

UK Band Plans 2003

136 kHz	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	StationTests and transatlantic reception window. 135.900–135.980 preferred transatlantic window for Europe to North America transmissions of very slow telegraphy (cw)(QRSS).	
136.0–137.4	Telegraphy (cw) 135.980–136.050 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) centered on 137.7kHz. 137.700–137.800 preferred transatlantic window for North America to Europe transmissions.	

1.8 MHz (160m)	Max Bandwidth [Hz]	UK Usage
1810–1838	200	Telegraphy (cw).
1838–1840	500	All narrow band modes.
1840–1842	2700	All modes.
1842–2000	2700	Telephony (SSB) (Note 1), Telegraphy (cw). 1.843 QRP (low power) calling frequency. 1.960 DF Contest beacons (14dBW) – 12.5 kHz max b/w.

Note 1: Lowest LSB carrier frequency (dial setting) should be 1843 kHz. AX25 packet should not be used on the 1.8 MHz band. LICENCE NOTES: 1.810–1.850 MHz. Primary User: 26dBW permitted. 1.840–2.000 MHz. Secondary User: 15dBW permitted.

3.5 MHz (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. 3.555 – QRS (slow telegraphy (cw)) calling frequency.
3.560–3.580	200	Telegraphy (cw). 3.560 – QRP (low power) calling frequency.
3.580–3.600	500	All narrow band modes. 3.590 – 3.600 AX25 packet.
3.600–3.650	2700	All modes – Phone contest preferred (Note 2).
3.650–3.700	2700	All modes. 3.690 – QRP (low power) calling frequency.
3.700–3.800	2700	All modes – Phone contest preferred. 3.730 – 3.740 SSTV/FAX recommended.
3.775–3.800		Priority for inter-continental telephony (ssb) operation.

Note 2: Lowest LSB carrier frequency (dial setting) should be 3603 kHz. LICENCE NOTES: Primary User: Shared with other users services: 26dBW permitted.

7 MHz (40m)	Max Bandwidth [Hz]	UK Usage
7000–7035	200	Telegraphy (cw). 7.030 – QRP (low power) calling frequency.
7035–7040	500	All narrow band modes.
7040–7045	2700	All modes (Note 3).
7045–7100	2700	Telegraphy (cw), Telephony (SSB).

Note 3: Lowest LSB carrier frequency (dial setting) should be 7043 kHz. AX25 packet should not be used on the 7 MHz band. LICENCE NOTES: Amateur and Amateur Satellite Service – Primary User. 26dBW permitted.

10 MHz (30m)	Max Bandwidth [Hz]	UK Usage
10100–10140	200	Telegraphy (cw). 10.106 – QRP (low power) calling frequency.
10140–10150	500	All narrow band modes.

AX25 packet should not be used on the 10 MHz band. Unattended Machine Generated Modes (Digimodes) should avoid the use of the 10 MHz 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. LICENCE NOTES: Amateur Service – Secondary User. 26dBW permitted.

14MHz (20m)	Max Bandwidth [Hz]	UK Usage
14000–14060	200	Telegraph (cw) – contest preferred
14060–14070	200	Telegraphy (cw). 14.055 QRS (slow telegraphy (cw)) calling frequency. 14.060 – QRP (low power) calling frequency.
14070–14099	500	All narrow band modes. No unattended or Store and Forward operations. 14.089 – 14.099 AX25 packet preferred frequencies.
14099–14101	200	IBP – reserved exclusively for beacons.
14101–14112	2700	All modes. AX25 packet preferred frequencies. MGM (Digimode) Store and Forward operations.
14112–14125	2700	Telegraphy (cw), Telephony (SSB)
14125–14300	2700	All modes – Phone contest preferred. 14.230 SSTV/FAX calling frequency. 14.285 QRP calling frequency.
14300–14350	2700	All modes

LICENCE NOTES: Amateur Service – Primary User. 26dBW permitted. 14.000–14.250 Amateur Satellite Service – Primary User.

18 MHz (17m)	Max Bandwidth [Hz]	UK Usage
18068–18100	200	Telegraphy (cw). 18.086 QRP (low power) calling frequency.
18100–18109	500	All narrow band modes.
18109–18111	200	IBP – reserved exclusively for beacons.
18111–18168	2700	All modes.

LICENCE NOTES: Amateur and Amateur Satellite Service – Primary User. 26dBW permitted.

21 MHz (15m)	Max Bandwidth [Hz]	UK Usage
21000–21080	200	Telegraphy (cw). 21.055 QRS (slow telegraphy (cw)) calling frequency. 21.060 QRP (low power) calling frequency.
21080–21120	500	All narrow band modes. 21.100 – 21120 AX25 packet preferred.
21120–21149	200	Telegraphy (cw).
21149–21151	200	IBP – reserved exclusively for beacons.
21151–21450	2700	All modes. 21.285 QRP calling frequency. 21.340 SSTV/FAX calling frequency.

LICENCE NOTES: Amateur and Amateur Satellite Service – Primary User. 26dBW permitted.

24 MHz (12m)	Max Bandwidth [Hz]	UK Usage
24890–24920	200	Telegraphy (cw). 24.906 QRP (low power) calling frequency.
24920–24929	500	All narrow band modes.
24929–24931	200	IBP – reserved exclusively for beacons.
24931–24990	2700	All modes.

LICENCE NOTES: Amateur and Amateur Satellite Service – Primary User. 26dBW permitted.

28 MHz (10m)	Max Bandwidth [Hz]	UK Usage
28000–28050	200	Telegraphy (cw).
28050–28150	500	All narrow band modes. 28.055 QRS (slow telegraphy (cw)) calling frequency. 28.060 QRP calling frequency. 28.120 – 28.150 AX25 packet preferred.
28150–28190	200	Telegraphy (cw).
28190–28199	200	IBP – regional time shared beacons.
28199–28201	200	IBP – world wide time shared beacons.
28201–28225	200	IBP – continuous-duty beacons.
28225–29200	2700	All modes. 28.360 QRP calling frequency. 28.680 SSTV/FAX calling frequency.
29200–29300	6000	All modes.
29300–29510	6000	Satellite down-links.
29510–29700	6000	All modes.

LICENCE NOTES: Amateur and Amateur Satellite Service – Primary User. 26dBW permitted. Beacons may be established for D.F. competitions except within 50km of NGR SK985640.

50MHz (6m)	Bandwidth Maximum 6dB	Mode	UK Usage
50.000	500Hz	Telegraphy	50.000–50.080 Beacons 50.090 Telegraphy centre
50.100 50.100	2700Hz	All narrow band modes (telegraphy, SSB, MGM etc)	50.100–50.130 Intercontinental Telegraphy/SSB (Note 1) 50.110 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 FSK441 50.270 FSK441 calling frequency
50.500 50.500	12kHz	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 51.210 Emergency comms priority 51.210–51.410 FM repeater Input channels (20kHz spacing) 51.430–51.590 FM (Note 3) 51.510 FM calling frequency (Note 4) 51.940–52.000 Emergency comms priority
<p>LICENCE NOTES: Amateur Service: 50.0–51.0MHz Primary. 51.0–52.0MHz Secondary. Available on the basis of non-interference to other services (inside or outside the UK). Power limit: 50.0–51.0MHz 26dBW PEP; 51.0 - 52.0MHz 20dBW PEP. Permitted modes: Morse, telephony, RTTY, data, fax, SSTV. Note 1: Only to be used for QSOs between stations in different continents. Note 2: No QSOs on this frequency. Always QSY when working intercontinental DX. Note 3: 20kHz channel spacing. Channel centre frequencies start at 51.430MHz. Note 4: Used by GB2RS and for slow Morse transmissions.</p>			

70MHz (4m) IARU		UK Usage
70.000 Beacons 70.050 70.050	70.030	Personal beacons
SSB and CW only 70.250 70.250 All modes 70.300 70.300	70.085 70.185 70.200 70.260	PSK31 centre of activity Cross-band activity centre SSB / CW calling AM / FM calling
Channelised operation using 12.5kHz channels 70.500	70.3000 70.3125 70.3250 70.3375 70.3500 70.3625 70.3750 70.3875 70.4000 70.4125 70.4250 70.4375 70.4500 70.4625 70.4875	RTTY / fax calling / working Digital modes Digital modes Digital modes Emergency comms priority Digital modes Emergency comms priority Internet voice gateway Emergency comms priority Internet voice gateway FM simplex – used by GB2RS Digital modes FM calling Digital modes Digital modes
<p>LICENCE NOTES: Amateur Service: Secondary. Available on the basis of non-interference to other services (inside or outside the UK). Power limit: 22dBW PEP; Permitted modes: Morse, telephony, RTTY, data, fax, SSTV.</p>		

144MHz (2m)	Maximum Bandwidth -6dB	Mode	UK Usage
144.000 144.035 144.035	500Hz	Telegraphy	EME exclusive
144.135 144.135	500Hz	Telegraphy, MGM	144.050 Telegraphy calling 144.100 Random MS telegraphy (Note 1) 144.138 PSK31 centre of activity 144.140–144.150 FAI & EME activity CW
144.150 144.150	2700Hz	Telegraphy, MGM, SSB	144.150–144.160 FAI & EME activity SSB
144.165 144.165	2700Hz	Telegraphy, SSB	144.175 Microwave talk-back 144.195–144.205 Random MS SSB 144.250 GB2RS and slow Morse 144.260 Emergency comms priority 144.300 SSB calling
144.360 144.360	2700Hz	Telegraphy, SSB, MGM	144.370 FSK441 random calling
144.399 144.400	500Hz	Telegraphy, MGM	Beacons only
144.490 144.490		(Guard band)	
144.500 144.500	20kHz	All mode	144.500 SSTV calling 144.525 ATV SSB talkback 144.600 RTTY calling 144.600± RTTY working (FSK) 144.630–144.660 Linear transponder out 144.660–144.690 Linear transponder in 144.700 FAX calling 144.750 ATV talkback 144.775–144.794 Emergency comms priority
144.794 144.794	12kHz	MGM	144.800 Packet radio 144.800–144.990 APRS Digital modes (inc unattended)
144.990 144.994	12kHz	FM	RV48–RV63 Repeater input exclusive (Note 2)
145.1935 145.200 145.206	12kHz	FM	Space communication (eg ISS)
145.5935 145.594	12kHz	FM	V16–V46 145.2125 Internet voice gateway 145.225 Emergency comms priority 145.2375 Internet voice gateway 145.250 Used for slow Morse transmissions 145.300 RTTY local 145.500 (Mobile) calling 145.525 Used for GB2RS 145.550 Used for rally / exhibition talk-in
145.7935 145.800 145.806	12kHz	FM	RV48 - RV63 Repeater output (Note 2) Space communication (eg ISS)
146.000	12kHz	All mode	Satellite exclusive
<p>LICENCE NOTES: Amateur Service: Primary; Amateur Satellite Service: Primary; Power limit: 26dBW; Permitted modes: Morse, telephony, RTTY, data, fax, SSTV; Unattended beacons: only for DF contests.</p> <p>Note 1: Meteor scatter operation can take place up to 26kHz higher than the reference frequency. Note 2: 2.5kHz channels numbered RV48–RV63. RV48 input = 145.000MHz, output = 145.600MHz. Note 3: 2.5kHz simplex channels numbered V16–V46. V16 = 145.200MHz.</p>			

430MHz (70cm) IARU	UK Usage	
430.000	430.000–430.810	Digital communications (Note 6, 7)
	430.0125	Internet voice linking (Note 8)
	430.0250	Internet voice linking (Note 8)
All modes	430.0375	Internet voice linking (Note 8)
	430.0500	Internet voice linking (Note 8)
	430.0625	Internet voice linking (Note 8)
	430.0750	Internet voice linking (Note 8)
	430.600–430.800	(Note 5)
430.810		
430.810	430.810–430.990	7.6MHz split repeaters
Repeater outputs (Note 1)		
431.000		
431.000		
All modes (Note 1)	430.990–431.900	Digital communications (Note 6)
432.000		
432.000	432.000–432.025	Moonbounce
CW, Datamodes	432.050	CW centre of activity
	432.088	PSK31 centre of activity
432.150		
432.150		
	432.200	SSB centre of activity
SSB, CW,	432.350	Microwave talkback calling frequency (Europe)
Datamodes	432.370	FSK441 calling frequency
432.500		
432.500	432.500–432.600	IARU Region 1 linear transponder outputs
	432.600–432.800	IARU Region 1 linear transponder inputs
All modes nonchannelised		
	432.500	SSTV activity centre
	432.600	RTTY (fsk) activity centre
	432.625	Digital communications
	432.650	Digital communications
	432.675	Digital communications
	432.700	Fax activity centre
432.800		
432.800	432.800–432.990	Beacons (Note 9)
Beacons		
433.000		
433.000		
FM repeater outputs in UK only (Note 1)	RU240 (RB0)– RU270 (RB15)	FM repeater outputs (25kHz channels)
433.400		

LICENCE NOTES: Amateur Service: Secondary. Amateur Satellite Service: 435–438MHz Secondary, Exclusion: 431–432MHz not available within 100km radius of Charing Cross, London. Power limit: 430–432MHz 16dBW ERP PEP, 432–440MHz 26dBW, Permitted modes: Morse, telephony, RTTY, data, fax, SSTV, FSTV. 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 430.025–430.375MHz 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 434.600–434.975MHz, ie the reverse of the UK allocation. **Note 2:** Emergency communications priority. **Note 3:** IARU Region 1 fax / AFSK. **Note 4:** Fast scan television carrier frequencies shall be chosen so

430MHz (70cm) IARU	UK Usage	
433.400	433.400 U272 (SU16)	
	433.425 U274 (SU17)	
	433.450 U276 (SU18)	
	433.475 U278 (SU19)	
FM simplex channels	433.500 U280 (SU20)	FM calling channel
	433.525 U282 (SU21)	
	433.550 U284 (SU22)	Used for rally / exhibition talk-in
	433.575 U286 (SU23)	
	433.600 U288 (SU24)	RTTY afsk
	433.625	Digital communications
	433.650	Digital communications
	433.675	Digital communications
	433.700	(Note 2, 3 and 5)
	433.725	(Note 2 and 5)
	433.750	(Note 2 and 5)
	433.775	(Note 2 and 5)
	433.800–434.250	Digital communications
434.600		
434.600		
FM repeater inputs in UK only (Note 1) and fast scan TV (Note 4)	RU240 (RB0)– RU270 (RB15)	FM repeater outputs (25kHz channels)
435.000		
435.000		
Satellites and fast scan TV (Note 4)		
438.000		
438.000		
Fast scan television	438.025–438.175	(Note 5)
	438.200–439.425	(Note 1)
438.425		
438.425		
Repeater inputs + fast scan TV	438.425–438.575	7.6MHz split repeaters
438.575		
438.575		
Fast scan television	438.200–439.425	(Note 1)
	439.600–439.750	Digital communications (Note 6)
439.750		
439.750		
Packet radio	439.750–440.000	Digital communications (Note 6)
440.000		

as 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. **Note 5:** IARU Region 1 packet radio. **Note 6:** The DCC will recommend usage of this sub-band at a later date. **Note 7:** Users must accept interference from F / PA repeater output channels in 430.025 to 430.375MHz. Users with sites which allow propagation to other countries (notably F and PA) must survey the proposed frequency before use to ensure that they will not cause interference to users of repeaters in those countries. **Note 8:** Internet voice linking channels: maximum deviation ± 2.4 kHz, maximum effective radiated power 10dBW. **Note 9:** The beacon band is scheduled to change to a new allocation 432.400–432.500MHz effective from 1 January 2004.

Addendum to 2 Meter Band Plans
144.625 to 144.675 and 145.2MHz emergency comms. priority.