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Subject	Band Planning – 24 GHz		
Society	RSGB	Country:	United Kingdom
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Band Planning – 24 GHz

Introduction:

This paper updates a previous proposal for realigning wideband usage at 24 GHz into the 24,0 – 24,05 GHz amateur and amateur satellite service primary allocation.

Background:

At the 2013 Interim Meeting, RSGB proposed that the existing 24,125 GHz wideband designation was now quite isolated from other usage and should be moved to join other assignments in the Primary allocation in order to boost activity. The secondary allocation is also increasingly subject to use of short-range devices and other applications. Furthermore WRC-15 Agenda Item-1.10 proposes that other services use the 24 GHz range and studies for protecting the amateur services are based on our Primary usage. Finally in some countries the 24,05 – 24,15 GHz segment is not available to amateurs in any case.

Key points and proposal:

Existing IARU R1 policy is to focus activity in Primary segments where appropriate in the microwave/millimetre wave bands. This is especially true in 24 GHz. Over time all narrowband and EME activity has already migrated from 24 192 to 24 048 MHz. This has enabled IARU R1 and national societies to preferentially defend the Primary allocation, in exchange for offering greater sharing to other devices/services in the secondary segment.

As commercial uses increase it does give additional opportunities to adapt wideband equipment. For adaptations of video and high speed data systems we now consider there are two options which are usefully near the centre of the Primary segment:-

- 24 020 MHz (which is a 28 MHz offset if adapting/mixing from a 24 048 source)
- 24 025 MHz (a 100 MHz downward shift from the current designation)

Note that for narrowband usage we should continue to encourage use of the 24 048 MHz area (including compatible bandwidths such as FM Voice).

Recommendations:

We should continue to focus all 24 GHz activity in the Primary Allocation and thus:-

- Subject to discussion at the Conference, choose either 24 020 MHz or 24 025 MHz as the new wideband centre
- Delete the 'preferred' status of 24 125 MHz for wideband usage