

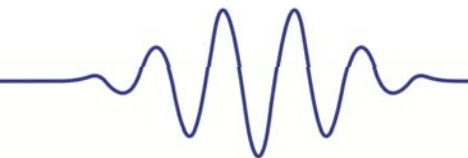
■ 2018 Draft Band Plan Changes

**RSGB Spectrum Forum
October 2017**



Radio Society of Great Britain

Advancing amateur radio since 1913



■ Background

- Band plan changes arise from:-
 - IARU Region-1 Conference
 - Occasional ETCC Updates
 - Queries/Feedback
 - Use changes
 - Corrections, formatting etc
- 2017 had deliberately few changes
- 2018 will thus be a catch up
- Drafts are for 5 MHz, 50 MHz, 144 MHz
- Others changes are smaller but include 70cm and a few microwave bands



5 MHz – 2017

- Several requests for clearer WRC-15 notes
- Had also been held over until Region-1 Conference

5 MHz (60m)	Available Width	UK Usage
5,258.5-5,264	5.5 kHz	5,262 kHz - CW QRP Centre of Activity
5,276-5,284	8 kHz	5,278.5 kHz - may be used for UK emergency comms traffic
5,288.5-5,292	3.5 kHz	Beacons on 5290 kHz (Note-2), WSPR
5,298-5,307	9 kHz	
5,313-5,323	10 kHz	5,317 kHz - AM 6kHz max. bandwidth
5,333-5,338	5 kHz	
5,354-5,358	4 kHz	
5,362-5,374.5	12.5 kHz	5,362-5,370 kHz - Digital mode activity in the UK
5,378-5,382	4 kHz	
5,395-5,401.5	6.5 kHz	
5,403.5-5,406.5	3 kHz	5,403.5kHz - USB common international frequency
Unless indicated, usage is all-modes (necessary bandwidth to be within channel limits)		
Note 1: Upper Sideband is recommended for SSB activity.		
Note 2: Activity should avoid interference to the experimental beacons on 5290 kHz		
Note 3: Amplitude Modulation is permitted with a maximum bandwidth of 6kHz, on frequencies with at least 6kHz available width		
Note 4: Contacts within the UK should avoid the WRC-15 allocation if possible		
LICENCE NOTES: Full Licensees only Secondary User: 100W max		
Note that specific conditions regarding operating, transmission bandwidth, power and antennas are specified in the Licence		

■ Band Plans – 5 MHz DRAFT

- Data and USB deletions, WSPR move
- OoB tweak, WRC-15 notes, Formatting inc fewer commas?

5 MHz (60m)	Available Width	UK Usage
5258.5 - 5264.0 kHz	5.5 kHz	5262 kHz CW QRP Centre of Activity
5276.0 - 5284.0	8 kHz	5278.5 kHz may be used for UK emergency comms traffic
5288.5 - 5292.0	3.5 kHz	Beacons on 5290 kHz (Note-2)
5298.0 - 5307.0	9 kHz	
5313.0 - 5323.0	10 kHz	5317 kHz AM 6kHz max. bandwidth
5333.0 - 5338.0	5 kHz	
5354.0 - 5358.0	4 kHz	Within WRC-15 Band
5362.0 - 5374.5	12.5 kHz	Partly within WRC-15 band, WSPR
5378.0 - 5382.0	4 kHz	
5395.0 - 5401.5	6.5 kHz	
5403.5 - 5406.5	3 kHz	
Unless indicated, usage is all modes (transmitted signal to be completely within band)		
Note 1: Upper Sideband is recommended for SSB activity.		
Note 2: Activity should avoid interference to the experimental beacons on 5290 kHz		
Note 3: Amplitude Modulation is permitted with a maximum bandwidth of 6kHz on frequencies with at least 6kHz available width		
Note 4: Contacts within the UK should avoid the WRC-15 band (5351.5 - 5366.5 kHz) if possible		
For further current guidance refer to the RSGB website		
LICENCE NOTES: Full Licensees only Secondary User: 100W (20dBW) max		
Note that specific conditions regarding operating, transmission bandwidth, power and antennas are specified in the Licence		

50 MHz – 2018 DRAFT

- SBP tweak
- 50.6 RTTY deleted
- New Note-6 enables 100kHz BW digital experiments

50.200-50.300	2.7 kHz	SSB/Telegraphy - General Usage (Note-7) 50.285 MHz Crossband Centre of Activity
50.300-50.400	2.7 kHz	MGM/Narrowband/Telegraphy 50.305 MHz PSK Centre of Activity 50.310-50.320 MHz EME 50.320-50.380 MHz MS
50.400-50.500		Propagation Beacons Only
50.500-52.000	12.5 kHz	All Modes. 50.510 MHz SSTV (AFSK) 50.520 MHz Internet voice gateway (10 kHz channels), (IARU common channel) 50.530 MHz Internet voice gateway (10 kHz channels), (IARU common channel) 50.540 MHz Internet voice gateway (10 kHz channels), (IARU common channel) 50.550 MHz Image/Fax working frequency 50.620-50.750 MHz Digital communications 50.630 MHz Digital Voice (DV) calling 50.710-50.890 MHz FM/DV Repeater Outputs (10 kHz channel spacing) 51.210-51.390 MHz FM/DV Repeater Inputs (10 kHz channel spacing) (Note 4) 51.410-51.590 MHz FM/DV Simplex (Note 3) (Note 4) 51.510 MHz FM calling frequency 51.530 MHz GB2RS news broadcast and slow morse 51.650 & 51.750 MHz See Note 5 (25kHz aligned) 51.770 & 51.790 MHz See Note 5 51.810-51.990 MHz FM/DV Repeater Outputs (IARU aligned channels)
Note 1: Only to be used between stations in different continents (not for intra-European QSOs).		
Note 2: 50.0-50.1 MHz is currently shared with Propagation Beacons. These are due to be migrated to 50.4-50.5 MHz, to create more space for Telegraphy and the Synchronised Beacon Project		
Note 3: 20 kHz channel spacing. Channel centre frequencies start at 51.430 MHz.		
Note 4: Embedded data traffic is allowed with digital voice (DV)		
Note 5: May be used for Emergency Communications and Community Events		
Note-6: Digital Experiments to support innovation may occur at 50.6, 51.0 or 51.7 MHz with a 100kHz maximum bandwidth on the basis they do not cause interference to other users		



144 MHz – 2017

- Fragmented narrowband area
- Old modes, inconsistent text on some items

144MHz (2m)	Necessary Bandwidth	UK Usage
144.000-144.025 MHz	2700Hz	All modes - including Satellite downlinks
144.025-144.110 MHz	500Hz	Telegraphy (including EME CW) 144.050 MHz Telegraphy Centre of Activity 144.100 MHz Random MS telegraphy calling (Note 1)
144.110-144.150	500Hz	Telegraphy and MGM 144.138 MHz PSK31 centre of activity EME MGM activity (Note 7)
144.150-144.180	2700Hz	Telegraphy, MGM and SSB
144.180-144.360	2700Hz	Telegraphy and SSB 144.175 MHz Microwave talk-back 144.195-144.205 MHz Random MS SSB 144.200 MHz Random MS SSB calling frequency 144.250 MHz GB2RS news broadcast and slow Morse 144.260 MHz USB. (Note 10) 144.300 MHz SSB Centre of Activity
144.360-144.399	2700Hz	Telegraphy, MGM, SSB 144.370 MHz MGM calling frequency
144.400-144.490		Propagation Beacons only
144.490-144.500		Beacon guard band
144.500-144.794	20 kHz	All Modes (Note-8) 144.500 MHz Image Modes centre (SSTV, Fax etc)

144 MHz – 2018 DRAFT

- Segments reformed as per IARU recommendations
- PSK31 deleted, more MGM, and various text tweaks

144MHz (2m)	Necessary Bandwidth	UK Usage
144.000-144.025 MHz	2700Hz	All modes - including Satellite downlinks
144.025-144.100 MHz	500Hz	Telegraphy (including EME CW) 144.050 MHz Telegraphy Centre of Activity 144.100 MHz Random MS telegraphy (Note 1)
144.100-144.150	500Hz	Telegraphy and MGM EME MGM activity (Note 7)
144.150-144.400	2700Hz	Telegraphy, MGM and SSB 144.175 MHz Microwave talk-back 144.200 MHz Random MS SSB 144.250 MHz GB2RS news broadcast and slow Morse 144.260 MHz See Note 10 144.300 MHz SSB Centre of Activity 144.370 MHz MGM MS calling
144.400-144.490		Propagation Beacons only
144.490-144.500		Beacon Guard Band 144.491-144.493 MHz Weak Signal MGM (BW: 500 Hz max)
144.500-144.794	20 kHz	All Modes (Note-8) 144.500 MHz Image Modes

NB: May also be basis of updated Exam Syllabus Handout

Others

- 70cms & 23cms will also have WS-MGM
- Review of 433 MHz for Digital Experiments
- 2.4 GHz alternative narrowband
- 70cm: ETCC provision for reverse 7.6 MHz multimode repeaters. Gateways & Hotspots
- New Guidance for 2.4 and 5GHz usage
 - When is it license-exempt
 - When is it under amateur licence
- Will all be in RadCom/online in due course

