SPACE RESEARCH (Active)				
			Amateur (secondary)			
	5.331 5.332	5.331 EU2 5.332				
1240 - 1300	EARTH EXPLORATION-SATELLITE (Active)	EARTH EXPLORATION-SATELLITE (Active)				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.328B 5.329 5.329A	RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.328B 5.329 5.329A	Radionavigation: Radar, navigation systems, active sensors, GLONASS and Galileo			
	SPACE RESEARCH (Active)	SPACE RESEARCH (Active)				
	Amateur	Amateur	Amateur (secondary)			
		Amateur-satellite (1260-1270 MHz)				
	5.282 5.331 5.332 5.335A	EU2				

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 (Earth to space)	RADIONAVIGATION-SATELLITE (Earth to space)	Radio navigation systems			
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006		See ComReg document 02/71R (as revised)
	5.149 5.337A	5.149 EU2 5.337A				
1350 - 1400	FIXED	FIXED	Fixed: Point-Point radio 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				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006		See ComReg document 02/71R (as revised)
	5.149 5.339 5.338A	5.149 EU2 5.338A EU15 5.339				
1400 - 1427	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)		ECC/DEC/(11)01		
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341	5.340 5.341				

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
<p>See ComReg document 20/17 where this table has been updated.</p>						

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
See ComReg document 20/17 where this table has been updated.						
1518 - 1525	FIXED	FIXED				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	MOBILE-SATELLITE (space to Earth) 5.348A 5.348B 5.351A	MOBILE-SATELLITE (space to Earth) 5.348 5.348A 5.348B			ECC/DEC/(04)09	
	5.341	5.341 EU2 EU15				
1525 - 1530	SPACE OPERATION (space to Earth)	SPACE OPERATION (space to Earth)				Inmarsat-D and Mini-M, EMS-MSSAT and EMS PRODAT terminals
	FIXED	FIXED				
	MOBILE-SATELLITE (space to Earth) 5.208B 5.351A	MOBILE-SATELLITE (space to Earth) 5.351A	Mobile-satellite	National Legislation: S.I. 398 of 2001 S.I. 128 of 2005		
			Maritime mobile satellite (S/E), Search and Rescue (SAR) satellite systems including GMDSS	S.I. 343 of 2008		
	Earth Exploration-Satellite					
	Mobile except aeronautical					

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					
	5.341 5.351 5.354	5.341 5.351 5.354				
1530 - 1535	SPACE OPERATION (space to Earth)	SPACE OPERATION (space to Earth)				
	MOBILE-SATELLITE (space to Earth) 5.351A 5.353A	MOBILE-SATELLITE (space to Earth) 5.351A 5.353A	Maritime mobile-satellite (space to Earth), 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		
	Earth Exploration-Satellite	Earth exploration-satellite				
	Fixed	Fixed				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
	5.341 5.351 5.354	5.341 5.351 5.354				
1535 - 1559	MOBILE-SATELLITE (space to Earth) 5.208B 5.351A	MOBILE-SATELLITE (space to Earth) 5.351A	Maritime mobile-satellite (space to Earth)  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 SARSAT Downlink
	5.341 5.351 5.353A 5.354 5.356 5.357 5.357A	5.341 5.351 5.353A 5.354 5.356 5.357 5.357A				

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 (space toEarth) (space to space)5.208B 5.328B 5.329A	RADIONAVIGATION–SATELLITE (space toEarth) (space to space) 5.328B 5.329A				
	5.341	5.341				
1610 - 1610.60	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation, GLONASS			
	MOBILE–SATELLITE (Earth to space) 5.351A	MOBILE–SATELLITE (Earth to space) 5.351A	Satellite personal communications service	National Legislation: S.I. 214 of 1998	ECC/DEC/(09)02 ECC/DEC/(12)01	
	5.341 5.364 5.366 5.367 5.368 5.371 5.372	5.341 5.364 5.366 5.367 5.368 5.371 5.372				
1610.60 - 1613.80	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation, GLONASS			
	MOBILE–SATELLITE (Earth to space) 5.351A	MOBILE–SATELLITE (Earth to space) 5.351A	Satellite personal communications service	National Legislation: S.I. 214 of 1998	ECC/DEC/(09)02 ECC/DEC/(12)01	
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.341	5.149 5.341				

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
	5.364 5.366 5.367 5.368 5.371 5.372	5.364 5.366 5.367 5.368 5.371 5.372				
1613.80 - 1626.50	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Aeronautical radionavigation, GLONASS			
	MOBILE-SATELLITE (Earth to space) 5.351A	MOBILE-SATELLITE (Earth to space) 5.351A	Satellite personal communications service	National Legislation: S.I. 214 of 1998	ECC/DEC/(09)02 ECC/DEC/(09)04  ECC/DEC/(12)01	
	Mobile-satellite (space to Earth) 5.208B	Mobile-satellite (space to Earth) 5.208B				
	5.341 5.364 5.365 5.366 5.367 5.368 5.371 5.372	5.341 5.364 5.365 5.366 5.367 5.368 5.371 5.372				
1626.50 - 1660.00	MOBILE-SATELLITE (Earth to space) 5.351A	MOBILE-SATELLITE (Earth to space) 5.351A	Maritime mobile satellite (Earth to space) , 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		ERC/REP 25
	5.341 5.351 5.353A 5.354 5.357A 5.352A	5.341 5.351 5.353A 5.354 5.357A				

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
	5.374 5.375 5.376	5.374 5.375 5.376				
1660.00 - 1660.50	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			Important band for Radio astronomy
	MOBILE-SATELLITE (Earth to space) 5.351A	MOBILE-SATELLITE (Earth to space) 5.351A	Maritime mobile-satellite (Earth to space)	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 5.341 5.351 5.354 5.376A EU 15				
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 5.3415.379A	5.149 EU2 5.341 EU15 5.379A				
1668 – 1668.4	MOBILE-SATELLITE (Earth to space) 5.379A 5.379B 5.379C	MOBILE-SATELLITE (Earth to space) 5.379B 5.379C				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			Important band for Radio astronomy
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				



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
	Fixed	Fixed				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
	5.149 5.341 5.379A	5.149 5.341 5.379A 5.379D EU15				
1668.4 – 1670	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS				
	FIXED	FIXED				
	MOBILE except Aeronautical mobile	MOBILE except Aeronautical mobile				
	MOBILE-SATELLITE (Earth to space) 5.351A 5.379B 5.379C	MOBILE-SATELLITE (Earth to space) 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 (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)				
	MOBILE-SATELLITE (Earth to space) 5.351A 5.379B	MOBILE-SATELLITE (Earth to space)			ECC/DEC/(04)09	
	MOBILE	MOBILE				

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
	FIXED	Fixed				
	5.341 5.379D 5.380A	5.341 5.379B 5.379D 5.379E 5.380A				
1675 - 1690	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological-satellite			
	FIXED	FIXED				
	METEOROLOGICAL-SATELLITE (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.341	5.341 EU2 EU15				
1690 - 1700	METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Meteorological-satellite			Weather satellite reception (HRPT) 1690 - 1710 MHz
	METEOROLOGICAL-SATELLITE (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)				
	Fixed	Fixed				
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
	5.289 5.341	5.289 EU2 5.341 EU15				
1700 - 1710	FIXED	FIXED	Meteorological-satellite			Weather satellite reception (HRPT)

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 - 1710 MHz
	METEOROLOGICAL – SATELLITE (space to Earth)	METEOROLOGICAL – SATELLITE (space to Earth)				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.289 5.341	5.289 EU2 5.341 EU15				

See ComReg document 20/17 where this table has been updated.

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
<div style="background-color: #c00000; color: white; padding: 10px; display: inline-block;"> <p>See ComReg document 20/17 where this table has been updated.</p> </div>						
1930 - 1970	MOBILE 5.388A	MOBILE 5.388A	IMT-2000 / UMTS terrestrial (1900-1980, 2010-2025 and 2110-2170 MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003 S.I. 34 of 2014	ECC/REC/(08)02 ECC/DEC(06)01 ERC/REC/(01)01	

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
				European Legislation: Decision 128/1999/EC Decision 2012/688/EU		
	FIXED	Fixed				
	5.388	5.388 EU29				
1970 - 1980	MOBILE 5.388A	MOBILE 5.388A	IMT-2000 / UMTS terrestrial (1900-1980, 2010-2025 and 2110-2170 MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003 S.I. 34 of 2014  European Legislation: Decision 128/1999/EC Decision 2012/688/EU	ECC/REC/(08)02 ECC/DEC(06)01 ERC/REC/(01)01	
	FIXED	Fixed				
	5.388	5.388 EU29				
1980 - 2010	FIXED	Fixed				
	MOBILE	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 08/08R (as revised)
	MOBILE-SATELLITE (Earth to space) 5.351A	MOBILE-SATELLITE (Earth to space) 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				

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 5.388A	MOBILE 5.388A	IMT-2000 / UMTS terrestrial (1900-1980, 2010-2025 and 2110-2170 MHz)	National Legislation: S.I. 158 of 2003 S.I. 340 of 2003 S.I. 34 of 2014  European Legislation: Decision 128/1999/EC	ECC/DEC/(06)01 ERC/REC/(01)01	See ComReg document 02/02R and 08/08R (as revised)
	5.388	5.388 EU29				
			PMSE	European Legislation: (EU) 2016/339	ERC/REC 25-10	See ComReg document 08/09R (as revised)
2025 - 2110	FIXED	FIXED	Fixed: Point-Point radio links (infrastructure) (2025-2110 and 2200-2290 MHz)	National Legislation: S.I. 370 of 2009	Recommendation T/R 13-01: Annex C	See ComReg documents 09/89R (as revised) and 09/89A
	MOBILE 5.391	MOBILE 5.391				See ComReg document 02/02R and 08/08R (as revised)
	SPACE RESEARCH (Earth to space) (space to space)	SPACE RESEARCH (Earth to space) (space to space)				
	SPACE OPERATION (Earth to space) (space to space)	SPACE OPERATION (Earth to space) (space to space)				
	EARTH EXPLORATION-SATELLITE (Earth to space) (space to space)	EARTH EXPLORATION-SATELLITE (Earth to space) (space to space)				
			SAP/SAB		Recommendation ERC/REC 25-10	
	5.392	5.392 EU2 EU15 EU27				

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
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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
<p>See ComReg document 20/17 where this table has been updated.</p>						
2170 - 2200	FIXED	Fixed				
	MOBILE	MOBILE				See ComReg document 02/02R and 08/08R (as revised)
	MOBILE-SATELLITE (space to Earth) 5.351A	MOBILE-SATELLITE (space to Earth) 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	ECC/REC/(10)01 ECC/DEC/(06)09 ECC/DEC/(06)10	



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
	5.388 5.389A	5.388 5.389A		Decision 2009/449/EC		
2200 - 2290	FIXED	FIXED	Fixed links (infrastructure) (2025-2110 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 (space to Earth)( space to space)	SPACE RESEARCH (space to Earth)( space to space)				
	SPACE OPERATION (space to)( space to spaceS/S)	SPACE OPERATION (space to Earth)( space to space)				
	EARTH EXPLORATION-SATELLITE (space to Earth)( space to space)	EARTH EXPLORATION-SATELLITE (space to Earth)( space to space)				
	MOBILE 5.391	MOBILE 5.391				
				SAP/SAB		ERC/REC 25-10
	5.392	5.392 EU15 EU27				
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 02/02R and 08/08R (as revised)
	SPACE RESEARCH (deep space) (space to Earth)	SPACE RESEARCH (deep space) (space to Earth)				
		EU2				
2300 - 2450	FIXED	FIXED				ITU-R F. 746 Annex 2

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
						(2.3-2.5 GHz)
	MOBILE 5.384A	MOBILE 5.384A				
	Amateur	Amateur (2300 – 2400 MHz) Amateur-satellite (2400-2450 MHz)	Amateur (secondary)	National Legislation: S.I. 192 of 2009		
	Radiolocation	Radiolocation				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2011/829/EU Decision 2013/752/EU  Recommendation 2003/203/EC	ERC/DEC/(01)08 ERC/REC 70-03	See ComReg document 02/71R (as revised)
			SAP/SAB (2300-2400 MHz)		ERC/REC 25-10	See ComReg document 08/08R(as revised)
	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:	ERC/DEC/(01)08 ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
				Decision 2011/829/EU Decision 2013/752/EU  Recommendation 2003/203/EC		
	5.150	5.150				
2483.5 - 2500	FIXED	FIXED				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (space to Earth) 5.351A	MOBILE-SATELLITE (space to Earth) 5.351A	Satellite personal communications service	National Legislation: S.I. 214 of 1998	ECC/DEC/(09)02	
	Radiolocation					
	RADIODETERMINATION – SATELLITE (space to Earth) 5.398				ERC/REC 25-10	
			SAP/SAB			
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.150 5.402	5.150 5.371 5.398 5.402				
2500 - 2520	FIXED 5.410	Fixed		European Legislation: Decision 2008/477/EC	ECC/REC/ (11)05	
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC	ECC/REC/(11)05	

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
	5.403					
2520 - 2655	FIXED 5.410	FIXED		European Legislation: Decision 2008/477/EC	ECC/REC/(11)05	
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC	ECC/REC/(11)05	
	BROADCASTING-SATELLITE 5.413 5.416					
				National Legislation: S.I. 529 of 2003 European Legislation: Decision 2008/477/EC	ECC/REC/(11)05	
			Terrestrial electronic communication services, including SAP/SAB	European Legislation: Decision 2008/477/EC	ERC/REC 25-10	See ComReg document 08/08R(as revised)
	5.339 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	ECC/REC/(11)05	
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC	EEC/REC/(11)05	
	BROADCASTING-SATELLITE 2.208B 5.413 5.416					
	Earth exploration-satellite (passive)	Earth exploration-satellite (passive)				

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
	Radio astronomy	Radio astronomy				
	Space research (passive)	Space research (passive)				
			Terrestrial electronic communication services, including SAP/SAB	European Legislation: Decision 2008/477/EC	ERC/REC 25-10	See ComReg document 08/08R(as revised)
	5.149 5.420	5.149 EU2 EU15 EU16				
2670 - 2690	FIXED 5.410	Fixed		European Legislation: Decision 2008/477/EC	ECC/REC/(11)05	.
	MOBILE except aeronautical mobile 5.384A	MOBILE except aeronautical mobile 5.384A		European Legislation: Decision 2008/477/EC	ECC/REC/(11)05	.
	Earth exploration–satellite (passive)					
	Radio astronomy	Radio astronomy				
	Space research (passive)					
				European Legislation: Decision 2008/477/EC		
	5.149	5.149				
2690 - 2700	EARTH EXPLORATION–SATELLITE (passive)	EARTH EXPLORATION–SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			

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
	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	S.I. 369 of 2009	ECC/REC/(02)09	Annex 10 to the Convention on International Civil Aviation. See ComReg document 11/07
	Radiolocation	Radiolocation	Meteorological radar			
			Maritime radionavigation service			
	5.423	5.423				
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 R101 and ITU-R M.824
	5.425 5.427	5.425 5.427 EU2 EU27				
3100 - 3300	RADIOLOCATION	RADIOLOCATION	Radars, active sensors and RACONs	S.I 369 of 2009		See ComReg document 11/07
	Earth exploration-satellite (active)	Earth exploration-satellite (active)				
	Space research (active)	Space research (active)				
			Maritime radionavigation service	S.I 369 of 2009		See ComReg document 11/07

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	5.149 EU2 EU27				
3300 - 3400	RADIOLOCATION	RADIOLOCATION	Radar	S.I 369 of 2009		Upper limit for Airborne Radars is 3410 MHz See ComReg document 11/07
			Maritime radionavigation service	S.I 369 of 2009		See ComReg document 11/07
	5.149	5.149 EU2				

See ComReg document 20/17 where this table has been updated.

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
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See ComReg document 20/17 where this table has been updated.



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
4200-4400	AERONAUTICAL MOBILE (R) 5.436					

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
	AERONAUTICAL RADIONAVIGATION 5.438	AERONAUTICAL RADIONAVIGATION 5.438	Radio altimeters	S.I. 369 of 2009		FM CW (1W EIRP) See ComReg document 11/07
	5.440	5.440				
4400 - 4500	FIXED	FIXED				
	MOBILE	MOBILE				
		EU2 EU27				
4500 - 4800	FIXED	FIXED				
	FIXED-SATELLITE (space to Earth) 5.441	FIXED-SATELLITE (space to Earth) 5.441	Fixed satellite (space to Earth)	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 (as revised)
		EU27				
4800 - 4990	FIXED	FIXED				
	MOBILE 5.442	MOBILE except aeronautical mobile				
	Radio Astronomy	Radio astronomy				

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 (as revised)
	5.149 5.339	5.149 5.339 EU 27				
4990 - 5000	FIXED	FIXED				
	MOBILE except Aeronautical mobile	MOBILE except Aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	Space Research (passive)					
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.149	5.149 EU27				
5000 – 5010	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	Microwave Landing Systems (MLS)	S.I. 369 of 2009		See ComReg document 11/07
	RADIONAVIGATION-SATELLITE (Earth to space)	RADIONAVIGATION-SATELLITE (Earth to space)				
	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA					
		Space research (passive)				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
		5.367				

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)	S.I. 369 of 2009		See ComReg document 11/07
	RADIONAVIGATION-SATELLITE (space to Earth)( space to space) 5.443B 5.328B	RADIONAVIGATION-SATELLITE (space to Earth)(space to space) 5.443B 5.328B				
	AERONAUTICAL MOBILE-SATELLITE (R)					
	5.443B 5.328B					
5030 - 5091	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R) 5.443C	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R)	Microwave Landing Systems (MLS)	S.I. 369 of 2009		ITU Radio Regulation Footnote 5.444 gives priority to MLS in this band over other users.
	AERONAUTICAL MOBILE-SATELLITE (R) 5.443D	AERONAUTICAL MOBILE-SATELLITE (R)				Annex 10 to the Convention on International Civil Aviation. See ComReg document 11/07
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.444	5.444				

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)	S.I. 369 of 2009		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. See ComReg document 11/07
	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA					
	AERONAUTICAL MOBILE 5.444B					
	FIXED-SATELLITE (Earth to space) 5.444A					
	5.444		Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R(as revised)
5150 – 5250	AERONAUTICAL RADIONAVIGATION					
	FIXED-SATELLITE (Earth to space) 5.447A	FIXED-SATELLITE (Earth to space) 5.447A	Fixed-satellite (Earth to space)	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	ECC/DEC/(04)08 ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
				European Legislation: Decision 2005/513/EC Decision 2007/90/EC Recommendation 2003/203/EC		
	5.446 5.447B 5.447C	5.446 5.447B 5.447C				
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 (Earth to space)	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 (as revised)
	5.448A	5.448A EU2 EU22				

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
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 (Earth to space)	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 (as revised)
55.448A	5.448A	EU2 EU22				
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 (Earth to	National Legislation:		See ComReg document

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
			space)	S.I. 273 of 2000 S.I. 295 of 2007		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 (Earth to space)	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	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.448B	5.448B EU2 EU22				
5470 - 5570	MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION	Meteorological service radar, radiolocation: Position fixing Equipment	S.I. 369 of 2009		See ComReg document 11/07
	MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A				
	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				



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
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	RADIOLOCATION 5.450B	RADIOLOCATION 5.450B	Weather radar			
			Amateur (secondary), FSTV			
			Fixed-satellite (Earth to space)	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 (as revised)
5.448B 5.451	5.448B EU2 EU22					
5570 - 5650	MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION	Meteorological service radar, radiolocation: Position fixing Equipment	S.I. 369 of 2009		See ComReg document 11/07
	MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A				
	RADIOLOCATION 5.450B	RADIOLOCATION 5.450B	Weather radar			
			Amateur (secondary), FSTV			
			Fixed-satellite (Earth to space)	National Legislation: S.I. 273 of 2000		See ComReg document 00/64R

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
				S.I. 295 of 2007		
			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 (as revised)
	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)					
		Amateur-satellite (Earth to space)		National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		
			Fixed-satellite (Earth to space)	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	ECC/DEC/(04)08 ERC/REC 70-03	See ComReg document 02/71R (as revised)

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
				Commission Recommendation 2003/203/EC		
	5.282 5.451	5.282 EU2 EU17 EU22				
5725 - 5830	FIXED–SATELLITE (Earth to space)	FIXED–SATELLITE (Earth to space)	Fixed-satellite (Earth to space)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur	Amateur (5650-5850 MHz) (secondary)			
		Mobile				
		Fixed	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 2011/829/EU	ERC/REC 70-03
	5.150 5.451	5.150 EU2 EU22				
5830 - 5850	FIXED–SATELLITE (Earth to space)	FIXED–SATELLITE (Earth to space)	Fixed-satellite (Earth to space)	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007		See ComReg document 00/64R
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				

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 (space to Earth)	Amateur-satellite (space to Earth)	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 2011/829/EU	ERC/REC 70-03	See ComReg document 02/71R (as revised)	
		Fixed	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(as revised)
	5.150 5.451	5.150 EU2 EU22					
5850 - 5925	FIXED	FIXED					
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)	Fixed-satellite (Earth to space): 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 2013/752/EU Decision 2011/829/EU Decision 2008/671/EC	ERC/REC 70-03	See ComReg document 02/71R (as revised)	

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
			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 Annex 1	See ComReg documents 09/89R (as revised) and 09/89A
			Fixed Point-Point radio links (infrastructure) (6425-7125 MHz)	National Legislation: S.I. 370 of 2009	ERC/REC 14-02 Annex 1	See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (Earth to space) 5.457A 5.457B	FIXED-SATELLITE (Earth to space) 5.457A	Fixed-satellite (Earth to space): VSATs	National Legislation: S.I. 273 of 2000 S.I. 295 of 2007	ECC/DEC/(05)09	See ComReg document 00/64R
	MOBILE					02/02R and 08/08R (as revised)
		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 (as revised)
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
5.149 5.440 5.458		5.149 5.440 5.458				

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	
6700 - 7075	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ERC/REC 14-02 E: Annex 1	See ComReg documents 09/89R (as revised) and 09/89A	
	FIXED-SATELLITE (Earth to space)(space to Earth) 5.441	FIXED-SATELLITE (Earth to space)( space to Earth) 5.441	Fixed-satellite (Earth to space)(space to Earth)	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	See ComReg document 02/71R.(as revised)
				Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
	5.458 5.458A 5.458B	5.458 5.458A 5.458B					
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 09/89R (as revised) 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)	Industrial level probing radar	S.I.112 of 2013	ECC/DEC/(11)02		

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	
	5.458	5.458					
7145 - 7235	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(02)06	See ComReg documents 09/89R (as revised) 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 (deep space)(Earth to space) 5.460	SPACE RESEARCH (deep space)(Earth to space) 5.460					
	EARTH EXPLORATION-SATELLITE (Earth to space) 5.460A 5.460B	EARTH EXPLORATION-SATELLITE (Earth to space) 5.460A 5.460B				7190-7235 MHz	
				Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
	5.458 5.459	5.458					
7235 - 7250	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89R (as revised) and 09/89A  Note: Part of the L7 band (7125 -7425 MHz ) may be allocated towards unidirectional links such as ENG/OB	
	MOBILE						

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
	EARTH EXPLORATION-SATELLITE (Earth to space) 5.460A	EARTH EXPLORATION-SATELLITE (Earth to space) 5.460A				
		Space research (Earth to space)				
	5.458		Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
7250 -7300	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(02)06	See ComReg documents 09/89R (as revised) and 09/89A  Note: Part of the L7 band (7125-7425 MHz ) may be allocated towards unidirectional links such as ENG/OB
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)	Fixed satellite (space to Earth)	National Legislation: S.I. 295 of 2007		
	MOBILE	MOBILE				
			Meteorological satellite (space to Earth)			
	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 09/89R (as revised) and 09/89A  Note: Part of the L7 band (7125-7425 MHz ) may be allocated towards



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
						unidirectional links such as ENG/OB
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)	Fixed-satellite (space to Earth)	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				
7450 - 7550	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(02)06	See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)	Fixed-satellite (space to Earth)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R
	METEOROLOGICAL-SATELLITE (space to Earth)	METEOROLOGICAL-SATELLITE (space to Earth)	Meteorological-Satellite (space to Earth)			
	MOBILE except Aeronautical mobile	MOBILE except Aeronautical mobile				
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
	5.461A 5.461AA 5.461AB	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 09/89R (as revised) and 09/89A ITU-R F.386-6 Annex 1
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)	Fixed-satellite (space to Earth)	National Legislation: S.I. 295 of 2007		See ComReg 00/64R

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	MOBILE except aeronautical mobile				
	MARITIME MOBILE-SATELLITE 5.461AA 5.461AB	MARITIME MOBILE-SATELLITE 5.461AA 5.461AB				
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
		EU2 EU27				
7750 – 7900	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89R (as revised) and 09/89A  ITU-R F.386-6 Annex 1
	METEOROLOGICAL-SATELLITE (space to Earth) 5.461B	METEOROLOGICAL-SATELLITE (space to Earth) 5.461B				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
		EU2				
7900 - 8025	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC(02)06	See ComReg documents 09/89R (as revised) and 09/89A  ITU-R F.386-6 Annex 1
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)	Fixed satellite (Earth to space)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R

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	MOBILE				
			Meteorological satellite (Earth to space)			
			Earth exploration satellite service (space to Earth)			
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
	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 09/89R (as revised) and 09/89A  ITU-R F.386-6 Annex 1
	EARTH EXPLORATION-SATELLITE (space to Earth)	EARTH EXPLORATION-SATELLITE (space to Earth)	Earth exploration-satellite service (space to Earth)			
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)	Fixed satellite (Earth to space)	National Legislation: S.I. 295 of 2007		
	MOBILE 5.463	MOBILE 5.463				
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
	5.462A	5.462A EU2 EU27				
8175 - 8215	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(02)06	See ComReg documents 09/89(as revised) and

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
						09/89A ITU-R F.386-6 Annex 1
	EARTH EXPLORATION-SATELLITE (space to Earth)	EARTH EXPLORATION-SATELLITE (space to Earth)	Earth exploration-satellite service (space to Earth)			
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)	Fixed-satellite (Earth to space)	National Legislation: S.I. 295 of 2007		
	MOBILE 5.463	MOBILE 5.463				
	METEOROLOGICAL-SATELLITE (Earth to space)	METEOROLOGICAL-SATELLITE (Earth to space)	Meteorological-satellite (Earth to space)			
	5.462A	5.462A EU2 EU27	Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
8215 - 8400	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(02)06	See ComReg documents 09/89R (as revised) and 09/89A ITU-R F.386-6 Annex 1 ITU-R F.386-6 Annex 3
	EARTH EXPLORATION-SATELLITE (space to Earth)	EARTH EXPLORATION-SATELLITE (space to Earth)	Earth exploration-satellite service (space to Earth)			
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)	Fixed-satellite (Earth to space)	National Legislation: S.I. 295 of 2007		See ComReg document 00/64R
	MOBILE 5.463					

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
			Meteorological-satellite (Earth to space)			
			Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
	5.462A	5.462A EU2 5.463 EU27				

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 (space to Earth) 5.465	SPACE RESEARCH (space to Earth) 5.465				
		Radiolocation	Industrial level probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
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 (as revised)
		5.469 EU2 EU24				
8550 - 8650	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	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	See ComReg document 02/71R (as revised)
	5.469A	EU2 5.469A EU24				

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
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 (as revised)
		EU2 EU24				
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 (as revised)
		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 (as revised)
		EU2 EU24				

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
9000 - 9200	AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION 5.337	Radar (government services)			
	RADIOLOCATION	RADIOLOCATION				
		Space research				
	5.473A	EU2 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 (as revised)
9200 - 9300	EARTH EXPLORATION-SATELLITE (active) 5.474B 5.474C	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) 5.474B 5.474C				
	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 (as revised)
5.474	5.474 EU2 EU24					
9300 - 9500	RADIONAVIGATION	RADIONAVIGATION	Maritime radionavigation service			
	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				



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
	RADIOLOCATION	RADIOLOCATION	Maritime RACONs			
			Weather radar (9330-9360MHz), radiolocation: Position fixing (private operators)			
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	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				
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	See ComReg document 02/71R (as revised)
	5.476A	5.476A EU2 EU24				
9800 - 9900	RADIOLOCATION	RADIOLOCATION				
	Earth exploration-satellite (active)	Earth exploration-satellite (active)				

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
	Space research (active)	Space research (active)				
	Fixed					
	5.478A 5.478B	5.478A EU2 5.478B 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(as revised)
9900 - 10000	RADIOLOCATION	RADIOLOCATION				
	Fixed	FIXED				
	5.479	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(as revised)





## 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 2006/771/EC of 09 November 2006 on harmonisation of the radio spectrum for use by short-range devices.
3. 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)
4. 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>
5. Commission Implementing Decision 2014/702/EU of 7 October 2014 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/legal-content/EN/TXT/PDF/?uri=CELEX:32014D0702&from=EN.pdf>
6. Commission Decision 2011/829/EU of 8 December 2011 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.  
  
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](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](http://www.comreg.ie/_fileupload/publications/SI369of2009.pdf)

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

10. ECC Decision (06)04 of 24 March 2006 amended 06 July 2007 and 09 December 2011 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz.
11. ECC Decision (06)08 OF 1 December 2008 on the conditions of use of the radio spectrum by ground-and wall- probing radar (GPR/WPR) imaging systems.
12. S.I. 111 of 2013 ‘Wireless Telegraphy Act 1926 (Section 3)(Exemption of ground probing and wall probing radars) Order, 2013.

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	EARTH EXPLORATION-SATELLITE (active) 5.474B 5.474C	EARTH EXPLORATION-SATELLITE (active) 5.474B 5.474C				(10-10.4GHz)
	FIXED	FIXED	FWALA (10.15-10.3 GHz /and 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 02/02R and 08/08R (as revised)
	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 (as revised)
			SAP/SAB		ERC/REC 25-10	
	5.479	EU2 EU 17 EU17A				
10.45 - 10.5	RADIOLOCATION	RADIOLOCATION			ERC/REC 12-05 (Fixed links)	
		FIXED				
		MOBILE				See ComReg document 08/08

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
	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 (as revised)
		EU2 EU 17 EU17A EU 23				
10.5 - 10.55	FIXED	FIXED	FWALA (10.15-10.3 and 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 (as revised)
			SAP/SAB		ERC/REC 25-10	
		EU17A				
10.55 - 10.6	FIXED	FIXED	FWALA (10.15-10.3 and 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 06/17R7 for details of band plan and pairing



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
						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 (as revised)
			SAP/SAB		ERC/REC 25-10	
		EU17A				
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 and 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 06/17R7 for details of band plan and pairing arrangements.
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	Radiolocation	Radiolocation	Radiolocation (security devices, to 10.65 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
			SAP/SAB		ERC/REC 25-10	
	5.149 5.482A	EU17A				
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					
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 (space to Earth) 5.441 5.484A 5.484B (Earth to space) 5.484	FIXED-SATELLITE (space to Earth) (Earth to space)	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/(03)04 ECC/DEC/(05)10 ECC/DEC/(05)11 ECC/DEC/(06)02 ECC/DEC/(06)03	Fixed-satellite (space to Earth): 5.441 only applies to the 11.2-11.45 GHz sub band, 5.484A and 5.484B apply to both the 10.95-11.2 GHz and 11.45-11.7 sub bands.  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	MOBILE except				

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
	aeronautical mobile	aeronautical mobile				
		Mobile-satellite (space to Earth)				See ComReg document 00/64R.
11.7 - 12.5	FIXED	FIXED				
	BROADCASTING		MMDS programme services distribution	National Legislation: S.I. 529 of 2003		See ComReg documents 04/26, 04/27 and 04/28
	BROADCASTING-SATELLITE 5.492	BROADCASTING-SATELLITE	SNG and 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	EU28				
12.5 - 12.75	FIXED-SATELLITE (space to Earth) 5.484A (Earth to space)	FIXED-SATELLITE (space to Earth) 5.484A (Earth to space)	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.
12.75 - 13.25	FIXED	FIXED	Fixed links (12.75-13.25 GHz)	National Legislation: S.I. 370 of 2009	ERC/REC 12-02	See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (Earth to space) 5.441	FIXED-SATELLITE (Earth to space)	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.

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
	MOBILE					
	Space Research (deep space) (space to Earth)					
13.25 - 13.4	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	AERONAUTICAL RADIONAVIGATION 5.497	AERONAUTICAL RADIONAVIGATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
	5.498A	EU26				
13.4 - 13.75	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	FIXED-SATELLITE (space to Earth) 5.499A 5.499B	FIXED-SATELLITE (space to Earth) 5.499A 5.499B				Fixed-satellite (space to Earth) 5.499A 5.499B applies to 13.4-13.65 GHz sub-band
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH 5.501A	SPACE RESEARCH 5.501A				
	Standard Frequency and Time Signal-satellite (Earth to space)					
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.499E 5.501B	EU2 EU26				
13.75 - 14	RADIOLOCATION	RADIOLOCATION	Maritime navigation			

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
			radars			
	FIXED–SATELLITE (Earth to space) 5.484A	FIXED–SATELLITE (Earth to space) 5.484A	VSAT and transportable Earth stations			See ComReg document 00/64R.
	Standard Frequency and Time Signal-satellite (Earth to space)					
	Space research	Space research				
	Earth exploration-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 (as revised)
	5.502 5.503	EU2 EU26				
14 - 14.25	FIXED–SATELLITE (Earth to space) 5.457A 5.484A 5.506	FIXED–SATELLITE (Earth to space)	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 (Earth to space) 5.506A 5.504B 5.504C	Mobile–satellite (Earth to space)				
	Space research	Space research				
	5.504A 5.505					
14.25 - 14.3	FIXED–SATELLITE (Earth	FIXED–SATELLITE (Earth	Earth Stations (satellite	National Legislation:	ERC/REC 13-03	See ComReg document

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
	to space) 5.484A 5.506 5.457A 5.457B 5.506B	to space)	uplinks), (public broadcasters), uplinks, VSAT (14-14.5 GHz) uplinks, transportable Earth stations (SNG) uplinks	S.I. 273 of 2000	(VSAT/SNG) ECC/DEC/(03)04 ECC/DEC/(05)10 ECC/DEC/(05)11	00/64R.
	RADIONAVIGATION 5.504					
	Mobile–satellite (Earth to space) 5.506A 5.508A 5.504B	Mobile–satellite (Earth to space)				
	Space research	Space research				
	5.504A 5.508					
14.3 - 14.4	FIXED			National Legislation: S.I. 370 of 2009		
	FIXED–SATELLITE (Earth to space) 5.457A 5.547B 5.484A 5.484B 5.506 5.506B	FIXED–SATELLITE (Earth to space)	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/(03)04 ECC/DEC/(05)10 ECC/DEC/(05)11	See ComReg document 00/64R.
	MOBILE except aeronautical mobile					
	Mobile–satellite (Earth to space) 5.504B 5.506A 5.509A	Mobile–satellite (Earth to space)				
	Radionavigation–satellite					
	5.504A					

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
14.4 -14.47	FIXED					
	FIXED-SATELLITE (Earth to space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B	FIXED-SATELLITE (Earth to space)	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/(03)04 ECC/DEC/(05)10 ECC/DEC/(05)11	See ComReg document 00/64R.
	MOBILE except aeronautical mobile					
	Mobile-satellite (Earth to space) 5.504B 5.506A 5.509A	Mobile-satellite (Earth to space)				
	Space Research (space to Earth)					
	5.504A					
14.47 -14.5	FIXED					
	FIXED-SATELLITE (Earth to space) 5.457A 5.457B 5.484A 5.506 5.506B	FIXED-SATELLITE (Earth to space)	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 (Earth to space) 5.504B 5.506A 5.509A	Mobile-satellite (Earth to space)				
	Radio astronomy	Radio astronomy				
	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

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
						ITU-R F.636-3
	FIXED-SATELLITE (Earth to space) 5.509B 5.509C 5.509D 5.509E 5.509F 5.510					
	FIXED-SATELLITE (Earth to space) 5.510					Applies to sub-band 14.75-14.8 GHz
	MOBILE	MOBILE				
	Space research 5.509G					
		Radio astronomy				
		EU27 EU20				
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	EU27 EU20				
15.35 - 15.4	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			



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) 5.340 5.511	SPACE RESEARCH (passive)				
15.4 - 15.43	AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.511E 5.511F	AERONAUTICAL RADIONAVIGATION RADIOLOCATION				
15.43 - 15.63	FIXED-SATELLITE (Earth to space) 5.511A AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.511E 5.511F 5.511C	FIXED-SATELLITE (Earth to space) AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.511C				
15.63 - 15.7	AERONAUTICAL RADIONAVIGATION RADIOLOCATION 5.511E 5.511F	AERONAUTICAL RADIONAVIGATION RADIOLOCATION				
15.7 - 16.6	RADIOLOCATION 5.512 5.513	RADIOLOCATION EU27	Surface movement radar			Annex 10 to the Convention on International Civil Aviation
16.6 - 17.1	RADIOLOCATION Space research (deep space) (Earth to space) 5.512 5.513	RADIOLOCATION Space research (deep space) (Earth to space) EU27				

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				
	5.512 5.513	EU2	Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2002	ERC/REC 70-03	See ComReg Document 02/71R (as revised).
17.2 - 17.3	EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)				
	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (active)	SPACE RESEARCH (active)				
		MOBILE				
	5.512 5.513		Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2002	ERC/REC 70-03	See ComReg Document 02/71R (as revised).
5.513A	5.513A EU2					
17.3 - 17.7	FIXED-SATELLITE (Earth to space) 5.516 (space to Earth) 5.516A 5.516B	FIXED-SATELLITE (Earth to space) 5.516 (space to Earth) 5.516A 5.516B			ECC/DEC/(05)08 ECC/DEC/(13)01	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:	ERC/REC 12-03 E Annex	See ComReg documents

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
				S.I. 370 of 2009	A ECC/DEC/(00)07	09/89 and 09/89A
	FIXED-SATELLITE (space to Earth) 5.484A (Earth to space) 5.516	FIXED-SATELLITE (space to Earth) 5.484A (Earth to space) 5.516			ECC/DEC/(13)01	
	MOBILE					
18.1 - 18.4	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 (space to Earth) 5.484A 5.516B (Earth to space) 5.520	FIXED-SATELLITE (space to Earth)			ECC/DEC/(13)01	
	MOBILE					
		METEOROLOGICAL-SATELLITE (space to Earth)				
	5.519 5.521					
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 (space to Earth) 5.484A 5.516B	FIXED-SATELLITE (space to Earth)			ECC/DEC/(13)01	
	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 (space to Earth) 5.552B	FIXED-SATELLITE (space to Earth)				

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
	MOBILE except aeronautical mobile					
	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	Space research (passive)					
	5.522A					
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 (space to Earth) 5.523A 5.516B	FIXED-SATELLITE (space to Earth)	Earth station down links (educational institutions)		ECC/DEC/(13)01	
	MOBILE					

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
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 (space to Earth)(Earth to space) 5.523B 5.523C 5.523D 5.523E	FIXED-SATELLITE (space to Earth)(Earth to space)	Earth station down links (educational institutions)		ECC/DEC/(13)01	
	MOBILE					
19.7 - 20.1	FIXED-SATELLITE (space to Earth) 5.484A 5.516B	FIXED-SATELLITE (space to Earth)		National Legislation: S.I. 505 of 2003	ECC/REC/(05)08 ECC/DEC/(06)02 ECC/DEC/(06)03 ECC/DEC/(13)01	
	Mobile-satellite (space to Earth) 5.524	Mobile-satellite (space to Earth)				
20.1 - 20.2	FIXED-SATELLITE (space to Earth) 5.484A 5.484B 5.516B	FIXED-SATELLITE (space to Earth)		National Legislation: S.I. 505 of 2003	ECC/REC/(05)08 ECC/DEC/(06)02 ECC/DEC/(06)03 ECC/DEC/(13)01	
	MOBILE-SATELLITE (space to Earth) 5.525 5.526 5.527 5.528	Mobile-Satellite (space to Earth)				
20.2 - 21.2	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE-SATELLITE (space to Earth)	MOBILE-SATELLITE (space to Earth)				
	Standard Frequency and Time Signal-satellite (space to Earth)					
		EU2 EU27				

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				
	5.530A 5.530B		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 2011/485/EU Decision 2005/50/EC	ECC/DEC/(04)10	See ComReg document 02/71R (as revised)
	5.530D					
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)				
				Short Range Devices, Automotive short range	National Legislation: S.I. 405 of 2002	ECC/DEC(04)10

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
	5.149	EU17A	radar (21.65 GHz-26.65 GHz)	S.I. 160 of 2006 European Legislation: Decision 2011/485/EU Decision 2005/50/EC		
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				
	5.149 5.532			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 2011/485/EU Decision 2005/50/EC	ECC/DEC(04)10
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				

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	
			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 2011/485/EU Decision 2005/50/EC	ECC/DEC/(04)10	See ComReg document 02/71R (as revised)	
22.55 - 23.15	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					
	MOBILE	MOBILE					
	SPACE RESEARCH (Earth to space) 5.532A 5.149	SPACE RESEARCH (Earth to space)					
				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 2011/485/EU Decision 2005/50/EC	ECC/DEC/(04)10	See ComReg document 02/71R (as revised)
			EU17A				
23.15-23.55	FIXED INTER-SATELLITE 5.338B						
	MOBILE						
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	



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
	MOBILE	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 2011/485/EU Decision 2005/50/EC	ECC/DEC/(04)10	See ComReg document 02/71R (as revised)
23.6 - 24	EARTH EXPLORATION–SATELLITE (passive)	EARTH EXPLORATION–SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			
	SPACE RESEARCH (passive)	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 2011/485/EU Decision 2005/50/EC	ECC/DEC/(04)10	See ComReg document 02/71R (as revised)
	5.340					
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 2011/485/EU Decision 2005/50/EC	ERC/REC 70-03 ECC/DEC/(04)10	See ComReg document 02/71R (as revised).

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
	5.150		Industrial probing radar	S.I. 112 of 2013	ECC/DEC/(11)02	
24.05 - 24.25	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Earth exploration-satellite (active)	Earth exploration-satellite (active)				
		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 2006/771/EC Decision 2011/829/EU Decision 2011/485/EU Decision 2005/50/EC	ERC/REC 70-03 ECC/DEC/(04)10	See ComReg document 02/71R (as revised)
	5.150	EU2				

See ComReg document 20/17 where this table has been updated.

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
<p>See ComReg document 20/17 where this table has been updated.</p>						

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
<p>See ComReg document 20/17 where this table has been updated.</p>						

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
<p>See ComReg document 20/17 where this table has been updated.</p>						

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
<p>See ComReg document 20/17 where this table has been updated.</p>						
27.5 - 28.5	FIXED	FIXED	Fixed Links (Infrastructure)	S.I. 370 of 2009	ERC/REC 12-07	See ComReg document s 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (Earth to space) 5.484A 5.516B 5.539	FIXED-SATELLITE (Earth to space)			ECC/REC/(13)01 ECC/DEC/(05)01	
	MOBILE					
	5.538 5.540					
28.5 - 29.1	FIXED	FIXED	Fixed Links (Infrastructure)	S.I. 370 of 2009	ERC/REC 12-07	See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (Earth to space) 5.484A 5.516B 5.523A 5.539	FIXED-SATELLITE (Earth to space)			ECC/REC/(13)01 ECC/DEC/(05)01	

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
	MOBILE					
	Earth Exploration-satellite (Earth to space) 5.541	Earth Exploration-satellite (Earth to space)				
	5.540					
29.1 - 29.5	FIXED	FIXED				See ComReg Documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (Earth to space) 5.523C 5.523E 5.535A 5.539 5.541A 5.516B	FIXED-SATELLITE (Earth to space)			ECC/REC/(13)01	
	MOBILE					
	Earth exploration-satellite (Earth to space) 5.541	Earth exploration-satellite (Earth to space)				
	5.540					
29.5 –29.9	FIXED-SATELLITE (Earth to space) 5.484A 5.484B 5.539 5.516B	FIXED-SATELLITE (Earth to space)		S.I. 505 of 2003	ECC/DEC/(06)02 ECC/DEC/(06)03 ECC/DEC/(05)08 ECC/DEC/(13)01	
	Mobile-satellite (Earth to space)	Mobile-satellite (Earth to space)				
	Earth Exploration-Satellite (Earth to space) 5.541	Earth Exploration-Satellite (Earth to space) 5.541				
	5.540	5.540				
29.9 - 30	FIXED-SATELLITE (Earth to space) 5.484A 5.484B 5.539 5.516B	FIXED-SATELLITE (Earth to space)			ECC/DEC/(06)02 ECC/DEC/(06)03 ECC/DEC/(05)08 ECC/DEC/(13)01	

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
	MOBILE-SATELLITE (Earth to space)	MOBILE-SATELLITE (Earth to space)				
	Earth Exploration-Satellite (Earth to space) 5.541 5.543	Earth exploration-satellite (Earth to space)				
	5.525 5.526 5.527 5.538 5.540					
30 - 31	FIXED-SATELLITE (Earth to space) 5.338A	FIXED-SATELLITE (Earth to space)			ECC/DEC/(10)02	
	MOBILE-SATELLITE (Earth to space)	MOBILE-SATELLITE (Earth to space)				
	Standard frequency and time signal-satellite (space to Earth)					
	5.542	EU2 EU27				
31 - 31.3	FIXED 5.338A 5.543A	FIXED	Fixed Links (Infrastructure)	S.I. 370 of 2009	ERC/REC 12-07 ECC/REC/(02)02	See ComRegDocuments 09/89R (as revised) and 09/89A
	MOBILE	MOBILE				
	Standard frequency and time Signal-satellite (space to Earth)					
	Space Research 5.544					
	5.149					



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
31.3 - 31.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)			ECC/DEC/(10)02	
	RADIO ASTRONOMY	RADIO ASTRONOMY	Radio astronomy			
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	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	S.I. 370 of 2009	ERC/REC 12-07 ECC/REC/(02)02	See ComReg Documents 09/89R (as revised) and 09/89A
	Mobile except aeronautical mobile	Mobile except aeronautical mobile				
5.149						
31.8 - 32	FIXED 5.547A	FIXED				
	RADIONAVIGATION	RADIONAVIGATION				
	SPACE RESEARCH (deep space) (space to Earth)	SPACE RESEARCH (deep space) (space to Earth)				
	5.547 5.548					
32 - 32.3	FIXED 5.547A	FIXED				

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
	RADIONAVIGATION	RADIONAVIGATION				
	SPACE RESEARCH (deep space) (space to Earth)	SPACE RESEARCH (deep space) (space to Earth)				
	5.547 5. 5.548					
32.3 – 33	FIXED 5.547A	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION				
	5.547 5.548					
33 - 33.4	FIXED 5.547A	FIXED				
	RADIONAVIGATION	RADIONAVIGATION				
		INTER-SATELLITE				
	5.547					
33.4 - 34.2	RADIOLOCATION	RADIOLOCATION				
		EU2 EU27				
34.2 - 34.7	RADIOLOCATION	RADIOLOCATION				
	SPACE RESEARCH (deep space) (Earth to space)	SPACE RESEARCH (deep space) (Earth to space)				
		EU2 EU27				

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
34.7 - 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	EU2 EU27				
36 - 37	EARTH EXPLORATION– SATELLITE (passive)	EARTH EXPLORATION– SATELLITE (passive)				
	FIXED	FIXED				
	MOBILE	MOBILE				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
		Radio astronomy				

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
	5.149 5.550A	EU27				

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 09/89R (as revised) and 09/89A
	MOBILE					
	SPACE RESEARCH (space to Earth)					
	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 ERC/DEC/(00)02	See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE except aeronautical mobile					
	SPACE RESEARCH (space to Earth)	SPACE RESEARCH (space to Earth)				
	Earth Exploration-Satellite (space to Earth)	Earth exploration-satellite (space to Earth)				
	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 ERC/DEC/(00)02	See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)			ERC/DEC/(00)02	
	MOBILE					
	Earth Exploration-satellite (space to Earth)	Earth exploration-satellite (space to Earth)				

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
	5.547	5.547 EU2				
39.5 - 40	FIXED	FIXED			ERC/DEC/(00)02	
	FIXED–SATELLITE (space to Earth) 5.516B	FIXED–SATELLITE (space to Earth)			ERC/DEC/(00)02	
	MOBILE	MOBILE				
	MOBILE–SATELLITE (space to Earth)	MOBILE–SATELLITE (space to Earth)				
	Earth Exploration-Satellite (space to Earth)	Earth Exploration-Satellite (space to Earth)				
	5.547	EU2				
40 - 40.5	FIXED	FIXED			ERC/DEC/(00)02	See ComReg Documents 09/89A
	FIXED–SATELLITE (space to Earth) 5.516B	FIXED–SATELLITE (space to Earth)			ERC/DEC/(00)02	
	MOBILE	MOBILE				
	MOBILE–SATELLITE (space to Earth)	MOBILE–SATELLITE (space to Earth)				
	EARTH EXPLORATION–SATELLITE (Earth to space)					
	Earth Exploration–satellite (space to Earth)	Earth exploration–satellite (space to Earth)				
	SPACE RESEARCH (Earth to space)	SPACE RESEARCH (Earth to space)				
		EU2				

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 Links	S.I. 370 of 2009	ERC/DEC/(99)15 ECC/REC/(01)04 ECC/DEC/(02)04	See ComReg Documents 09/89R ( as revised) and 09/89A
	FIXED-SATELLITE (space to Earth)					
	BROADCASTING	BROADCASTING				
	BROADCASTING--SATELLITE	BROADCASTING--SATELLITE				
	Mobile					
	5.547					
41 – 42.5	FIXED	FIXED	Fixed Links (Infrastructure)	S.I. 370 of 2009	ERC/DEC/(99)15 ECC/DEC/(02)04 ERC/REC 12-07	See ComReg Documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (space to Earth) 5.516B					
	BROADCASTING	BROADCASTING				
	BROADCASTING--SATELLITE	BROADCASTING--SATELLITE				
	Mobile					
	5.547 5.551H 5.551I					

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 Links	S.I. 370 of 2009	ERC/DEC/(99)15	See ComReg Documents 09/89R (as revised) and 09/89A
	FIXED–SATELLITE (Earth to space) 5.552	FIXED–SATELLITE (Earth to space)				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.547					
43.5 - 47	MOBILE 5.553	MOBILE				
	MOBILE–SATELLITE	MOBILE–SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION (45.5-47 GHz)				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE (45.5-47 GHz)				
		Fixed-satellite (43.5–45.5 GHz)				
	5.554	EU27				
47 - 47.2	AMATEUR	AMATEUR	Amateur	National Legislation: S.I. 192 of 2009		



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
	AMATEUR-SATELLITE	AMATEUR-SATELLITE	Amateur-satellite			
47.2 – 47.5	FIXED	FIXED				
	FIXED-SATELLITE (Earth to space) 5.552	FIXED-SATELLITE (Earth to space)				
	MOBILE	MOBILE				
	5.552A	5.552A				
47.5 – 47.9	FIXED	FIXED				
	FIXED-SATELLITE (Earth to space) 5.552 (space to Earth) 5.516B 5.54A	FIXED-SATELLITE (Earth to space) (space to Earth)				
	MOBILE	MOBILE				
47.9 – 48.2	FIXED	FIXED				
	FIXED-SATELLITE (Earth to space) 5.552	FIXED-SATELLITE (Earth to space)				
	MOBILE	MOBILE				
	5.552A					
48.2 – 48.54	FIXED	FIXED				
	FIXED-SATELLITE (Earth to space) 5.552 (space to Earth) 5.516B	FIXED-SATELLITE Earth to space) (space to Earth)				

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
	5.554A 5.555B MOBILE	MOBILE				
48.54 – 49.44	FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE 5.149 5.340 5.555	FIXED FIXED-SATELLITE (Earth to space) MOBILE RADIO ASTRONOMY				
49.44 – 50.2	FIXED FIXED-SATELLITE (Earth to space) 5.338A 5.552 (space to Earth) 5.516B 5.554A 5.555B MOBILE	FIXED FIXED-SATELLITE (Earth to space) (space to Earth) MOBILE				
50.2 - 50.4	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)				
50.4 - 51.4	FIXED FIXED-SATELLITE (Earth to space) 5.338A	FIXED FIXED-SATELLITE (Earth to space)				

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
	MOBILE					
	Mobile-satellite (Earth to space)	Mobile-satellite (Earth to space)				
		EU2				
51.4 - 52.6	FIXED 5.338A	FIXED				
	MOBILE	MOBILE				
		RADIO ASTRONOMY				
	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					
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				

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
	INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.547					
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)	SPACE RESEARCH (passive)				
	5.547	EU21				
57 - 58.2	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED				
	INTER-SATELLITE 5.556A	INTER-SATELLITE 5.556A				
	MOBILE 5.558	MOBILE				
	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	See ComReg document 02/71R (as revised)

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	
	5.547		Industrial probing radar	S.I. 112 of 2013	ECC/DEC/(11)02		
58.2 - 59	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)					
	FIXED	FIXED					
	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	See ComReg document 02/71R (as revised)
	5.547 5.556	EU6 EU19					
59 - 59.3	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)					
	FIXED	FIXED					
	INTER-SATELLITE 5.556A	INTER-SATELLITE					
	MOBILE 5.558	MOBILE					
	RADIOLOCATION 5.559	RADIOLOCATION	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	See ComReg document 02/71R (as revised)

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
		EU2 EU27				
59.3 - 64	FIXED	FIXED (59.3-62 GHz)				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE				
	RADIOLOCATION 5.559	RADIOLOCATION				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2011/829/EU	ERC/REC 70-03 ECC/DEC/(09)01	See ComReg Document 02/71R (as revised)
5.138	EU2 EU27					
64 - 65	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	5.547 5.556					
65 - 66	EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-SATELLITE				
	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				

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
	MOBILE except aeronautical mobile	MOBILE except aeronautical mobile				
	SPACE RESEARCH	SPACE RESEARCH				
	5.547	5.547				

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
66 - 71	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.553 5.558	MOBILE				
	MOBILE-SATELLITE	MOBILE-SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	5.554					
71 - 74	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Links (71–76 GHz and 81–86 GHz) for TDD and FDD use  See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (space to Earth)	MOBILE-SATELLITE (space to Earth)				
		EU27				
74 - 76	FIXED	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Links (71-76 GHz 81-86GHz) for TDD and FDD use  See ComReg documents 09/89R (as revised) and 09/89A



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 (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE	MOBILE				
	BROADCASTING	BROADCASTING				
	BROADCASTING-SATELLITE	BROADCASTING-SATELLITE				
	Space Research (space to Earth)	Space Research (space to Earth)				
	5.561		Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
76 - 77.5	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION			ERC/REC 70-03	
	Amateur	Amateur				
	Amateur-satellite	Amateur-satellite				
	Space Research (space to Earth)	Space Research (space to Earth)				
			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	See ComReg document 02/71R (as revised).
			Short Range Devices	National Legislation:	ERC/REC 70-03	See ComReg document

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
				S.I. 405 of 2002 S.I. 160 of 2006		02/71R (as revised)
	5.149	EU2				
77.5 - 78	AMATEUR	AMATEUR				
	AMATEUR-SATELLITE	AMATEUR-SATELLITE				
	Radio astronomy					
	Space research (space to Earth)	Space Research (space to Earth)				
	RADIOLOCATION 5.559B		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	See ComReg document 02/71R (as revised).
	5.149					
78 - 79	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-satellite	Amateur-satellite				
	Radio astronomy	Radio astronomy				
	Space research (space to Earth)	Space research (space to Earth)				
			Short Range Devices, Automotive short range radar (77-81 GHz)	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation:	ECC/DEC/(04)03	See ComReg document 02/71R (as revised)

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
				Decision 2004/545/EC		
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.149 5.560	EU2				
79 - 81	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	Amateur	Amateur				
	Amateur-satellite (space to Earth)	Amateur-satellite (space to Earth)				
	Space Research (space to Earth)					
				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	EU2				
81 - 84	FIXED 5.338A	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Links (71-76 GHz and 81-86GHz) for TDD and FDD use  See ComReg documents 09/89 and 09/89A
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)				

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
	MOBILE	MOBILE				
	MOBILE-SATELLITE (Earth to space)	MOBILE-SATELLITE (Earth to space)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	Space Research (space to Earth)	Space Research (space to Earth)				
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006	ERC/REC 70-03	See ComReg document 02/71R(as revised)
	5.149 5.561A	EU27				
84 - 86	FIXED 5.338A	FIXED	Fixed links (infrastructure)	National Legislation: S.I. 370 of 2009	ECC/REC/(05)07	Fixed Point-to-Point Links (71-76 GHz 81-86GHz) for TDD and FDD use
	5.561B					See ComReg documents 09/89R (as revised) and 09/89A
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)				
	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 (as revised)
	5.149					
86 - 92	EARTH EXPLORATION-	EARTH EXPLORATION-				

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
	SATELLITE (passive)	SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340					
92 - 94	FIXED 5.338A	FIXED				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	MOBILE	MOBILE				
	RADIOLOCATION	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	Radio astronomy				
	5.562 5.562A	EU2				
94.1 - 95	FIXED	FIXED				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	MOBILE	MOBILE				

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
	RADIOLOCATION	RADIOLOCATION				
	5.149	EU2				
95 - 100	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	5.149 5.554	EU2				
100 - 102	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340 5.341					
102 - 105	FIXED	FIXED				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	MOBILE	MOBILE				

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
	5.149 5.341					
105 - 109.5	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive)				
	5.149 5.341					
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					
111.8 - 114.25	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive)				
	5.149 5.341					
114.25 - 116	EARTH EXPLORATION-	EARTH EXPLORATION-				

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
	SATELLITE (passive)	SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	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					
119.98 – 122.25	EARTH EXPLORATION–SATELLITE (passive)	EARTH EXPLORATION–SATELLITE (passive)				
	INTER-SATELLITE 5.562C	INTER-SATELLITE 5.562C				
	SPACE RESEARCH (passive)					
	5.138 5.341					
122.25 - 123	FIXED	FIXED				
	INTER–SATELLITE	INTER–SATELLITE				
	MOBILE 5.558	MOBILE				



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
	Amateur	Amateur				
		Amateur-satellite				
			ISM (122-123 GHz)			
			Short Range Devices	National Legislation: S.I. 405 of 2002 S.I. 160 of 2006  European Legislation: Decision 2006/771/EC Decision 2011/829/EU	ERC/REC 70-03	See ComReg document 02/71R (as revised)
	5.138					
123 - 130	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE-SATELLITE (space to Earth)	MOBILE-SATELLITE (space to Earth)				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	Radio astronomy 5.562D	Radio astronomy				
	5.149 5.554					
130 - 134	EARTH EXPLORATION-SATELLITE (active) 5.562E	EARTH EXPLORATION-SATELLITE (active) 5.562E				
	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				

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
	MOBILE 5.558	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	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					
141 - 148.5	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	5.149					
148.5 - 151.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				

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
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340					
151.5 - 155.5	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	RADIOLOCATION	RADIOLOCATION				
	5.149					
155.5 - 158.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED	FIXED				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive) 5.562B				
	5.149 5.562F 5.562G					
158.5 - 164	FIXED	FIXED				
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				

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
	MOBILE	MOBILE				
	MOBILE-SATELLITE (space to Earth)	MOBILE-SATELLITE (space to Earth)				
164 - 167	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340					
167 – 174.5	FIXED	FIXED				
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE				
	5.149 5.562D					
174.5 - 174.8	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE				
174.8 - 182	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	INTER-SATELLITE 5.562H	INTER-SATELLITE 5.562H				

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)				
182 - 185	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340					
185 - 190	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	INTER-SATELLITE 5.562H	INTER-SATELLITE				
	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					
191.8 - 200	FIXED	FIXED				
	INTER-SATELLITE	INTER-SATELLITE				
	MOBILE 5.558	MOBILE				
	MOBILE-SATELLITE	MOBILE-SATELLITE				
	RADIONAVIGATION	RADIONAVIGATION				

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
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	5.149 5.341 5.554					
200 - 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					
209 - 217	FIXED	FIXED				
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.341					
217 - 226	FIXED	FIXED				
	FIXED-SATELLITE (Earth to space)	FIXED-SATELLITE (Earth to space)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				

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) 5.562B	SPACE RESEARCH (passive) 5.562B				
	5.149 5.341					
226 - 231.5	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				
	5.340					
231.5 - 232	FIXED	FIXED				
	MOBILE	MOBILE				
	Radiolocation	Radiolocation				
232 - 235	FIXED	FIXED				
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE	MOBILE				
	Radiolocation	Radiolocation				
235 - 238	EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)				
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	SPACE RESEARCH (passive)	SPACE RESEARCH (passive)				

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
	5.563A 5.563B					
238 - 240	FIXED	FIXED				
	FIXED-SATELLITE (space to Earth)	FIXED-SATELLITE (space to Earth)				
	MOBILE	MOBILE				
	RADIOLOCATION	RADIOLOCATION				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
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	See ComReg document 02/71R (as revised)



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
	5.138 5.149					
248 - 250	AMATEUR	AMATEUR				
	AMATEUR-SATELLITE	AMATEUR-SATELLITE				
	Radio astronomy	Radio astronomy				
	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					
252 - 265	FIXED	FIXED				
	MOBILE	MOBILE				
	MOBILE-SATELLITE (Earth to space)	MOBILE-SATELLITE (Earth to space)				
	RADIONAVIGATION	RADIONAVIGATION				
	RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.554					

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
265 - 275	FIXED	FIXED				
	FIXED–SATELLITE (Earth to space)	FIXED–SATELLITE (Earth to space)				
	MOBILE	MOBILE				
	RADIO ASTRONOMY	RADIO ASTRONOMY				
	5.149 5.563A					
275 - 3000	(Not Allocated)	(Not Allocated)				
	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-12. Additional information can be obtained from the ITU (see Annex 5).

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- 5.53** Administrations authorizing the use of frequencies below 8.3 kHz shall ensure that no harmful interference is caused thereby to the services to which the bands above 8.3 kHz are allocated.
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- 5.54** Administrations conducting scientific research using frequencies below 8.3 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.
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- 5.54A** Use of the 8.3-11.3 kHz frequency band by stations in the meteorological aids service is limited to passive use only. In the band 9-11.3 kHz, meteorological aids stations shall not claim protection from stations of the radionavigation service submitted for notification to the Bureau prior to 1 January 2013. For sharing between stations of the meteorological aids service and stations in the radionavigation service submitted for notification after this date, the most recent version of Recommendation ITUR RS.1881 should be applied. (WRC12)
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**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)

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**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.

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**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.

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**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.

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**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.

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**5.67A** Stations in the amateur service using frequencies in the band 135.7-137.8 kHz shall not exceed a maximum radiated power of 1 W (e.i.r.p.) and shall not cause harmful interference to stations of the radionavigation service operating in countries listed in No. 5.67. (WRC-07)

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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)

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**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.

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**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.

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**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.

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**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.WRC07)). (WRC07)

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**5.80A** The maximum equivalent isotropically radiated power (e.i.r.p.) of stations in the amateur service using frequencies in the band 472-479 kHz shall not exceed 1 W. Administrations may increase this limit of e.i.r.p. to 5 W in portions of their territory which are at a distance of over 800 km from the borders of Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia, Ukraine and Yemen. In this frequency band, stations in the amateur service shall not cause harmful interference to, or claim protection from, stations of the Aeronautical radionavigation service. (WRC12)

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**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)

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**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)

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**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.

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**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.

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**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)

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- 5.98** *Alternative allocation:* in Angola, Armenia, Azerbaijan, Belarus, Belgium, Cameroon, Congo (Rep. of the), Denmark, Egypt, Eritrea, Spain, Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Tunisia, Turkmenistan, Turkey and Ukraine, the band 1 810-1 830 kHz is allocated to the fixed and mobile, except aeronauticalAeronautical mobile, services on a primary basis. (WRC12)
- 5.99** *Additional allocation:* in Saudi Arabia, Austria, Iraq, Libya, Uzbekistan, Slovakia, Romania, Slovenia, Chad, and Togo, the band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronauticalAeronautical mobile, services on a primary basis. (WRC12)
- 
- 5.99** *Additional allocation:* in Saudi Arabia, Austria, Iraq, Libya, Uzbekistan, Slovakia, Romania, Slovenia, Chad, and Togo, the band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronauticalAeronautical mobile, services on a primary basis. (WRC12)
- 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.
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- 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

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- 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.
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- 5.107** *Additional allocation:* in Saudi Arabia, Eritrea,

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- 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)
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- 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**.
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- 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**.
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- 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)

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**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**.

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**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)

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**5.116** Administrations are urged to authorize the use of the band 3 155-3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 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.

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**5.127** The use of the band 4 000-4 063 kHz by the Maritime mobile service is limited to ship stations using radiotelephony (see No. **52.220** and Appendix **17**).

**5.130** 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)

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**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**).

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**5.132A** Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612 (Rev.WRC12)**. (WRC12)

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**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)

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**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)

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**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.

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**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. **5.280**,

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

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special 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.

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**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)

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**5.143B** In Region 1, 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)

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**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)

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**5.145A** Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed service. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612 (Rev.WRC12)**. (WRC12)

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**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)

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**5.155B** The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.

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**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.

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**5.157** The use of the band 23 350-24 000 kHz by the Maritime mobile service is limited to inter-ship radiotelegraphy

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**5.161B** *Alternative allocation:* in Albania, Germany, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Vatican, Croatia, Denmark, Spain, Estonia, Finland, France, Greece, Hungary, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Rep. of Macedonia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Monaco, Montenegro, Norway, Uzbekistan, Netherlands, Poland, Portugal, Kyrgyzstan, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Slovenia, Sweden, Switzerland, Turkey and Ukraine, the frequency band 42-42.5 MHz is allocated to the fixed and mobile services on a primary basis. (WRC12)

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**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)

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**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)

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**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.

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**5.210** *Additional allocation:* in Italy, the Czech Rep. and the United Kingdom, the bands 138-143.6 MHz and 143.65-144 MHz are also allocated to the space research service (space-to-Earth) on a secondary basis. (WRC07)

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**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)

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**5.218** *Additional allocation:* the band 148-149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. **9.21**. The bandwidth of any individual transmission shall not exceed  $\pm 25$  kHz.

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**5.219** The use of the band 148-149.9 MHz by the Mobile-satellite service is subject to coordination under 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.

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**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)

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**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)

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**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)

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**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)

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**5.228** The use of the frequency bands 156.7625-156.7875 MHz and 156.8125-156.8375 MHz by the Mobile-satellite service (Earth-to-space) is limited to the reception of automatic identification system (AIS) emissions of long-range AIS broadcast messages (Message 27, see the most recent version of Recommendation ITUR M.1371). With the exception of AIS emissions, emissions in these frequency bands by systems operating in the Maritime mobile service for communications shall not exceed 1 W. (WRC12)

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**5.228A** The frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz may be used by aircraft stations for the purpose of search and rescue operations and other safety-related communications. (WRC12)

**5.228AA** The use of frequency bands 161.9375-161.9625 MHz and 161.9875-162.0125 MHz by the maritime mobile-satellite (Earth to space) service is limited to the systems which operate in accordance with Appendix 18 (WRC-15)

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**5.228B** The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the fixed and Land mobile services shall not cause harmful interference to, or claim protection from, the Maritime mobile service. (WRC12)

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**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.

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**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)

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**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**.

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**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)

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

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**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).

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**5.261** Emissions shall be confined in a band of  $\pm 25$  kHz about the standard frequency 400.1 MHz.

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**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.

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**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.

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5.265 In the frequency band 403-410 MHz, Resolution 205 (Rev. WRC-15) applies (WRC-15)

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**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)

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**5.267** Any emission capable of causing harmful interference to the authorized uses of the band 406-406.1 MHz is prohibited.

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**5.268** Use of the band 410-420 MHz by the space research service is limited to communications within 5 km of an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from extra-vehicular activities shall not exceed  $-153$  dB(W/m<sup>2</sup>) for  $0^\circ \leq \delta \leq 5^\circ$ ,  $-153 + 0.077(\delta - 5)$  dB(W/m<sup>2</sup>) for  $5^\circ \leq \delta \leq 70^\circ$  and  $-148$  dB(W/m<sup>2</sup>) 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)

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**5.279A** The use of the frequency band 432-438 MHz 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 frequency band 432-438 MHz shall not cause interference to the aeronautical radionavigation service in China. The provisions of this footnote in no way diminish the Earth exploration-satellite service (active) to operate as a secondary service in accordance with Nos. 5.29 and 5.30 (WRC-15)

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**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.

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**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**.

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**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)

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**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

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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)

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- 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)
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- 5.287** Use of the frequency bands 457.5125-457.5875 MHz, 467.5125-467.5875 MHz by the maritime mobile service is limited to on-board communication stations. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-3. The use of these frequency bands in territorial waters is subject to the national regulations of the administration concerned. (WRC-15)
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- 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.
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- 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)

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- 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.
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- 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.
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- 5.311A** For the frequency band 620-790 MHz, see also Resolution 549 (WRC-07). (WRC-07)

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- 5.312A** In Region 1, the use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service is subject to the provisions of Resolution 760 (WRC-15). See also Resolutions 224 (Rev. WRC-15). (WRC-15)
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- 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 is 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-15)** shall apply as appropriate. (WRC-15)
- 
- 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-15)**, **760 (WRC-15)** and **749 (WRC-15)** where applicable. 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-15)
- 
- 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 (Rev. WRC-15)**. (WRC-15)
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- 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)

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**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)

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**5.328AA** The frequency band 1 087.7-1 092.3 MHz is also allocated to the aeronautical mobile-satellite (R) service (Earth to space) on a primary basis, limited to the space station reception of Automatic Dependent Surveillance-Broadcast (ADS-B) emissions from aircraft transmitters that operate in accordance with recognised international aeronautical standards. Stations operating in the aeronautical mobile-satellite (R) service shall not claim protection from stations operating in the aeronautical radionavigation service. Resolution **425 (WRC-15)** shall apply. (WRC-15)

**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)

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**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)

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**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-12)

**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, 81-86 GHz, and 92-94 GHz, Resolution **750 (WRC-15)** applies. (WRC-15)

**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, 10.68-10.7 GHz, 15.35-15.4 GHz, 23.6-24 GHz, 31.3-31.5 GHz, 31.5-31.8 GHz, 48.94-49.04 GHz, 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)	except those provided for by No. <b>5.422</b> , except those provided for by No. <b>5.483</b> , except those provided for by No. <b>5.511</b> ,  in Region 2, from airborne stations
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**5.340.1** The allocation to the Earth exploration-satellite service (passive) and the space research service (passive) in the band 50.2-50.4 GHz should not impose undue constraints on the use of the adjacent bands by the primary allocated services in those bands. (WRC-97)

**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)**

**5.341A** In Region 1, the frequency bands 1 427-1 452 MHz and 1 492-1 518 MHz are identified for use by administrations wishing to implement



International Mobile Telecommunications (IMT) in accordance with Resolution **223** (Rev. WRC-15), this identification does not preclude the use of these frequency bands by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. **9.21** with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. **5.342**. (WRC-15)

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**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).

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**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)

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**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.

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**5.351A** For the use of the bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660.5 MHz, 1 668-1 675 MHz, 1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 520 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)

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**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)

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**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**.

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**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).

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**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.

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**5.357A** **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)

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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.

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**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**.

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- 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.

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**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**.

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**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).

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**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)

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**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**).

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**5.376** Transmissions in the band 1 646.5-1 656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorized when such transmissions are used to extend or supplement the aircraft-to-satellite links.

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**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)

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**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.

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**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)

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**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)

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**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)

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**5.379E** In the band 1 668.4-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to stations in the meteorological aids service in China, Iran (Islamic Republic of), Japan and Uzbekistan. In the band 1 668.4-1 675 MHz, administrations are urged not to implement new systems in the meteorological aids service and are encouraged to migrate existing meteorological aids service operations to other bands as soon as practicable. (WRC-03)

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**5.380A** In the band 1 670-1 675 MHz, stations in the Mobile-satellite service shall not cause harmful interference

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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)

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**5.384A** The frequency bands, 1 710-1 885 MHz, 2 300-2 400 MHz and 2 500-2 690 MHz, or portions thereof are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev. WRC-15)**. 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-15)

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**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)

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**5.388** The frequency 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- (IMT). Such use does not preclude the use of these bands by other services to which they are allocated. The frequency bands should be made available for IMT in accordance with Resolution **212 (Rev.WRC-15)**. (See also Resolution **223 (Rev. WRC-15)**.) (WRC-15)

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**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 (IMT), in accordance with Resolution **221 (Rev.WRC-07)**. Their use by IMT 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

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allocated and does not establish priority in the Radio Regulations. (WRC-12)

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- 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)
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- 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)
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- 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.
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- 5.391** In making assignments to the mobile service in the frequency 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-15)
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- 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.
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- 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.

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- 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.
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- 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.
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- 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)
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- 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**. No. **9.21** does not apply to tropospheric scatter links situated entirely outside Region 1. 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-12)

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**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.

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**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)

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**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)

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**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)

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**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)

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**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)

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**5.420** The band 2 655-2 670 MHz may also be used for the mobile-satellite (Earth-to-space), except aeronautical mobile/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)

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**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.

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**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)

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**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.

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**5.426** The use of the band 2 900-3 100 MHz by the aeronautical radionavigation service is limited to ground based radars.

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**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**.

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**5.430A** The allocation of the frequency band 3 400-3 600 MHz to the mobile, except aeronautical mobile is subject to agreement obtained under No. **9.21**. This frequency band 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. The provisions of Nos. **9.17** and **9.18** shall apply in the coordination phase. 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  $-154.5$  dB(W/(m<sup>2</sup> · 4 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

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**5.431** *Additional allocation:* in Germany and Israel, the band 3 400-3 475 MHz is also allocated to the amateur service on a secondary basis. (WRC-15)

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**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. (WRC-15) (

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**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**.

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**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)

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**5.443AA** In the frequency bands 5 000-5 030 MHz and 5 091-5 150 MHz, the aeronautical mobile-satellite (R) service is subject to agreement obtained under No. **9.21**. The use of these bands by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC12)

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**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 (Rev. WRC-15)**. (WRC15)

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**5.443C** The use of the frequency band 5 030-5 091 MHz by the Aeronautical mobile (R) service is limited to internationally standardized aeronautical systems. Unwanted emissions from the Aeronautical mobile (R) service in the frequency band 5 030-5 091 MHz shall be limited to protect RNSS system downlinks in the adjacent 5 010-5 030 MHz band. Until such time that an appropriate value is established in a relevant ITUR Recommendation, the e.i.r.p. density limit of  $-75$  dBW/MHz in the frequency band 5 010-5 030 MHz for any AM(R)S station unwanted emission should be used. (WRC12)

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**5.443D** In the frequency band 5 030-5 091 MHz, the aeronautical Mobile-satellite (R) service is subject to coordination under No. **9.11A**. The use of this frequency band by the aeronautical Mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC12)

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**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 have priority over other uses of this frequency band. For the use of the band 5091-5 150 MHz, No. **5.444A** and Resolution **114 (Rev.WRC-15)** apply. (WRC-15)

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**5.444A** The use of the allocation to the fixed-satellite service (Earth-to-space) in the frequency band 5 091-5 150 MHz is limited to feeder links of non-geostationary satellite systems in the mobile-satellite service and is subject to coordination under No. **9.11A**.

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-15)**. Moreover, to ensure that the aeronautical radionavigation service is protected from harmful interference coordination is required for feeder links of non-geostationary satellite systems in the mobile-satellite service which are separated by less than 450km from the territory of an administration operating ground stations in the aeronautical radionavigation service. (WRC-15)

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**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-15)**;

– aeronautical telemetry transmissions from aircraft stations (see No. **1.83**) in accordance with Resolution **418 (WRC-15)**;

(WRC-15)

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**5.446** *Additional allocation:* in the countries listed in Nos. **5.369**, the frequency 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, (except Mexico) the frequency 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 **Bangladesh**, 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. (WRC-15)

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**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-12)**. (WRC-12)

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**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)

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**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**.

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**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.



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**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)

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**5.447F** In the frequency 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.1638-0 and ITU-R RS.1632-0. (WRC-15)

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**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)

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**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)

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**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)

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**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)

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**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.

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**5.450A** In the frequency 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.1638-0. (WRC-15)

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**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)

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**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.

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**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.

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**5.457A** In the frequency 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)**. In the frequency band 5 925-6 425 MHz earth stations located on board vessels and communicating with space stations of the fixed-satellite service may employ transmit antenna with a minimum diameter of 1.2m and operate without prior agreement of any administration if located at least 320km away from the low-water mark as officially recognised by the coastal State. All other provisions of Resolution 902 (WRC-03) apply. (WRC-15)

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**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.

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**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.

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**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**.

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**5.460** ; No emissions from space research service (Earth-to-space) systems intended for 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-15)

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**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.

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**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)

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**5.461AA** The use of the band 7 375-7 550 MHz by the maritime mobile-satellite service is limited to geostationary-satellite systems. (WRC-15)

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**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)

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**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:

–135 dB(W/m<sup>2</sup>) in a 1 MHz band for  $0^\circ \leq \theta < 5^\circ$

–135+ 0.5 ( $\theta - 5$ ) dB(W/m<sup>2</sup>) in a 1 MHz band for  $5^\circ \leq \theta < 25^\circ$

–125 dB(W/m<sup>2</sup>) in a 1 MHz band for  $25^\circ \leq \theta \leq 90^\circ$

(WRC-12)

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**5.463** Aircraft stations are not permitted to transmit in the band 8 025-8 400 MHz. (WRC-97)

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**5.465** In the space research service, the use of the band 8 400-8 450 MHz is limited to deep space.

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**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)

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**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.

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**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.

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**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)

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**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).

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**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.

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**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)

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**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.

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**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)

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**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)

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**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)

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**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)

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**5.497** The use of the band 13.25-13.4 GHz by the Aeronautical radionavigation service is limited to Doppler navigation aids.

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**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)

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**5.501A** The allocation of the frequency band 13.65-13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the frequency band by the space research service are on a secondary basis. (WRC-15)

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**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)

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**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)

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**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)

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**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.

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**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)

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**5.504B** Aircraft earth stations operating in the Aeronautical Mobile-satellite service in the frequency band 14-14.5 GHz shall comply with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643-0, 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-15)

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**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.

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**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)

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**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 and Malta, within the minimum distance given in Resolution **902 (WRC-03)** from these countries. (WRC-15)

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**5.508** *Additional allocation:* in Germany, France, Italy, Libya, 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-12)

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**5.508A** In the frequency band 14.25-14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, China, Côte d'Ivoire, Egypt, France, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, 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.1643-0, 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-15)

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**5.509A** In the frequency band 14.3-14.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, Cameroon, China, Côte d'Ivoire, Egypt, France, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, 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.1643-0, 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**. (WRC15)

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**5.510** Except for the use in accordance with Resolution 163 (WRC-15) and Resolution 164 (WRC-15) the use of the frequency 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. Uses other than feeder links for the broadcasting-satellite service are not authorised in Regions 1 and 2 in the frequency band 14.75-14.8 GHz. (WRC 15)

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**5.511A** Use of the frequency band 15.43-15.63 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of non-geostationary systems in the Mobile-satellite service, subject to coordination under No. **9.11A**. (WRC-15)

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**5.511C** Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340-0. 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.1340-0. (WRC-15)

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**5.511E** In the frequency band 15.4-15.7 GHz, stations operating in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the Aeronautical radionavigation service. (WRC12)

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**5.511F** In order to protect the radio astronomy service in the frequency band 15.35-15.4 GHz, radiolocation stations operating in the frequency band 15.415-15.7 GHz shall not exceed the power flux-density level of  $-156$  dB(W/m<sup>2</sup>) in a 50 MHz bandwidth in the frequency band 15.35-15.4 GHz, at any radio astronomy observatory site for more than 2 per cent of the time. (WRC12)

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**5.513** *Additional allocation:* in Israel, the band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. These services shall not claim protection from or cause harmful interference to services operating in accordance with the Table in countries other than those included in No. **5.512**.

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**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)

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**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**.

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**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.

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**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)

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**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)

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**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)

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**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.

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**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.

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**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.

**5.27A** The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (WRC-15). (WRC-15)

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**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**.

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**5.530A** Unless otherwise agreed between the administrations concerned, any station in the fixed or mobile services of an administration shall not produce a power flux-density in excess of  $-120.4\text{dB(W/(m}^2\text{ MHz))}$  at 3m above the ground of any point of the territory of any other administration in Regions 1 and 3 for more than 20% of the time. In conducting the calculations, administrations should use the most recent version of Recommendation ITUR P.452 (see Recommendation ITUR BO.1898). (WRC15)

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**5.530B** In the band 21.4-22 GHz, in order to facilitate the development of the broadcasting-satellite service, administrations in Regions 1 and 3 are encouraged not to deploy stations in the mobile service and are encouraged to limit the deployment of stations in the fixed service to point-to-point links. (WRC12)

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**5.530D** See Resolution **555 (WRC12)**. (WRC12)

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**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.

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**5.532B** Use of the band 24.65-25.25 GHz in Region 1 and the band 24.65-24.75 GHz in Region 3 by the fixed-satellite service (Earth-to-space) is limited to earth stations using a minimum antenna diameter of 4.5m. (WRC12)

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**5.533** The inter-satellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.

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**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.

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**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)

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**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.

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**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 the most recent version of Recommendation ITU-R SA.1862. (WRC-12)

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**5.536B** In Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran (Islamic Republic of), Ireland, Israel, Italy, the Libya, Jordan, Kenya, Kuwait, Lebanon, 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-15)

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**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**.

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**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)



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**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.

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**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.

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**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.

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**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)

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**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.

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**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.

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**5.545** *Different category of service:* in Armenia, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 31-31.3 GHz to the space research service is on a primary basis (see No. 5.33). (WRC12)

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**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)

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**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)

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**5.547C** *Alternative allocation:* in the United States, the band 32-32.3 GHz is allocated to the radionavigation and space research (deep space) (space-to-Earth) services on a primary basis. (WRC-03)

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**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)

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**5.549A** In the band 35.5-36.0 GHz, the mean power flux-density at the Earth's surface, generated by any spaceborne sensor in the Earth exploration-satellite service (active) or space research service (active), for any angle greater than 0.8° from the beam centre shall not exceed -73.3 dB(W/m<sup>2</sup>) in this band. (WRC-03)

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**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)

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**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 e<sub>pf</sub>d 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.1631-0 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle  $\Theta_{\text{min}}$  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-15)

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**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)

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**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.

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**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)

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**5.556A** Use of the bands 54.25-56.9 GHz, 57-58.2 GHz and 59-59.3 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, shall not exceed  $-147 \text{ dB(W/(m}^2 \cdot 100 \text{ MHz))}$  for all angles of arrival. (WRC-97)

**5.557A** In the band 55.78-56.26 GHz, in order to protect stations in the Earth exploration-satellite service (passive), the maximum power density delivered by a transmitter to the antenna of a fixed service station is limited to  $-26 \text{ dB(W/MHz)}$ . (WRC-2000)

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**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)

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**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  $-147 \text{ dB(W/(m}^2 \cdot 100 \text{ MHz))}$  for all angles of arrival. (WRC-97)

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**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)

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**5.559B** The use of the frequency band 77.5-78 GHz by the radiolocation service shall be limited to short-range radar for ground-based applications, including automotive radars. The technical characteristics of these radars are provided in the most recent version of Recommendation ITU-R M. 2057. The provisions of No. 4.10 do not apply (WRC-15)

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**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.

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**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)

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**5.561A** The 81-81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis. (WRC-2000)

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**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)

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**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)

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**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)

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**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  $-148 \text{ dB(W/(m}^2\text{.MHz))}$  for all angles of arrival. (WRC-2000)

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**5.562E** The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5-134 GHz. (WRC-2000)

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**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)

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**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)

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**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  $-144 \text{ dB(W/(m}^2\text{.MHz))}$  for all angles of arrival. (WRC-2000)

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**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)

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**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)

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**5.565** The following frequency bands in the range 275-1 000 GHz are identified for use by administrations for passive service applications 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.

The use of the range 275-1 000 GHz by passive services does not preclude use of this range by active service applications. Administrations wishing to make frequencies in the 275-1 000 GHz range available for active service applications are urged to take all practicable steps to protect these passive services from harmful interference until the date when the Table of Frequency Allocations is established in the above-mentioned 275-1 000 GHz frequency range.

All frequencies in the range 1 000-3 000 GHz may be used by both active and passive services. (WRC-12).



## 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.erodocdb.dk/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>EU9</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>EU 17A</b>	Use of the band by the mobile service is limited to SAP/SAB applications.
<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>EU20</b>	This fixed service band is designated for common use by civil and non civil users. Any user priorities in respect of preferred channels or sub-bands are to be determined after discussions between interested parties.
<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.
<b>EU23</b>	In the sub-bands 5660-5670 MHz (earth to space), 5830-5850 MHz (space to earth) and 10.45-10.50 GHz the Amateur-satellite additionally operates on a secondary and non interference basis to other services. In making assignments to other services, CEPT administrations are requested wherever possible to maintain these allocations in such a way as to facilitate the reception of amateur emissions with minimal power flux densities.
<b>EU24</b>	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).
<b>EU26</b>	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.
<b>EU27</b>	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.
<b>EU28</b>	CEPT administrations shall not deploy new fixed service systems in the band 11.7-12.5 GHz (ERC/DEC(00)08).
<b>EU29</b>	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.
<b>EU31</b>	The band 440-470 MHz is the tuning range for Private Wide Area Paging (PWAP).
<b>EU33</b>	The band 1880-1900 MHz is generally expected to be used by IMT/DECT
<b>EU35</b>	In Europe the band 75.5-76 GHz is also allocated to the Amateur and Amateur Satellite services.

## ANNEX 3 – ABBREVIATIONS AND DEFINITIONS

### ABBREVIATIONS

<b>AIS</b>	Automatic Identification System
<b>AM</b>	Amplitude Modulation
<b>AMSS</b>	Amplitude Modulation Signalling System
<b>ATC</b>	Air Traffic Control
<b>BWALA</b>	Broadband Wireless Access Local Area
<b>CEPT</b>	European Conference of Postal and Telecommunications Administrations
<b>DAB</b>	Digital Audio Broadcasting
<b>DECT</b>	Digital Enhanced Cordless Telecommunications
<b>DGPS</b>	Differential Global Positioning System
<b>DSC</b>	Digital Selective Calling
<b>DVB-T</b>	Digital Video Broadcasting Terrestrial
<b>E/S</b>	Earth to space direction of transmission
<b>ECC</b>	Electronic Communications Committee - A committee of the CEPT responsible for radio and telecommunication matters
<b>EESS</b>	Earth Exploration-Satellite Service
<b>ENG/OB</b>	Electronic News Gathering/Outside Broadcast
<b>EPIRB</b>	Emergency Position-Indicating Radio Beacon
<b>ERC</b>	European Radiocommunications Committee - A committee of the CEPT responsible for radio matters. Merged into the ECC and no longer in existence.
<b>ERC/DEC</b>	ERC Decision
<b>ERC/REC</b>	ERC Recommendation
<b>ECC/DEC</b>	ECC Decision
<b>ECG</b>	Electrocardiogram



<b>ECS</b>	Electronic Communication Service
<b>ELT</b>	Emergency Locator Transmitter
<b>ENG</b>	Electronic News Gathering
<b>ERO</b>	European Radiocommunications Office - A permanent office within CEPT dealing with radio and telecommunication matters
<b>e.r.p.</b>	Equivalent radiated power
<b>E.I.R.P.</b>	Equivalent isotropically radiated power
<b>ETSI</b>	European Telecommunication Standards Institute
<b>FM</b>	Frequency Modulation
<b>FSS</b>	Fixed satellite Service
<b>FSTV</b>	Fast Scan Television
<b>FWA</b>	Fixed Wireless Access
<b>FWALA</b>	Fixed Wireless Access Local Area
<b>FWPMA</b>	Fixed Wireless Point to Multipoint Access
<b>GHz</b>	Gigahertz - 1,000,000,000 Hertz
<b>GE75</b>	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.
<b>GE84</b>	ITU Geneva 1984 Plan for FM sound broadcasting stations in Region 1 and part of Region 3 in the band 87.5-108 MHz
<b>GE85-EMA</b>	ITU Geneva 1985 Regional Agreement concerning the planning of the Maritime radionavigation service (Radiobeacons) in the European Maritime Area
<b>GE85-MM-R1</b>	ITU Geneva 1985 Regional Agreement concerning the MF Maritime mobile and Aeronautical radionavigation Services (Region 1)
<b>GE06</b>	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
<b>GLONASS</b>	Global Satellite Navigation System (Russian Federation)
<b>GMDSS</b>	Global Maritime Distress and Safety System
<b>GPS</b>	Global Positioning System
<b>GSM</b>	Global System for Mobile Communications
<b>GSM-R</b>	Global System for Mobile Communications Railway

<b>HF</b>	High Frequency
<b>HRPT</b>	High Resolution Picture Transmission
<b>Hz</b>	Hertz, The unit of frequency measurement, (1 kHz = 1000 Hz, 1 MHz = 1000,000 Hz, 1GHz = 1000,000,000 Hertz)
<b>IALA</b>	International Association of Lighthouse Authorities
<b>IF</b>	Intermediate Frequency
<b>ILS</b>	Instrument Landing System
<b>IMT-2000</b>	International Mobile Telecommunications – 3rd generation Mobile Systems
<b>INTELSAT</b>	Satellite and telecommunications operating company
<b>INMARSAT</b>	Satellite and telecommunications operating company
<b>ISM</b>	Industrial, Scientific and Medical applications
<b>ITU</b>	International Telecommunication Union
<b>ITU-R</b>	Radiocommunication Sector of the ITU
<b>LAN</b>	Local Area Network
<b>LEO</b>	Low Earth Orbit
<b>LORAN C</b>	Radionavigation System
<b>MEO</b>	Medium Earth Orbit
<b>MHz</b>	Megahertz - 1,000,000 Hertz
<b>MLS</b>	Microwave Landing System
<b>MMDS</b>	Multichannel multipoint distribution service
<b>MSS</b>	Mobile Satellite Service
<b>MWS</b>	Multimedia Wireless System
<b>NAVTEX</b>	Navigation Text Messaging System
<b>PAMR</b>	Public Access Mobile Radio
<b>PMR</b>	Private Mobile Radio

<b>PMSE</b>	Programme Making and Special Events
<b>Primary</b>	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.
<b>RACON</b>	Radar Beacon
<b>RLAN</b>	Radio Local Area Network
<b>SAP/SAB</b>	Services Ancillary to Programme-making/Services Ancillary to Broadcasting
<b>SAR</b>	Search and Rescue
<b>SARSAT</b>	Search and Rescue Satellite Aided Tracking
<b>S-DAB</b>	Satellite Digital Audio Broadcasting
<b>SNG</b>	Satellite News Gathering
<b>S-PCS</b>	Satellite Personal Communications System
<b>S/E</b>	Space to Earth direction of transmission
<b>S.I.</b>	Statutory Instrument
<b>SRD</b>	Short Range Devices
<b>SRR</b>	Short Range Radar
<b>ST61</b>	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
<b>T-DAB</b>	Terrestrial Digital Audio Broadcasting
<b>TETRA</b>	Terrestrial Trunked Radio (Digital)
<b>UHF</b>	Ultra High Frequency
<b>UMTS</b>	Universal Mobile Telecommunications Systems
<b>VHF</b>	Very High Frequency
<b>VOR</b>	VHF Omnidirectional Omnidirectional Navigation
<b>VSAT</b>	Very Small Aperture Terminal
<b>WAN</b>	Wide Area Network

<b>WARC</b>	World Administrative Radio Conference
<b>WRC</b>	World Radiocommunication Conference

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## DEFINITIONS

<b>Allocation:</b>	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.
<b>Aeronautical mobile Service:</b>	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.
<b>Aeronautical Fixed Service:</b>	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.
<b>Aeronautical Mobile-satellite Service:</b>	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.
<b>Aeronautical radionavigation Service:</b>	A radionavigation service intended for the benefit and for the safe operation of aircraft.
<b>Amateur Service:</b>	A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by Amateur, that is, by duly authorised persons interested in radio technique solely with a personal aim and without pecuniary interest.
<b>Amateur-satellite Service:</b>	A radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service.
<b>Appendix 17</b>	Appendix 17 of the ITU Radio Regulations: Frequencies and channelling arrangements in the high frequency bands for the Maritime mobile service
<b>Appendix 18</b>	Appendix 18 of the Radio Regulations: Table of Transmitting frequencies in the band 156-174 MHz for stations in the Maritime mobile service
<b>Appendix 25</b>	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
<b>Appendix 26</b>	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
<b>Appendix 27</b>	Appendix 27 of the ITU Radio Regulations: Frequency allotment plan for the Aeronautical mobile (R) service and related information
<b>Appendix 30</b>	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)
<b>Appendix 30A</b>	Appendix 30A of the Radio Regulations: Provisions and associated plans for feeder links for the broadcasting-satellite services
<b>Article 12</b>	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
<b>Broadcasting Service:</b>	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.
<b>Broadcasting-Satellite Service:</b>	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.

<b>Citizen Band:</b>	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.
<b>Deep Space:</b>	Space at a distance from the Earth approximately equal to, or greater than, the distance between the earth and the moon.
<b>Earth Exploration-Satellite Service:</b>	A radiocommunication service between earth stations and one or more space stations which may include links between space stations, in which: information relating to the characteristics of the earth and its natural phenomena is obtained from active sensors or passive sensors on earth satellites; similar information is collected from airborne or earth based platforms; such information may be distributed to earth stations within the system concerned; platform interrogation may be included. This service may also include feeder links necessary for its operation.
<b>Emergency Position Indicating Radiobeacon Station</b>	A station in the mobile service the emissions of which are intended to facilitate search and rescue operations.
<b>Fixed Service:</b>	A radiocommunication service between specified fixed points.
<b>Fixed-satellite Service:</b>	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.
<b>Galileo:</b>	The European global satellite navigation system.
<b>Inductive Loop Systems:</b>	Systems which operate by producing a controlled magnetic field within which a predetermined recognisable signal is formed.
<b>Industrial, Scientific and Medical (ISM):</b>	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.
<b>Instrument Landing System (ILS):</b>	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.
<b>Inter-Satellite Service:</b>	A radiocommunication service providing links between artificial earth satellites.
<b>Land mobile Service:</b>	A mobile radiocommunications service between base stations and Land mobile stations or between Land mobile stations.
<b>Maritime mobile Service:</b>	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.
<b>Maritime Mobile-satellite Service:</b>	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.
<b>Maritime Radionavigation:</b>	A radionavigation service intended for the benefit and for the safe operation of ships.
<b>Meteorological Aids</b>	A radiocommunication service used for meteorological, including hydrological, observations and exploration.

**Service:**

<b>Meteorological-Satellite Service:</b>	An earth exploration satellite service for meteorological purposes.
<b>Mobile Service:</b>	A radiocommunication service between mobile and land stations, or between mobile stations.
<b>Mobile-satellite Service:</b>	A radiocommunication service between mobile earth stations and one or more space stations, or between space stations used by this service or between mobile earth stations by means of one or more space stations. This service may also include feeder links necessary for its operation.
<b>Radar:</b>	A radiodetermination system based on the comparison of reference signals with radio signals reflected, or retransmitted, from the position to be determined.
<b>Radar Beacon (RACON):</b>	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.
<b>Radio Astronomy:</b>	Astronomy based on the reception of radio waves of cosmic origin.
<b>Radio Astronomy Service:</b>	A service involving the use of radio astronomy
<b>Radiocommunications Service:</b>	A service involving the transmission, emission and/or reception of radio waves for specific telecommunications purposes.
<b>Radiodetermination:</b>	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.
<b>Radionavigation:</b>	Radiodetermination used for the purposes of radionavigation, including obstruction warning.
<b>Radiolocation:</b>	Radiodetermination used for purposes other than radionavigation.
<b>Radiosonde:</b>	An automatic radio transmitter in the meteorological aids service usually carried on an aircraft, free balloon, kite or parachute, and which transmits meteorological data.
<b>Safety Service</b>	Any radiocommunication service used permanently or temporarily for the safeguarding of human life and property.
<b>Secondary</b>	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: 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 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; 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. 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.
<b>Space Operations</b>	A radiocommunication service concerned exclusively with the operation of spacecraft, in particular space tracking, space telemetry and space telecommand.
<b>Space Research Service:</b>	A radiocommunication service in which spacecraft or other objects in space are used for scientific or technological research purposes.
<b>Standard frequency and</b>	A radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals or both, of stated high

**Time Signal Service:** precision, intended for general reception.

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**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.



## ANNEX 4 – OTHER RELEVANT DOCUMENTATION.

### EUROPEAN LEGISLATION

<b>Decision 2014/720/EU</b>	Commission Implementing Decision 2014/702/EU of 7 October 2014 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.
<b>Decision 2014/641/EU</b>	Commission Implementing Decision of 1 September 2014 on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union
<b>Decision 2014/276/EU</b>	Commission Decision of 2 May 2014 amending Decision 2008/411/EU on the harmonisation of the 3400-3800MHz frequency band for terrestrial systems capable of providing electronic communications services in the Community
<b>Decision 2013/752/EU</b>	Commission Decision of 11 December 2013 amending Decision 2006/771/EU on harmonization of the radio spectrum for use by short-range devices and repealing Decision 2005/928/EC
<b>Decision 2013/654/EU</b>	Commission Decision of 12 November 2013 amending Decision 2008/294/EC to include additional access technologies and frequency bands for mobile communications services on aircraft (MCA services)
<b>Decision 2011/829/EU</b>	Commission Decision of 8 December 2011 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.
<b>Decision 2011/485/EU</b>	Commission Decision of 29 July 2011 amending Decision 2005/50/EC 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
<b>Decision 2011/251/EU</b>	Commission Implementing Decision of 18 April 2011 amending 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
<b>Decision 2010/267/EU</b>	Harmonised technical conditions of use in the 790-862 MHz for terrestrial systems capable of providing ECS
<b>Decision 2010/166/EU</b>	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
<b>Decision 2009/766/EC</b>	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
<b>Decision 2009/449/EC</b>	Commission Decision of 13 May 2009 on the selection of operators of pan-European systems providing mobile satellite services (MSS).
<b>Decision 2009/343/EC</b>	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.
<b>Directive 2009/114/EC</b>	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
<b>Decision 2008/673/EC</b>	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.

<b>Decision 2008/671/EC</b>	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)
<b>Decision 2008/626/EC</b>	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)
<b>Decision 2008/477/EC</b>	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
<b>Recommendation 2008/295/EC</b>	Commission Recommendation of 7 April 2008 on authorisation of mobile communication services on aircraft (MCA services) in the European Community
<b>Decision 2008/294/EC</b>	Commission Decision of 7 April 2008 on harmonised conditions of spectrum use for the operation of mobile communication services on aircraft (MCA services) in the Community
<b>Decision 2007/344/EC</b>	Commission Decision of 16 May 2007 on harmonised availability of information regarding spectrum use within the Community.
<b>Decision 2007/131/EC</b>	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.
<b>Decision 2007/98/EC</b>	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
<b>Decision 2007/90/EC</b>	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)
<b>Decision 2006/804/EC</b>	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
<b>Decision 2005/631/EC</b>	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
<b>Decision 2005/82/EC</b>	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
<b>Decision 2005/50/EC</b>	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
<b>Decision 2004/545/EC</b>	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.
<b>Recommendation 2003/203/EC</b>	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
<b>Decision 2002/676/EC</b>	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)
<b>Directive 2002/22/EC</b>	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)

<b>Directive 2002/21/EC</b>	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)
<b>Directive 2002/20/EC</b>	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)
<b>Directive 2002/19/EC</b>	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)
<b>Decision 2001/148/EC</b>	Commission Decision of 21 February 2001 on the application of Article 3(3)(e) of Directive 1999/5/EC to avalanche beacons
<b>Decision 1999/128/EC</b>	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
<b>Directive 1999/5/EC</b>	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
<b>Decision 1991/288/EEC</b>	Council Recommendation 91/288/EEC on the coordinated introduction of digital European cordless telecommunications (DECT) into the Community
<b>Directive 1987/372/EEC</b>	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

## NATIONAL LEGISLATION

### PRIMARY LEGISLATION

<b>Number 18 of 2009</b>	Broadcasting Act 2009
<b>Number 20 of 2002</b>	Communications Regulation Act,
<b>Number 45 of 1926</b>	Wireless Telegraphy Act, 1926

### SECONDARY LEGISLATION

<b>S.I. 34 of 2014</b>	Wireless Telegraphy (Transfer of Spectrum Rights of Use) Regulations 2014
<b>S.I. 240 of 2014</b>	Wireless Telegraphy (Licensing of Telemetry Systems) Regulations 2014

<b>S.I. 554 of 2014</b>	Wireless Telegraphy (Interim GSM Mobile Telephony Licence) Regulations 2014
<b>S.I. 563 of 2013</b>	Wireless Telegraphy (1800MHz and Preparatory Licences in the 1800MHz Band) Regulations 2013
<b>S.I. 214 of 2013</b>	Wireless Telegraphy (Broadband Wireless Access Local Area Licence) Regulations 2013
<b>S.I. 213 of 2013</b>	Wireless Telegraphy (GSM for Railway Licence) Regulations 2013
<b>S.I. 169 of 2013</b>	Wireless Telegraphy Act 1926 (Section 3) (Exemption of Apparatus for Mobile Communications Services on Board Vessels ) Order 2013
<b>S.I. 112 of 2013</b>	Wireless Telegraphy Act 1926 (section 3) (Exemption of Level Probing Radars) Order 2013
<b>S.I. 111 of 2013</b>	Wireless Telegraphy Act 1926 (section 3) (Exemption of Ground Probing and Wall Probing Radars) Order 2013
<b>S.I. 19 of 2013</b>	Wireless Telegraphy (Interim GSM Mobile Telephony Licence) (Amendment) Regulations 2013
<b>S.I. 251 of 2012</b>	Wireless Telegraphy (Liberalised Use and Preparatory Licences in the 800 MHz, 900 MHz and 1800 MHz Bands) Regulations 2012
<b>S.I. 189 of 2011</b>	Wireless telegraphy (interim GSM mobile telephony licence) regulations 2011.
<b>S.I. 290 of 2010</b>	Wireless Telegraphy Act 1926 (Section 3)(Exemption of 406 MHz Personal Locator Beacons)
<b>S.I. 195 of 2010</b>	European Communities (public pan-European cellular digital land-based mobile communications) regulations 2010.
<b>S.I. 445 of 2009</b>	Wireless Telegraphy (UHF Television Programme Retransmission) Regulations, 2009
<b>S.I. 370 of 2009</b>	Wireless Telegraphy (Radio Link Licence) Regulations , 2009
<b>S.I. 343 of 2008</b>	Wireless Telegraphy Act 1926 (Section 3) (Exemption of Low Power Earth Stations On Board Vessels)
<b>S.I. 324 of 2008</b>	Wireless Telegraphy (Use of the Band 380 -400 MHz by Emergency Services) Regulations, 2008
<b>S.I. 178 of 2008</b>	Wireless Telegraphy Act 1926 (Section 3) (Exemption of Apparatus for Mobile Communication Services on Aircraft) order 2008
<b>S.I. 762 of 2007</b>	Wireless Telegraphy (National Point-to-Point and Point-to-Multipoint Block Licences)
<b>S.I. 295 of 2007</b>	Wireless Telegraphy (Fixed satellite Earth Stations and Teleport Facility) Regulations 2007
<b>S.I. 172 of 2007</b>	Wireless Telegraphy (1785 - 1805 MHz Wireless Access Platform for Electronic Communications Services) Regulations, 2007
<b>S.I. 414 of 2006</b>	Wireless Telegraphy (Ship Station Radio Licence) Regulations, 2006

<b>S.I. 304 of 2006</b>	Wireless Telegraphy (Wireless Public Address System) Regulations, 2006
<b>S.I. 296 of 2006</b>	Wireless Telegraphy (National Point-to-Point and Point-to-Multipoint Block Licences) Regulations, 2006.
<b>S.I. 160 of 2006</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Short Range Devices) (Amendment) Order, 2006
<b>S.I. 642 of 2005</b>	Statutory Instrument 642 of 2005 Wireless Telegraphy (Wideband Digital Mobile Data Services) Regulations 2005
<b>S.I. 197 of 2005</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Receive Only Apparatus For Wireless Telegraphy) Order 2005 (for Receive only apparatus)
<b>S.I. 128 of 2005</b>	Wireless Telegraphy Act 1926 (Section) (Exemption of certain classes of Land mobile Earth Stations) Order 2005
<b>S.I. 855 of 2004</b>	Irish Aviation Authority (Air Traffic Service Systems) Order, 2004
<b>S.I. 007 of 2004</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Low Power Aircraft Earth Stations) Order, 2004
<b>S.I. 530 of 2003</b>	Wireless Telegraphy (Fixed Wireless Access Local Area Licence) (Amendment) Regulations, 2003
<b>S.I. 529 of 2003</b>	Wireless Telegraphy (Multipoint Microwave Distribution System) REGULATIONS 2003.
<b>S.I. 505 of 2003</b>	Wireless Telegraphy Act, 1926 (section 3) (Exemption of Certain Classes of Fixed satellite Earth Stations) Order, 2003, S.I. No. 505 of 2003
<b>S.I. 340 of 2003</b>	Wireless Telegraphy (Third Generation and GSM Mobile Telephony Licence)(Amendment) (No.2) Regulations 2003
<b>S.I. 339 of 2003</b>	Wireless Telegraphy (GSM Mobile Telephony Licence) (Amendment) Regulations, 2003: S.I. No. 339 of 2003
<b>S.I. 338 of 2003</b>	Wireless Telegraphy (Fixed Wireless Point to Multi-point Access Licence) (Amendment) (no.2) Regulations, 2003: S.I. No. 338 of 2003
<b>S.I. 158 of 2003</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Mobile Telephones)(Amendment) Order, 2003: S.I. No. 158 of 2003
<b>S.I. 79 of 2003</b>	Wireless Telegraphy (Fixed Wireless Access Local Area Licence) Regulations, 2003 (S.I. No. 79)
<b>S.I. 467 of 2002</b>	Wireless Telegraphy (Fixed Wireless Point to Multi-Point Access Licence) (Amendment) Regulations, 2002 (S.I. 467 of 2002)
<b>S.I. 192 of 2009</b>	Wireless Telegraphy (Amateur Station Licence) Regulations, 2009
<b>S.I. 435 of 2002</b>	Wireless Telegraphy (Mobile Radio Systems) Regulations, 2002 (S.I. No. 435 of 2002)
<b>S.I. 405 of 2002</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Short Range Devices) Order, 2002
<b>S.I. 398 of 2001</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of certain classes of Land mobile Earth Stations) Order, 2001
<b>S.I. 273 of 2000</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Certain Fixed satellite Receiving Earth Stations) Order, 2000
<b>S.I. 287 of 1999</b>	Wireless Telegraphy (Fixed Wireless Point to Multi-Point Access Licence) Regulations, 1999
<b>S.I. 107 of 1999</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of DCS 1800 Mobile Terminals) Order, 1999
<b>S.I. 436 of 1998</b>	Wireless Telegraphy Act, 1926 (Section 3) Exemption of Citizens' Band (CB) Radios) Order, 1998

<b>S.I. 214 of 1998</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Satellite Earth Stations for Satellite personal communications services (S-PCS)) Order, 1998
<b>S.I. 410 of 1997</b>	Wireless Telegraphy (Cordless Telephones) Exemption Order, 1997
<b>S.I. 409 of 1997</b>	Wireless Telegraphy (Mobile Telephones) Exemption Order, 1997
<b>S.I. 93 of 1998</b>	Wireless Telegraphy Act, 1926 (Section 3) (Exemption of Short Range Business Radios) Order, 1993
<b>S.I. 123 of 1996</b>	European Communities (Mobile and Personal Communications) Regulations, 1996.
<b>S.I. 416 of 1994</b>	European Communities (co-ordinated introduction of public pan-european cellular digital land-based mobile communications-GSM) Regulations, 1994.
<b>S.I. 168 of 1994</b>	European Communities (Digital European Cordless Telecommunications — Dect) Regulations, 1994.
<b>S.I. 83 of 1988</b>	Wireless Telegraphy (Community Repeater Licence) Regulations, 1988.
<b>S.I. 320 of 1949</b>	Wireless Telegraphy (Business Radio Licence) Regulations, 1949, as amended.

## 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).

<b>13/55</b>	Update on the Multi-Band Spectrum Award process
<b>12/52</b>	Multi-band Spectrum Release: Information Memorandum
<b>11/90</b>	Response to Information Notice 10/84 - Licensing Regime for GSM for Railway Operations
<b>11/07</b>	Radiodetermination, Air Traffic and Maritime Services Licence Guidelines
<b>09/89</b>	Guidelines to Applicants for Radio Links Licences
<b>09/89A</b>	Application Form for a Radio Link Licence
<b>08/67</b>	Emergency Services Digital Radio ('ESDR') Licence, Guidance Notes and Application Form
<b>08/08R</b>	Revised Radio Licensing for Special Events and Temporary Use in Ireland (as revised)
<b>07/37</b>	Short Range Devices in the 10.5 - 10.6 GHz
<b>06/37</b>	Guidelines for National Point-to-Point and Point-to-Multipoint Block Licences in the 26 GHz Band
<b>06/26</b>	Guidelines for Applicants - Wireless Public Address System (WPAS)

<b>06/26a</b>	Application Form - Wireless Public Address System (WPAS)
<b>06/18</b>	Information Notice Comparative Evaluation Stage - Revised FWALA Licensing Process
<b>06/17R</b>	Revised Guidelines to Applicants for Fixed Wireless Access Local Area (FWALA) Licences
<b>06/17aR1</b>	Revised Application Form for Fixed Wireless Access Local Area (FWALA) Licence
<b>05/93</b>	Award of available spectrum: 1785 - 1805 MHz (ComReg and Ofcom)
<b>05/31</b>	Wideband Digital Mobile Data in the 420 MHz and 900 MHz bands
<b>04/107</b>	Wideband Digital Mobile Data Services in the 420MHz and 900 MHz bands
<b>04/42</b>	Technical Conditions For The Operation Of Digital Programme Services Distribution Systems
<b>04/41</b>	Technical Conditions For The Operation Of Analogue Programme Services Distribution Systems In Frequency Band 2500-2686 MHz
<b>04/28</b>	Technical Conditions for the operation of Digital Television Delivery Systems between 11.7GHz and 12.5GHz
<b>04/27</b>	Digital Television Delivery Systems at 12GHz, Guidance Notes for Applicants
<b>04/26</b>	Application Form for Digital Television Delivery Systems at 12GHz
<b>02/71R</b>	Revised Permitted Short Range Devices in Ireland (Refer to the most recent Revision of this document (at <a href="http://www.comreg.ie">www.comreg.ie</a> ) (as revised)
<b>02/12R</b>	Revised Paging Permit (On-site)- Application Form
<b>02/11R</b>	Revised Point to Multipoint Radio Link Licence, Guidance Notes and Application Form
<b>02/05R</b>	Revised Radio Experimenter Licence - Handbook
<b>02/04R</b>	Revised Radio Experimenter Licence - Application Form
<b>02/03R</b>	Community Repeater Licence - Application Form & Guidance Notes
<b>02/02R</b>	Temporary Business Radio Licence - Application Form
<b>00/64R</b>	Guidelines for applicants for satellite earth station licences in the Fixed satellite service in spectrum above 3 GHz
<b>00/07aR</b>	Guidelines for Business Radio Licences
<b>00/07R</b>	Revised Business Radio Licence - Application Form & Guidance Notes
<b>98/14R</b>	Revised Guidelines to Applicants for Radio Links - Point-to-Point above 1GHz Licences
<b>98/15R</b>	Revised 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 ECO website [www.ecodocdb.dk](http://www.ecodocdb.dk)

<b>ERC/ECC DECISIONS</b>	These Decisions are available to download from <a href="http://www.ecodocdb.dk/doks/doccategoryECC.aspx?doccatid=1">http://www.ecodocdb.dk/doks/doccategoryECC.aspx?doccatid=1</a>
<b>ECC/DEC/(16)01</b>	ECC Decision of 4 March 2016 on the harmonised frequency band 76-77 GHz, technical characteristics, exemption from individual licensing and free carriage and use of obstacle detection radars for rotorcraft use.
<b>ECC/DEC/(15)05</b>	ECC Decision of 3 July 2015 on the harmonised frequency range 446.0-446.2MHz. technical characteristics, exemption from individual licensing and free carriage and use of analogue and digital PMR446 applications.
<b>ECC/DEC/(13)01</b>	ECC Decision of 8 March 2013 on the use, free circulation, and exemption from individual licensing of Earth stations on mobile platforms (ESOMPs) in the frequency bands available for use by uncoordinated FSS Earth stations within the ranges 17.3-20.2 GHz and 27.5-30.0 GHz.
<b>ECC/DEC/(12)01</b>	ECC Decision of 1 June 2012 on Exemption from individual licensing and free circulation and use of terrestrial and satellite mobile terminals operating under the control of networks
<b>ECC/DEC/(11)01</b>	ECC Decision of 11 March 2011 on the protection of the Earth exploration satellite service (passive) in the 1400-1427 MHz band.
<b>ECC/DEC/(11)02</b>	ECC Decision of 11 March 2011 on Industrial level probing radar (LPR) operating in the frequency bands 6-8.5 GHz, 24.05-26.5GHz, 57-64GHz, and 75-85GHz
<b>ECC/DEC/(11)03</b>	ECC Decision of 24 June 2011 on the harmonised use of frequencies for Citizens' Band (CB) radio equipment.
<b>ECC/DEC/(11)06</b>	ECC Decision of 9 December 2011 on harmonized frequency arrangements for MFCN operating in the bands 3400-3600MHz/3600-3800MHz
<b>ECC/DEC/(10)01</b>	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)
<b>ECC/DEC/(10)02</b>	ECC Decision of 12 November 2010 on compatibility between the Fixed satellite service in the 30-31 GHz band and the Earth exploration satellite services (passive) in the 31.3-31.5 GHz band
<b>ECC/DEC/(09)02</b>	ECC Decision of 26 June 2009 on the harmonization of the bands 1610-1626.5/2483.5-2500Mhz for use by systems in MSS
<b>ECC/DEC/(09)03</b>	ECC Decision of 30 October 2009 on the harmonized conditions for MFCN in the band 790-862MHz
<b>ECC/DEC/(09)04</b>	ECC Decision of 30 October 2009 on the licence exemption of transit-only satellite terminals in 1613.8-1626.5MHz
<b>ECC/DEC/(08)08</b>	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

<b>ECC/DEC/(08)05</b>	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
<b>ECC/DEC/(08)01</b>	ECC Decision of 14 March 2008 on the harmonized use of the 5875 – 5925 MHz frequency band for Intelligent transport systems
<b>ECC/DEC/(07)02</b>	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)
<b>ECC/DEC/(06)13</b>	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
<b>ECC/DEC/(06)10</b>	ECC Decision of 1 December 2006 on transitional arrangements for the Fixed Service and tactical radio relay systems in the bands 1980-2010MHz and 2170-2200 MHz in order to facilitate the harmonised introduction and development of systems in the Mobile Satellite Service including those supplemented by a Complementary Ground Component
<b>ECC/DEC/(06)09</b>	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)
<b>ECC/DEC/(06)08</b>	ECC Decision of 1 Decemver 2006 on the conditions for use for of the radio spectrum by Ground –and –Wall Probing Radar (GPR/WPR) imaging systems
<b>ECC/DEC/(06)07</b>	ECC Decision of 18 November 2016 on the harmonised use of airborne GSM systems in the frequency bands 1710-1785 and 1805-1880 MHz and airborne UMTS systems in the frequency bands 1920-1980 MHz and 2110-2170 MHz
<b>ECC/DEC/(06)06</b>	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
<b>ECC/DEC/(06)05</b>	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
<b>ECC/DEC/(06)04</b>	ECC Decision of 24 March 2006 amended 6 July 2007 and 9 December 2011 on the harmonised conditions for devices using UWB technology in bands below 10.6 GHz

<b>ECC/DEC/(06)03</b>	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
<b>ECC/DEC/(06)02</b>	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.
<b>ECC/DEC/(06)01</b>	ECC Decision of 24 March 2006 amended 02 November 2012 on the harmonised utilisation of the bands 1920-1980 MHz, and 2110-2170 MHz for mobile/fixed communications networks (MFCN) including terrestrial IMT
<b>ECC/DEC/(05)11</b>	ECC Decision of 24 June 2005 on the free circulation and use of Aircraft Earth Stations (AES) in the frequency bands 14-14.5 GHz (Earth-to-space), 10.7-11.7GHz (space-to-Earth) and 12.5-12.75 GHz (Space-to-Earth)
<b>ECC/DEC/(05)10</b>	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)
<b>ECC/DEC/(05)09</b>	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)
<b>ECC/DEC/(05)08</b>	ECC Decision amended 8 March 2013 on the availability of frequency bands for high density applications in the Fixed-satellite Service (space-to-Earth and Earth-to-space)
<b>ECC/DEC/(05)03</b>	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)"
<b>ECC/DEC/(05)02</b>	ECC Decision of 18 March 2005 amended 8 November 2013 on the use of the frequency band 169.4-169.8125 MHz
<b>ECC/DEC/(05)01</b>	ECC Decision amended 8 March 2013 on the use of the band 27.5-29.5GHz by the Fixed Service and uncoordinated Earth stations of the Fixed-satellite Service (Earth-to-space)
<b>ECC/DEC/(04)10</b>	ECC Decision of 12 November 2004 on the frequency bands to be designated for the temporary introduction of Automotive Short Range Radars (SRR)
<b>ECC/DEC/(04)09</b>	ECC Decision of 12 November 2004 on the designation of the bands 1518-1524 MHz and 1670-1675 MHz for the Mobile-satellite Service
<b>ECC/DEC/(04)08</b>	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)
<b>ECC/DEC/(04)06</b>	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
<b>ECC/DEC/(04)03</b>	ECC Decision of 19 March 2004 on the frequency band 77-81 GHz to be designated for the use of Automotive Short Range Radars
<b>ECC/DEC/(03)05</b>	ECC Decision of 3 July 2015 on the publication of national tables of frequency allocations and utilisations
<b>ECC/DEC/(03)04</b>	ECC Decision of 17 October 2003 on the Exemption from Individual Licensing of Very Small Aperture Terminals (VSAT) operating in the frequency bands

	14.25 - 14.50 GHz Earth-to-space and 10.70-11.70 GHz space-to-Earth
<b>ECC/DEC/(02)10</b>	ECC Decision of 11 March 2010 on exemption from individual licensing of GSM-R mobile terminals operating within the frequency bands 876-880 MHz and 921-925 MHz for railway purposes
<b>ECC/DEC/(02)09</b>	ECC Decision of 11 March 2011 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
<b>ECC/DEC/(02)05</b>	ECC Decision of 8 March 2013 on the designation and availability of frequency bands for railway purposes in the 876-880 MHz and 921-925 MHz bands
<b>ECC/DEC/(02)04</b>	ECC Decision of 15 March 2002 on terrestrial (FS/BS) systems and uncoordinated Earth Stations in the FSS and BSS s-to-E in 40.5-42.5GHz
<b>ERC/DEC/(01)19</b>	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
<b>ERC/DEC/(01)17</b>	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
<b>ERC/DEC/(01)12</b>	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
<b>ERC/DEC/(01)11</b>	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
<b>ERC/DEC/(01)08</b>	ERC Decision of 12 March 2001 on harmonised frequencies, technical characteristics and exemption from individual licensing of Short Range Devices used for Movement Detection and Alert operating in the frequency band 2400 - 2483.5 MHz
<b>ERC/DEC/(00)08</b>	ERC Decision of 19 October 2000 on the use of the band 10.7-12.5 GHz by the fixed service and Earth stations of the broadcasting –satellite and Fixed-satellite service (space-to-Earth)
<b>ERC/DEC/(00)02</b>	ERC Decision of 27 March 2000 on the use of the band 37.5-40.5 GHz by the fixed service and Earth stations of the Fixed-satellite service (space –to-Earth)
<b>ERC/DEC/(00)07</b>	ERC Decision of 4 March 2016 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)
<b>ERC/DEC/(99)26</b>	ERC Decision of 29 November 1999 on Exemption from Individual Licensing of Receive Only Earth Stations (ROES)
<b>ERC/DEC/(99)15</b>	ERC Decision of 1 June 1999 on the designation of the harmonised frequency band 40.5 to 43.5 GHz for the introduction of Multimedia Wireless Systems (MWS) and Point-to-Point (P-P) Fixed Wireless Systems
<b>ERC/DEC(99)06</b>	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)
<b>ERC/DEC/(99)05</b>	ERC Decision of 10 March 1999 on Free Circulation, Use and Exemption from Individual Licensing of Mobile Earth Stations (S-PCS<1GHz)
<b>ERC/DEC/(98)15</b>	ERC Decision of 23 November 1998 on Exemption from Individual Licensing of Omnitrac terminals for the Euteltracs system

<b>ERC/DEC(97)02</b>	ERC Decision of 21 March 1997 on the extended frequency bands to be used for the GSM Digital Pan-European Communication System
<b>ERC/DEC(95)03</b>	ERC Decision of 1 December 1995 on the frequency bands to be designated for the introduction of DCS 1800
<b>ERC/DEC(94)03</b>	ERC Decision of 24 October 1994 : Frequency band to be designated for the coordinated introduction of the Digital European Cordless Telecommunications system
<b>ERC/DEC(94)01</b>	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>
<b>ECC/REC/(11)05</b>	Cross-border Coordination for Mobile/Fixed Communications Networks (MFCN) in the frequency band 2500-2690 MHz
<b>ECC/REC/(11)04</b>	Cross-border Coordination for Mobile/Fixed Communications Networks (MFCN) in the frequency bands 790-862 MHz
<b>ECC/REC/(11)01</b>	Guidelines to FWS in 24.5-26.5/27.5-29.5/31.8-33.4GHz Harmonised CEPT examination procedures for the LRC for non-solas vessels
<b>ECC/REC/(10)03</b>	Harmonised CEPT examination procedures for the Long Range Certificate for non-solas vessels
<b>ECC/REC/(08)02</b>	Frequency planning and frequency coordination for the GSM /UMTS/, LTE/WIMAX Land Mobile systems operating within the 900-1800 MHz bands
<b>ECC/REC/(08)01</b>	Use of the band 5855-5875 MHz for Intelligent transport systems
<b>ECC/REC/(06)04</b>	Use of the band 5725-5875 MHz for Broadband Fixed Wireless Access (BFWA)
<b>ECC/REC/(05)08</b>	Frequency planning and cross-border coordination between GSM Land Mobile Systems (GSM900, GSM 1800, GSM-R)
<b>ECC/REC/(05)07</b>	Radio frequency channel arrangements for Fixed Service systems operating in the bands 71-76 GHz and 81-86 GHz
<b>ECC/REC/(04)05</b>	Guidelines for accommodation and assignment of Multipoint Fixed Wireless systems in frequency bands 3.4-3.6 GHz and 3.6-3.8 GHz
<b>ECC/REC/(02)09</b>	Protection of Aeronautical Radio Navigation Service in the band 2700-2900 MHz from interference caused by the operation of Digital Cordless Cameras
<b>ECC/REC/(02)06</b>	Preferred channel arrangements for digital Fixed Service Systems operating in the frequency range 7125-8500 MHz
<b>ECC/REC/(02)02</b>	Preferred channel arrangement for fixed service systems (point-to-point and point-to-multipoint) operating in the frequency band 31.0-31.3 GHz
<b>ECC/REC/(01)04</b>	Recommended guidelines for the accommodation and assignment of multimedia wireless systems (MWS) and point-to-point (P-P) fixed wireless systems in the frequency band 40.5 – 43.5 GHz

<b>ERC/REC/(01)01</b>	Cross-border coordination for mobile/fixed communications networks (MFCN) in the frequency bands: 1920-1980 MHz and 2110-2170 MHz
<b>ERC/REC 70-03</b>	ERC Recommendation 70-03 (Tromsø 1997 and subsequent amendments) relating to the use of Short Range Devices (SRD)
<b>ERC/REC 54-01</b>	Method of measuring the maximum frequency deviation of FM broadcast emissions in the band 87.5 MHz to 108 MHz at monitoring stations
<b>ERC/REC 31-06</b>	The harmonized content of certificates issued by administrations for the GOC and ROC to facilitate the mutual recognition of these certificates
<b>ERC/REC 31-04</b>	Harmonised CEPT examination procedures for the SRC for NON-SOLAS vessels
<b>ERC/REC 25-10</b>	Frequency Ranges for Use of Terrestrial Audio and Video Programme Making and Special Events (PMSE) applications
<b>ERC/REC 14-03</b>	Harmonised radio frequency channel arrangements for low and medium capacity systems in the band 3400 MHz to 3600 MHz
<b>ERC/REC 14-02</b>	Radio-frequency channel arrangements for medium and high capacity analogue or high capacity digital radio-relay systems in the band 6425 MHz - 7125 MHz
<b>ERC/REC 14-01</b>	Radio-frequency channel arrangements for high capacity analogue and digital radio-relay systems operating in the band 5925 MHz - 6425 MHz
<b>ERC/REC 13-03</b>	The use of the band 14.0 - 14.5 GHz for Very Small Aperture Terminals (VSAT) and Satellite News Gathering (SNG)
<b>ERC/REC 13-02</b>	Channel arrangements for fixed services in the ranges 22.0-29.5GHz
<b>ERC/REC 12-07</b>	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
<b>ERC/REC 12-06</b>	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 10.7 GHz to 11.7 GHz
<b>ERC/REC 12-05</b>	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 10.0 - 10.68 GHz
<b>ERC/REC 12-03</b>	Harmonised radio frequency channel arrangements for digital terrestrial fixed systems operating in the band 17.7 GHz to 19.7 GHz
<b>ERC/REC 12-02</b>	Harmonised radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 12.75 GHz to 13.25 GHz
<b>T/R 32-02</b>	Frequencies to be used by on-board communication stations
<b>T/R 25-08</b>	Planning criteria and coordination of frequencies for the land mobile service in the range 29.7-470 MHz
<b>T/R 13-02</b>	Preferred channel arrangements for fixed services in the range 22.0-29.5 GHz
<b>T/R 13-01</b>	Preferred channel arrangements for fixed services systems operating in the range 1-2.3 GHz
<b>T/R 12-01</b>	Harmonized radio frequency channel arrangements for analogue and digital terrestrial fixed systems operating in the band 37-39.5 GHz
<b>ECTRA/DEC(97)02</b>	Harmonisation of authorisation conditions and coordination of procedures in the field of Satellite personal communications services (S-PCS) in Europe, operating within the band 1610-1626.5 MHz, 2483.5-2500 MHz, 1980-2010 MHz and 2170-2200 MHz.

## CEPT ARRANGEMENTS

<b>GE06 Agreements</b>	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)
<b>GE85-MM-R1</b>	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
<b>GE85-EMA</b>	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
<b>GE84</b>	Geneva Plan of 1984
<b>GE75</b>	The Final Acts of the Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3) Geneva, 1975
<b>MA02revCO07</b>	Final Acts of the CEPT Multi-lateral Meeting for the frequency band 1452 - 1479.5 MHz Constanța, 2007
<b>WI95revCO07</b>	Final Acts of the CEPT T-DAB Planning Meeting Constanța, 2007 Annex I, Annex II

## ITU DOCUMENTATION

### ITU DOCUMENTATION

<b>ITU-R M.824</b>	Technical Parameters of Radar Beacons
<b>ITU-R M.823</b>	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.
<b>ITU-R M.588-1</b>	Black and white facsimile transmissions over combined metallic and radio circuits in the Maritime mobile service and in the Maritime Mobile-satellite service
<b>ITU-R F.746</b>	Radio-frequency arrangements for fixed service systems
<b>ITU-R F.636</b>	Radio-frequency channel arrangements for radio-relay systems operating in the 15 GHz band.
<b>ITU-R F.387</b>	Radio-frequency channel arrangements for radio-relay systems operating in the 11 GHz band.
<b>ITU-R F.386</b>	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))
<b>ITU Resolution 217</b>	Implementation of wind profiler radars

## OTHER DOCUMENTATION

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**IALA recommendation  
R-101**

Recommendation R101 on Maritime Radar Beacons (RACONs)



## 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 Communications Office,  
Nyropsgade 37, 4th Floor,  
1602, Copenhagen  
Denmark.

**Tel:** +45 33 89 63 00

**Fax:** +45 33 89 63 30

**E-mail:** [eco@eco.cept.org](mailto:eco@eco.cept.org)

**Web Site:** <http://www.eco.cept.org>

### 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 Office,  
52 St Stephen's Green,  
Dublin 2  
Tel: 01 647 0834  
Email: [Publications@opw.ie](mailto:Publications@opw.ie)

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

The Commission for Communications Regulation,  
One Docklands Place,  
Guild Street,  
Dublin 1,  
D01 E4X0.

**Tel:** 01 804 9600

**Fax:** 01 804 9680

**Email:** [info@comreg.ie](mailto:info@comreg.ie)

**Web Site:** <http://www.comreg.ie>

## Notes

- 1 International Telecommunication Union: <http://www.itu.int/>
- 2 Frequency Arrangements and Results of the Multi-Band Spectrum Award Process; [http://www.comreg.ie/\\_fileupload/publications/ComReg12131.pdf](http://www.comreg.ie/_fileupload/publications/ComReg12131.pdf)
- 3 European Conference of Postal and Telecommunications Administrations: <http://www.cept.org/>.
- 4 [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)
- 5 <http://www.itu.int/>
- 6 <http://www.erodocdb.dk/Docs/doc98/official/pdf/ERCREP025.PDF>

**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, One Dockland Central, Guild Street, Dublin 1, Ireland, D01 E4X0 or to [info@comreg.ie](mailto:info@comreg.ie).

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

### Details of Proposed Change(s)

Page	Frequency Band	Comments on Specific Entries

### Other Comments



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