



International Amateur Radio Union Region 1

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Source: RSGB – Murray Niman G6JYB, Spectrum Chair

Subject: Innovation Bands & Activities (Information Paper)

Committee(s): C5

Summary: The Information below is a short summary regarding the additional spectrum available to UK Full Licensees and how it is used. In general:-

- All require a strong justification, conditions to avoid interference and have a Strong Emphasis on Innovation & New Activities – not ‘More of the Same’
- They are renewable permits - not permanent allocations
- Renewal is based on regular progress reports to our regulator against the purpose it was made available for

Band	Main Conditions	Purpose & Highlights
70.5 – 71.5 MHz	100 Watts erp 500 kHz max BW 1 yr Permits Not in or within 40 km of Scotland and HCM 6dB/uV at Borders	Digital Experimentation Lower frequency (noisier) testing range for 146-147 MHz digital technologies More representative for WRC-19 AI-1.1 50 MHz
146 – 147 MHz	50 Watts erp 1 yr Permits HCM 6dB/uV at Borders Not in Isle of Man, Channel Isles and some restrictions in Scotland	Digital Innovation & Development Main development band for RB-DATV and other Digital experimentation
2300 – 2302 MHz	400 Watts Tx 3 yr permits Fixed locations. Not Isle of Man	Mitigation for UK Amateur Spectrum Loss EME and Narrowband Development RB-DATV (500kHz max BW)
>275 GHz	100mW Tx Designated sub-bands and 20km radii around Radio Telescopes 3yr Permits Fixed locations	EHF/Terahertz Technology Development Currently low power at 288 GHz with good frequency stability and low phase noise. Also supports WRC-19 AI-1.15 engagement

Previous Bands/Requests:-

- **9 kHz** – Small number of permits - now expired
- **40 MHz** – One Propagation Beacon – additional access refused

References

- [1] Harmonised Calculation Method (HCM) Agreement: <http://www.hcm-agreement.eu/>
- [2] 71 and 146 MHz: <https://rsgb.org/main/operating/band-plans/vhf-uhf/vhf-spectrum-release/>
- [3] 2302 MHz: <https://rsgb.org/main/operating/band-plans/microwaves/spectrum-release/>
- [4] 275 GHz: <https://rsgb.org/main/operating/band-plans/microwaves/terahertz/>