



# International Amateur Radio Union Region 1 2014 General Conference – Varna-Albena, Bulgaria

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<b>Subject</b>	<b>Common microwave frequency segments for DX and EME traffic</b>		
<b>Society</b>	REF	<b>Country:</b>	France
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## 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 seg-

ments, 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)