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Subject	Common microwave frequency segments for DX and EME traffic		
Society	REF	Country:	France
Committee:	C5	Paper number:	
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Résumé en français

Titre de la contribution

Définition de segments communs aux pays de la région 1 pour trafic DX et EME en hyperfréquences.

Description

Il est proposé de retenir, pour le trafic DX et EME en hyperfréquences, des segments de 2 MHz dans chacune des bandes de fréquences entre 1,2 et 248 GHz. L'examen des plans de bandes de la plupart des sociétés de la région 1 montre que c'est possible.

Title

Common microwave frequency segments for DX and EME traffic.

Introduction

In region 1, radio amateurs use UHF and microwave bands for DX and EME traffic.

Background

Microwave Band Plans are not uniform across the various countries in Region 1, with the result that inter-country contacts are only possible with careful preparation, the use of split frequency working and pre-organised skeds.

Possible changes are to come during WRC 2015.

For 2,3, 5,7 and 10 GHz, few countries use the same segments and band plans, this gives rise to difficulties for DX QSOs via tropo and EME (and perhaps also via satellites).

Key point and proposal

A study of 20 Region 1 national band plans, reveals the following common segments:

- 432-434 MHz
- 1,296-1,298 GHz
- 2,320-2,322 GHz (alternative 2,304-2,306 GHz or 2,308-2,310 GHz)
- 3,400-3,402 GHz
- 5,668-5,670 GHz
- 5,760-5,762 GHz
- 10,368-10,370 GHz (alternative 10,450-10,452 GHz)
- 24,048-24,050 GHz (primary status)
- 47,000-47,002 GHz
- 75,500-75,502 GHz
- 77,500-77,501 GHz
- 122,250-122,251 GHz
- 134,000-134,001 GHz
- 248,000-248,001 GHz

From 432 MHz to 47 GHz band plan segments cover 2 MHz, above 77 GHz band plan segments cover only 1 MHz.

The proposal is to evaluate if these segments are the most effective common segments, taking into account possible evolutions due to new spectrum regulations (WRC 2015).

For example it should be possible to move the 10,368-10,370 GHz segment to 10,450-10,452 GHz with primary status.

In regions 2 and 3, band plans are to be looked at for possible common frequencies.

Recommendation

Examine the possibility of establishing common band segments for DX tropo and EME throughout Region 1 between 1,2 and 248 GHz, and inform Regions 2 and 3.

References

1. IARU region 1 microwave band plans
2. French Status
 - 430-434 MHz (secondary) and 434-440 MHz (equal rights)
 - 1,240-1,3000 GHz (secondary)
 - 2,320-2,450 GHz (secondary)
 - 5,650-5,850 GHz (secondary)
 - 10,000-10,450 GHz (secondary)
 - 24,000-24,050 GHz (primary)
 - 24,050-24,250 GHz (secondary)
 - 47,000-47,200 (primary)
 - 76,000-77,500 GHz (secondary)
 - 77,500-78,000 GHz (primary)
 - 78,000-81,500 GHz (secondary)
 - 122,250-123,000 GHz (secondary)
 - 134,000-136,000 GHz (primary)
 - 136,000-141,000 GHz (secondary)
 - 241,000-248,000 GHz (secondary)
 - 248,000-250,000 GHz (primary)