



Amateur Radio Band Plans

136kHz

No rigid bandplan is proposed for the 136kHz band, but amateurs are asked to work within the following conventions, giving long-distance communications and experimentation priority.

135.7-136.0	Station Tests and transatlantic reception window 135.900-135.980kHz preferred transatlantic window for Europe to North America transmissions of very slow telegraphy (CW)(QRSS)
136.0-137.4	Telegraphy (CW) 135.980-136.050kHz preferred transatlantic window for Europe/North America contacts.
137.4-137.6	Non-Telegraphy (CW) digital modes
137.6-137.8	Very slow telegraphy (CW) centred on 137.7kHz 137.700-137.800kHz preferred transatlantic window for North America to Europe transmissions

1.8MHz (160m)

	Max Bandwidth [Hz]	UK Usage
1.810-1.838	200	Telegraphy (CW)
1.838-1.840	500	All narrow band modes
1.840-1.842	2700	All modes
1.842-2.000	2700	Telephony (SSB) (Note 1), Telegraphy (CW), 1,843 kHz QRP (low power) centre of activity, 1,960kHz DF Contest beacons (14dBW) - 12.5kHz max b/w

Note 1: Lowest LSB carrier frequency (dial setting) should be 1,843kHz. AX25 packet should not be used on the 1.8MHz band.

Licence Notes: 1,810-1,850kHz Primary User: 26dBW permitted. 1,850-2,000kHz Secondary User: 15dBW permitted.

3.5MHz (80m)

	Max Bandwidth [Hz]	UK Usage
3.500-3.510	200	Telegraphy (CW) - Priority for inter-continental operation
3.510-3.560	200	Telegraph (CW) - contest preferred. 3,555kHz - QRS (slow telegraphy (CW)) centre of activity.
3.560-3.580	200	Telegraphy (CW). 3,560kHz - QRP (low power) centre of activity.
3.580-3.600	500	All narrow band modes. 3,590 - 3,600kHz AX25 packet
3.600-3.650	2700	All modes - Phone contest preferred (Note 1).
3.650-3.700	2700	(Note 2)
3.700-3.800	2700	All modes - Phone contest preferred 3,730 - 3,740kHz SSTV/FAX recommended
3.775-3.800		Priority for inter-continental telephony (SSB) operation

Note 1. Lowest LSB carrier frequency (dial setting) should be 3603kHz.

Note 2. 3,663kHz may be used by emergency communications groups.

Licence Notes: Primary User: Shared with other users services: 26dBW permitted.

7MHz (40m)

	Max Bandwidth [Hz]	UK Usage
7.000-7.035	200	Telegraphy (CW). 7,030kHz - QRP (low power) centre of activity
7.035-7.040	500	All narrow band modes
7.040-7.045	2700	All modes (Note 1) (Note 2)
7.045-7.200	2700	Telegraphy (CW), Telephony (SSB) (Note 3)

Note 1. Lowest LSB carrier frequency (dial setting) should be 7,043kHz. AX25 packet should not be used on the 7MHz band.

Note 2. 7,045kHz may be used by emergency communications groups.

Note 3. 7,090kHz may be used as an alternative frequency for emergency comms groups.

Licence Notes: Amateur and Amateur Satellite Service - Primary User: 26dBW permitted. -Secondary User: 7.100-7.200 - 22dBW permitted - Available on the basis of non-interference to other services (inside or outside the UK).

10MHz (30m)

	Max Bandwidth [Hz]	UK Usage
10.100-10.140	200	Telegraphy (CW) 10.116kHz - QRP (low power) centre of activity
10.140-10.150	500	All narrow band modes

AX25 packet should not be used on the 10MHz band.

Unattended Machine Generated Modes (Digimodes) should avoid the use of the 10MHz band. The 10MHz band is allocated to the Amateur Service only on a Secondary basis.

IARU has agreed that only CW and other narrow bandwidth modes are to be used on this band. Likewise, the band is not to be used for contests and bulletins.

SSB may be used on the 10MHz band during emergencies involving the immediate safety of life and property, and only by stations actually involved with the handling of emergency traffic. The band segment 10,120-10,140kHz may be used for SSB transmissions in the area of Africa south of the equator during local daylight hours.

Licence Notes: Amateur Service - Secondary User. 26dBW permitted

14MHz (20m)

	Max Bandwidth [Hz]	UK Usage
14.000-14.060	200	Telegraph (CW) - contest preferred 14,055kHz QRS (slow telegraphy (CW)) centre of activity
14.060-14.070	200	Telegraphy (CW). 14,060kHz QRP (low power) centre of activity
14.070-14.099	500	All narrow band modes. No unattended or Store & Forward ops. 14,089-14,099kHz AX25 packet preferred frequencies.
14.099-14.101	200	IBP - reserved exclusively for beacons
14.101-14.112	2700	All modes. AX25 packet preferred frequencies. MGM (Digimode) Store and Forward operations
14.112-14.125	2700	Telegraphy (CW), Telephony (SSB)
14.125-14.300	2700	All modes - Phone contest preferred. 14,230kHz SSTV/FAX centre of activity. 14,285kHz QRP centre of activity
14.300-14.350	2700	All modes

Licence Notes: Amateur Service - Primary User. 26dBW permitted. 14,000-14,250kHz Amateur Satellite Service - Primary User.

18MHz (17m)

	Max Bandwidth [Hz]	UK Usage
18.068-18.100	200	Telegraphy (CW). 18.096 QRP (low power) centre of activity.
18.100-18.109	500	All narrow band modes
18.109-18.111	200	IBP - reserved exclusively for beacons
18.111-18.168	2700	All modes

Licence Notes: Amateur and Amateur Satellite Service - Primary User. 26dBW permitted. The band is not to be used for contests or bulletins.

21MHz (15m)

	Max Bandwidth [Hz]	UK Usage
21.000-21.080	200	Telegraphy (CW). 21,055kHz QRS (slow telegraphy (CW)) centre of activity. 21,060kHz QRP (low power) centre of activity
21.080-21.120	500	All narrow band modes. 21,100-21,120kHz AX25 packet preferred.
21.120-21.149	200	Telegraphy (CW)
21.149-21.151	200	IBP - reserved exclusively for beacons
21.151-21.450	2700	All modes. 21,285kHz QRP centre of activity. 21,340kHz SSTV/FAX centre of activity.

Licence Notes: Amateur and Amateur Satellite Service - Primary User. 26dBW permitted.



24MHz (12m)

	Max Bandwidth [Hz]	UK Usage
24.890-24.920	200	Telegraphy (CW). 24,906kHz QRP (low power) centre of activity
24.920-24.929	500	All narrow band modes
24.929-24.931	200	IBP - reserved exclusively for beacons
24.931-24.990	2700	All modes

Licence Notes: Amateur and Amateur Satellite Service - **Primary User**. 26dBW permitted. The band is not to be used for contests or bulletins.

28MHz (10m)

	Max Bandwidth [Hz]	UK Usage
28.000-28.050	200	Telegraphy (CW)
28.050-28.150	500	All narrow band modes. 28,055kHz QRS (slow telegraphy (CW)) centre of activity. 28,060kHz QRP centre of activity. 28,120-28,150kHz AX25 packet preferred
28.150-28.190	200	Telegraphy (CW)
28.190-28.199	200	IBP - regional time shared beacons
28.199-28.201	200	IBP - world wide time shared beacons
28.201-28.225	200	IBP - continuous-duty beacons
28.225-29.200	2700	All modes. 28,360kHz QRP centre of activity. 28,680kHz SSTV/FAX centre of activity.
29.200-29.300	6000	All modes
29.300-29.510	6000	Satellite down-links
29.510-29.700	6000	All modes 29,530kHz Internet voice gateway - unattended 29,630kHz Internet voice gateway - unattended

Licence Notes: Amateur and Amateur Satellite Service - **Primary User**: 26dBW permitted. Beacons may be established for DF competitions except within 50km of NGR SK985640

50MHz (6m)

	Max Bandwidth	UK Usage
50.000-50.100	500Hz	Telegraphy 50.000-50.080 Beacons 50.090 Centre of telegraphy activity
50.100-50.500	2700Hz	All Narrow Band Modes. 50,100-50,130kHz Intercontinental telegraphy & SSB (Note 1). 50,110kHz DX calling (Note 2). 50.150 SSB centre of activity 50.185 Crossband centre of activity 50.200 MS centre of activity 50.250 PSK31 centre of activity 50.255 JT44 50.260-50.280 PSK441 50.270 FSK441 calling frequency
50.500-52.000	20kHz	All Modes. 50.510 SSTV (AFSK) 50.550 Fax working frequency 50.600 RTTY (FSK) 50.620-50.750 Digital communications 50.710-50.910 FM repeater outputs (20kHz channel spacing) 51.210 (Note 4) 51.210-51.410 FM repeater inputs (20kHz channel spacing) 51.430-51.590 FM (Note 3) 51.530 GB2RS news broadcast and slow Morse 51.910-51.950 Internet voice gateways 51.950-51.990 (Note 4)

Note 1. Only to be used between stations in different continents.

Note 2. No QSOs on this frequency. Always QSY when working intercontinental DX.

Note 3. 20 kHz channel spacing. Channel centre frequencies start at 51.430MHz.

Note 4. These frequencies may be used by emergency communications groups.

Licence Notes: Amateur Service 50.0-51.0MHz **Primary User**: 26dBW permitted, 51.0-52.0MHz **Secondary User**: 20dBW permitted - Available on the basis of non-interference to other services (inside or outside the UK).

Notes

For SSB operation the following convention applies:
Below 10MHz (with the exception of 5MHz NoVs) - Lower Sideband (LSB) Above 10MHz - Upper Sideband (USB)

The power levels shown in these band plans are for UK Full licences. Intermediate licensees are limited to 50W and Foundation licensees are limited to 10W. The holders of Intermediate and Foundation licences should refer to the appropriate RA licence booklet for full details.

70MHz (4m)

	Max Bandwidth	UK Usage
70.000-70.050	500Hz	Beacons 70.030 Personal beacons.
70.050-70.250	2700Hz	Narrow Band modes 70.085 PSK31 centre of activity 70.185 Cross-band activity centre 70.200 SSB/CW calling
70.250-70.300	20kHz	All Modes 70.260 AM/FM calling
70.300-70.500	20kHz	All modes channelised operations using 12.5kHz spacing 70.3000 RTTY/fax calling/working 70.3125 Digital modes 70.3250 Digital modes 70.3375 Digital modes 70.3500 Digital modes (Note 1) 70.3625 Digital modes 70.3750 (Note 1) 70.3875 Internet voice gateway 70.4000 (Note 1) 70.4125 Internet voice gateway 70.4250 FM simplex - used by GB2RS news broadcast 70.4375 Digital modes 70.4500 FM calling 70.4625 Digital modes 70.4875 Digital modes

Note 1. These frequencies may be used by emergency communication groups.

Licence Notes: Amateur Service 70.0-70.5 **Secondary User**: 22dBW permitted - Available on the basis of non-interference to other services (inside or outside the UK).

144MHz (2m)

	Max Bandwidth	UK Usage
144.000-144.035	500Hz	Telegraphy - EME exclusive
144.035-144.135	500Hz	Telegraphy 144.050 Telegraphy calling 144.100 Random MS telegraphy calling (Note 1)
144.135-144.150	500Hz	Telegraphy - 144.138 PSK31 centre of activity MGM - 144.140-144.150 FAI and EME activity CW
144.150-144.165	2700Hz	Telegraphy, MGM, SSB 144.150-144.160 FAI and EME activity SSB
144.165-144.360	2700Hz	Telegraphy and SSB 144.175 Microwave talk-back 144.195-144.205 Random MS SSB 144.250 GB2RS news broadcast and slow Morse 144.260 (Note 5) (USB) 144.300 SSB calling
144.360-144.400	2700Hz	Telegraphy, MGM, SSB 144.370 FSK441 random calling
144.400-144.490	500Hz	Telegraphy, MGM - Beacons only
144.490-144.500		(Guard band)
144.500-144.794	20kHz	All Modes 144.500 SSTV calling 144.525 ATV SSB Talk-back 144.600 RTTY calling 144.600+ - RTTY working (FSK) 144.625-144.675MHz (Note 5) 144.700 FAX calling 144.750 ATV Talk-back 144.775-144.794MHz (Note 5)



144MHz (2m) cont.

144.794-144.990	12kHz	MGM Packet radio 144.8000-144.9875 Digital modes (inc unattended) 144.8000 Unconnected nets - APRS, UiView etc 144.8250 High speed 25kHz channel 144.8500 AX25 BBS user access 144.8625 Available for nodes and BBSs on application 144.8750 TCP/IP user access 144.8875 AX25 - priority for DX Cluster access 144.9000 AX25 DX Cluster access 144.9250 TCP/IP user access 144.9500 AX25 BBS user access 144.9750 High speed 25kHz channel
144.990-145.1935	12kHz	FM RV48-RV63 Repeater input exclusive (Note 2)
145.200	12kHz	FM Space communications (eg ISS) - Earth-to-Space 145.2000 (Note 4) (Note 5)
145.200-145.5935	12kHz	FM V16-V48 FM simplex (Note 3) 145.2125 Internet voice gateway 145.2250 (Note 5) 145.2375 Internet voice gateway 145.2500 Used for slow Morse transmissions 145.2875 Internet voice gateway 145.3000 RTTY local 145.3375 Internet voice gateway 145.5000 Mobile calling 145.5250 Used for GB2RS news broadcast. 145.5500 Used for rally/exhibition talk-in
145.5935-145.7935	12kHz	FM RV48 - RV63 Repeater output (Note 2)
145.800	12kHz	FM Space communications (eg ISS) - Space-Earth
145.806-146.000	12kHz	All Modes - Satellite exclusive

Unattended beacons: for DF Contests only.

Note 1. Meteor scatter operation can take place up to 26kHz higher than the reference frequency.

Note 2. 12.5kHz channels numbered RV48-RV63. RV48 input=145.000MHz, output=145.600MHz.

Note 3. 12.5kHz simplex channels numbered V16-V46. V16=145.200MHz.

Note 4. Emergency Communications Groups utilising this frequency should take steps to avoid interference to ISS operations in non-emergency situations.

Note 5. These frequencies may be used by emergency communication groups.

Licence Notes: Amateur Service and Amateur Satellite Service: **Primary User:** 26dBW permitted.

430MHz (70cm)

IARU Recommended	UK Usage
430.0000-430.8100	430.0000-430.8100 Digital Communications (Notes 6,7) 430.0125 Internet voice gateway (Note 8) 430.0250 Internet voice gateway (Note 8) 430.0375 Internet voice gateway (Note 8) 430.0500 Internet voice gateway (Note 8) 430.0625 Internet voice gateway (Note 8) 430.0750 Internet voice gateway (Note 8) 430.6000-430.8000 (note 5) 430.8000 EmerComms 7.6MHz talkthrough - mobile TX
430.8100-431.0000	Repeater outputs 430.8100-430.9900 7.6MHz split repeaters (Note 1)
431.0000-432.0000	430.9900-431.9000 Digital Communications (Note 6) 431.075 Internet voice gateway (6dBW max) 431.125 Internet voice gateway (6dBW max) 431.150 Internet voice gateway (6dBW max) 431.175 Internet voice gateway (6dBW max)
432.0000-432.1500	432.0000-432.0250 Moonbounce 432.0500 CW centre of activity 432.0880 PSK31 centre of activity
432.1500-432.5000	432.2000 SSB centre of activity 432.3500 Microwave talkback calling frequency (Europe) 432.3700 FSK441 calling frequency

430MHz (70cm) cont.

432.5000-432.8000	432.5000 SSTV activity centre All modes 432.5000-432.6000 IARU Region 1 linear transponder outputs Non-channelised 432.6000 RTTY (FSK) activity centre 432.6000-432.7000 IARU Region 1 linear transponder inputs 432.6250 Digital communications 432.6500 Digital communications 432.6750 Digital communications 432.7000 Fax activity centre 432.7750 EmerComms 1.6MHz Talkthrough - base TX
432.8000-433.0000	432.8000-432.990 Beacons (Note 9)
433.0000-433.4000	RU240 (RBO)-RU270 (RB15) FM repeater outputs in UK only (Note 1) FM repeater outputs (25kHz channels)
433.4000-434.6000	433.4000 U272 (SU16) 433.4250 U274 (SU17) 433.4500 U276 (SU18) 433.4750 U278 (SU19) 433.5000 U280 (SU20) FM Calling channel 433.5250 U282 (SU21) 433.5500 U284 (SU22) Used for Rally/Exhibition talk-in 433.5750 U286 (SU23) 433.6000 U288 (SU24) RTTY AFSK 433.6250 Digital communications 433.6500 Digital communications 433.6750 Digital communications 433.7000 (Notes 3, 5 and 10) 433.7250-433.7750 (Note 5 and 10) 433.8000-434.2500 Digital communications 434.3750 EmerComms 1.6 MHz Talkthrough - mobile TX 434.4750 Internet voice gateway 434.5000 Internet voice gateway 434.5250 Internet voice gateway
434.6000-435.0000	433.4000 U272 (SU16) 433.4250 U274 (SU17) 433.4500 U276 (SU18) 433.4750 U278 (SU19) 433.5000 U280 (SU20) FM Calling channel 433.5250 U282 (SU21) 433.5500 U284 (SU22) Used for Rally/Exhibition talk-in 433.5750 U286 (SU23) 433.6000 U288 (SU24) RTTY AFSK 433.6250 Digital communications 433.6500 Digital communications 433.6750 Digital communications 433.7000 (Notes 3, 5 and 10) 433.7250-433.7750 (Note 5 and 10) 433.8000-434.2500 Digital communications 434.3750 EmerComms 1.6 MHz Talkthrough - mobile TX 434.4750 Internet voice gateway 434.5000 Internet voice gateway 434.5250 Internet voice gateway
435.0000-438.0000	Satellites and fast scan TV (Note 4)
438.0000-438.4250	438.0250-438.1750 (Note 5) Fast scan television 438.2000-439.4250 (Note 1) 438.4000 EmerComms 7.6MHz talkthrough - base TX
438.4250-438.5750	438.4250-438.5750 7.6MHz split repeaters Repeater inputs and fast scan TV
438.5750-439.7500	438.2000-439.4250 (Note 1) Fast scan television 439.6000-439.7500 Digital communications (Note 6)
439.7500-440.0000	439.7500-440.0000 Digital communications (Note 6)
<p>Note 1: In Switzerland, Germany and Austria, repeater inputs are 430.600-431.825MHz with 25kHz spacing and outputs are 438.200-439.425MHz. In France and the Netherlands repeater outputs are 430.025-430.375 with 25kHz spacing and inputs at 431.625-431.975MHz. In other European countries repeater inputs are 433.000-433.375MHz with 25kHz spacing and outputs at 434.600-545.975MHz, i.e. the reverse of the UK allocation.</p> <p>Note 3: IARU Region 1 Fax/AFSK.</p> <p>Note 4: Fast scan television carrier frequencies shall be chosen to avoid interference to other users, in particular the satellite service and repeater inputs. IARU Region 1 recommends that video carriers should be in the range 434.000-434.500MHz or 438.500-440.000MHz.</p> <p>Note 5: IARU Region 1 packet radio.</p> <p>Note 6: The DCC will recommend usage of this sub-band at a later date.</p> <p>Note 7: Users must accept interference from repeater output channels in France and the Netherlands in 430.025-430.375MHz. Users with sites that allow propagation to other countries (notably France and the Netherlands) must survey the proposed frequency before use to ensure that they will not cause interference to users in those countries.</p> <p>Note 8: Internet voice gateway channels: maximum deviation + -2.4kHz, maximum effective radiated power 10dBW.</p> <p>Note 9: The beacon band in the UK is scheduled to change to 432.400-432.500MHz when agreed by the Primary User.</p> <p>Note 10: These frequencies may be used by emergency communication groups.</p> <p>Licence Notes: Amateur service: Secondary User. Amateur satellite service: 435-438MHz. Secondary User Exclusion: 431-432MHz not available within 100km radius of Charing Cross, London. Power limit: 430-432MHz 16dBW EIRP PEP, 432-440MHz 26dBW.</p>	



1.3 GHz (23cm)

IARU Recommended	Max Bandwidth	UK Usage
1,240.000-1,243.250	150kHz	1240.150 Packet radio 1240.300 Packet radio 1240.450 Packet radio 1240.600 Packet radio 1240.750 Packet radio
All modes		
1,243.250-1,260.000 ATV		1,248.000 FM TV repeater input 1,249.000 FM TV repeater input
1,260.000-1,270.000 Satellites		Amateur satellite service - Earth to Space only
1,270.000-1,272.000 All modes		
1,272.000-1,291.000 ATV		1,276.500 AM TV input 1,280.000 FM TV Repeater input
1,291.000-1,291.500 Repeater Inputs		1,291.000 RMO (UK) 25kHz spacing to 1,291.375 RM15
1,291.500-1,296.000 All modes		
1,296.000-1,296.150 CW only		1,296.000-1,296.025 Moonbounce
1,296.150-1,296.800 SSB and CW		1,296.200 Narrow band centre of activity 1,296.400-1,296.600 Linear transponder input 1,296.500 SSTV 1,296.600 RTTY 1,296.700 FAX 1,296.600-1,296.800 Linear transponder output
(Note 1)		
1,296.800-1,297.000 Beacons exclusive		1,296.800-1,296.990 Beacons
1,297.000-1,297.500 Repeater outputs	25kHz	1,297.000 RMO (UK) to 1,297.375 RM15
1,297.500-1,298.000 FM simplex (Note 2)	25kHz	1,297.500 SM20 (UK) 25kHz spacing to 1,297.750 SM30 1,297.900 Internet voice gateway 1,297.925 Internet voice gateway 1,297.950 Internet voice gateway
1,298.000-1,299.000 All modes		Unattended remote control and beacons, and digital communications
1,299.000-1,300.000		*Unattended digital operation
	25kHz	1,299.000 Packet radio
	150kHz	1,299.425 Packet radio
	150kHz	1,299.575 Packet radio
	150kHz	1,299.725 Packet radio
1,300.000-1,325.000		TV repeater outputs (UK only) 1,308.000 FM TV repeater output 1,310.000 FM TV repeater output 1,311.500 AM TV repeater output 1,312.000 FM TV repeater output 1,316.000 FM TV repeater output

Note 1: Local traffic using narrow band modes should operate between 1,296.500 and 1,296.800MHz during contests and band openings.

Note 2: Stations in countries that do not have access to 1,298-1,300MHz may also use the FM simplex segment for digital communications.

Licence Notes: Amateur Service: **Secondary User:** 26dBW permitted. Amateur satellite service: 1,260-1,270MHz: **Secondary user** Earth to Space only: 26dBW. Unattended service not permitted in Northern Ireland. *In the sub-band 1,298-1,300MHz unattended operation is not allowed within 50km of SS206127 (Bude) or SE202577 (Harrogate).

2.3GHz (13cm)

IARU Recommended	Max Bandwidth	UK Usage
2,310.000-2,320.000		2,310.000-2,310.500 Repeater links
Sub-regional (National band plans)	200kHz 200kHz	2,310.100 Packet radio 2,310.300 Packet radio
2,320.000-2,320.150 CW exclusive		2,310.000-2,310.500 *Remote control 2,311.000-2,315.000 High speed data 2,320.000-2,320.025 Moonbounce
2,320.150-2,320.800 CW and SSB		2,320.200 SSB centre of activity
2,320.800-2,321.000 Beacons exclusive		2,320.800-2,320.990 Beacons
2,321.000-2,322.000 Simplex and repeaters (Note 1)		
2,322.000-2,400.000		2,322.000-2,355.000 ATV and ATV repeaters 2,355.100-2,364.000 Repeater links
	200kHz	2,355.100 Packet radio
	200kHz	2,355.300 Packet radio 2,356.000-2,360.000 *High speed data 2,364.000 *Packet radio 2,365.000-2,370.000 Repeaters 2,370.000-2,390.000 ATV and ATV repeaters 2,390.000-2,392.000 Moonbounce
	1,000kHz	2,435.000 ATV repeater outputs 2,440.000 ATV repeater outputs
2,400.000-2,450.000 Satellites		

Note 1: Stations in countries which do not have access to the all modes section (2,322-2,390MHz) use the simplex and repeater segment 2,320-2,322MHz for data transmission.

Note 2: Stations in countries that do not have access to the narrow band segment 2,20-2,322 MHz, use alternative narrow band segment 2,304-2,306MHz and 2,08-2,310MHz.

Note 3: The segment 2,433-2,443MHz may be used for ATV if no satellite is using the segment.

Licence Notes: Amateur Service: **Secondary User:** Users must accept interference from Scientific and Medical (ISM) users. 26dBW permitted. Amateur satellite service: 2,400-2,450MHz: **Secondary user:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. 26dBW permitted. *In the sub-bands 2,310.000-2,310.4125, 2,355-2,365 and 2,392-2,450MHz, unattended operation is not allowed in Northern Ireland or within 50km of SS206127 (Bude) or SE302577 (Harrogate).

3.4GHz (9cm)

IARU Recommended	UK Usage
3,400.000-3,402.000	3,410.000 Centre of activity
Narrow band	3,400.800-3,401.000 Beacons
CW/EME/SSB	3,401.000-3,402.000 Remote control
3,402.000-3,456.000	
All modes	
3,456.000-3,48.000	3,456.000 EME to USA
Narrow band	
CW/EME/SSB	
3,458.000-3,475.000	
All modes	

Licence Notes: Amateur Service: **Secondary User:** 26dBW permitted. Amateur satellite service: 2,400-2,450MHz: **Secondary user:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. Unattended operation is permitted for remote control, digital modes and beacons, except in the sub-bands 3,420-3,430MHz and 3,450-3,455MHz within 50km of SO916223 (Chellenham), SS206127 (Bude) and SE302577 (Harrogate).



5.7GHz (6cm)

IARU Recommended	UK Usage
5,650.000-5,668.000	
Satellite uplinks	Amateur satellite service - Earth to Space only
5,650.000-5,670.000	5.668.200 Alternative centre of activity
Narrow band	
CW/EME/SSB	
5,670.000-5,680.000	
All modes	
5,755.000-5,760.000	
All modes	
5,760.000-5,762.000	5,760.100 Current centre of activity
Narrow band	5,760.800-5,761.000 Beacons
CW/EME/SSB	
5,762.000-5,765.000	
All modes	
5,820.000-5,830.000	
All modes	
5,830.000-5,850.000	
Satellite downlinks	Amateur satellite service - Space to Earth only

Licence Notes: Amateur service: 5,650-5,680MHz, **Secondary User:** 26dBW permitted. 5,755-5,765 and 5,820-5,850MHz, **Secondary user:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. Amateur Satellite service: 5,650-5,670MHz and 5,830-5,850MHz, **Secondary User:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. 26 dBW permitted. Unattended operation is permitted for remote control, digital modes and beacons, except in the sub-bands 5,650-5,680MHz within 50km of SS206127 (Bude) and SE302577 (Harrogate).

24GHz (12mm)

IARU Recommended	UK Usage
24,000.000-24,050.000	
Satellites	24,025 Preferred operating frequency wideband equipment
	24,048-24,050MHz Narrowband operating
24,050.000-24,250.000	
All modes	

Licence Notes: Amateur service: 24,000-24,050MHz, **Primary user:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. 24,050-24,150MHz: **Secondary user:** May only be used with the written permission of Ofcom. Users must accept interference from Industrial, Scientific and Medical (ISM) users. 24,150-24,250MHz: **Secondary user:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. Amateur satellite service: 24,000-24,050MHz, **Primary user:** Users must accept interference from Industrial, Scientific and Medical (ISM) users. 26dBW permitted. Unattended operation is permitted for remote control, digital modes and beacons, except in the sub-bands 24,000-24,050MHz within 50km of SK985640 (Waddington) and SE302577 (Harrogate).

47GHz (6mm)

IARU Recommended	UK Usage
47,000.000-47,200.000	47.088 Centre of narrowband activity

Licence Notes: Amateur service and amateur satellite service, **Primary user:** 26dBW permitted. Unattended operation is permitted for remote control, digital modes and beacons, except within 50km of SK985640 (Waddington) and SE302577 (Harrogate).

10 GHz (3cm)

IARU Recommended	UK Usage
10,000.000-10,125.000	10,002.5-10,027.5 Wideband transponders - 015 OUT
	10,027.5-10,052.5 Wideband transponders - 040 OUT
Digital modes	10,052.5-10,077.5 Wideband transponders - 065 OUT
	10,080-10,090 Packet links
	10,090-10,110 Wideband beacons and operating (Note 1)
	10,110-10,120 Voice repeaters OUT
10,225.000-10,250.000	10,227.5-10,252.5 Wideband transponders - 425 OUT
All modes	10,252.5-10,227.5 Wideband simplex
10,250.000-10,350.000	10,277.5-10,302.5 Wideband transponders - 015 IN
Digital modes	10,302.5-10,327.5 Wideband transponders - 040 IN
10,350.000-10,368.000	10,327.5-10,352.5 Wideband transponders - 065 IN
All modes	10,352.5-10,368 Wideband modes
10,368.000-10,370.000	10,368-10,370 Narrowband modes (Note 3)
Narrowband	10,368.1 Centre of activity
CW/EME/SSB	10,368.8-10,369 Beacons
Beacons	
10,370.000-10,450.000	10,370-10,390 Wideband modes (Note 2)
	10,390-10,410 Wideband beacons and operating (Note 1)
All modes	10,412.5-10,437.5 Wideband transponders - 425 IN
	10,440-10,450 Voice repeaters RX
10,450.000-10,475.000	10,400-10,475 Unattended operation
	10,450-10,452 Alternative narrowband CW/EME/SSB (Note 3)
10,475.000-10,500.000	
All modes and satellites.	Amateur satellite service ONLY

Note 1. 10,400 is the preferred frequency for wideband beacons but 10,100 is still used.
Note 2. Wideband FM is preferred between 10,350-10,400 to encourage compatibility between narrowband systems, however there is still activity between 10,050-10,125MHz.
Note 3. The current NB sub-band is at 10,368MHz; however, a sub-band at 10,450MHz is being considered as a possible future alternative.
Note 4. Simplex TV operations should take place on wideband transponder inputs that are not being used by local transponders.
Note 5. Wideband transponder pairs are designated by input/output frequencies. The pairing shown are recommended but occasionally variants may be needed to suit local circumstances.
Note 6. 10,475-10,500MHz is allocated ONLY to the amateur satellite service and NOT to the amateur service.
Licence Notes: Amateur service: **Secondary User:** 26dBW permitted. Amateur Satellite service: 10,475-10,500MHz, **Secondary User:** 26dBW permitted. Unattended operation is permitted for remote control, digital modes and beacons, except in the sub-bands 10,000-10,125MHz within 50km of SO916223 (Cheltenham), SS206127 (Bude), SK985640 (Waddington) and SE302577 (Harrogate).

76GHz (4mm)

IARU Recommended	UK Usage
75,500.000-76,000.000	75,976 Centre of UK activity (Note 1)
76,000.000-77,500.000	
77,500.000-78,000.000	77,500 - 77,502 IARU recommended NB segment (Note 2)
78,000.000-81,000.000	

Note 1. Until 31 December 2006.
Note 2. After 1 January 2007

Licence Notes:
 75,500-76,000MHz Amateur service and amateur satellite service, **Primary user:**
 76,000-77,500MHz Amateur service and amateur satellite service, **Secondary user:**
 77,500-78,000MHz Amateur service and amateur satellite service, **Primary user:**
 78,000-81,000MHz Amateur service, **Secondary user:**
 79,000-81,000MHz Amateur satellite service, **Secondary user:** 26dBW permitted.
 78,000-79,000MHz is NOT allocated to the amateur satellite service

The following bands are also allocated to the amateur service and the amateur satellite service:

- 122,250-123,000MHz **Secondary user**
- 134,000-136,000MHz **Primary user**
- 136,000-141,000MHz **Secondary user**
- 142,000-144,000MHz **Primary user** (until 31 December 2006)
- 241,000-248,000MHz **Secondary user**
- 248,000-250,000MHz **Primary user**

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