International Amateur Radio Union Region 1

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SUBJECT	145 MHz bandplan, EME/Tropo MGM		
Society	UBA	Country:	Belgium
Committee:	C5	Paper number:	19
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M(achine) G(enerated) M(ode) - 145 MHz
Addendum to the recommendation of the C.5. Committee meeting of San Marino

1. Introduction

The birth of MGM has opened new doors on the EME scene. Indeed, due to its specific de/coding and integration gain it provides, the particular JT44/JT65 mode for example (developed by K1JT) allows standard stations to enter the EME world, while in the past, it was only devoted to the well equipped ones. Moreover, beside EME, MGM is also of great interest for the Tropospherical propagation contacts & FAI.

We propose to specify a random calling frequency in the 2m band.

2. Background

The C.5. Committee meeting of San Marino has introduced MGM segments in the Band Planning, for Meteor Scatter (MS), as well as for EME/FAI & Tropo but for these last ones, a random calling frequency is still missing. For MS, 144,370 MHz has been approved.

MGM requires a good time and frequency synchronization of signals; sometimes well below the noise floor. As a random calling frequency is lacking, nowadays, it is necessary to appeal to some Internet assistance (logger, DX Cluster, Chat…) to find a partner. Usage of such assistance sometimes leads to deviancy.

The goal of this proposal is to fill in the gap by proposing a MGM EME/FAI/Tropo random calling frequency to be introduced in the band planning. It focuses on the 2m band but the proposal can be extended to the other bands.

The introduction of a random calling frequency in the EME/FAI/Tropo segments of the band plan devoted to MGM usage fills in the present gap there exists with respect to that. It would also allow to somewhat dike the current Internet misuse.

3. Key points and proposal

The segment 144,140 to 144,150 MHz, proposed to **MGM EME/FAI** usage for narrow bandwith transmissions of less that 500Hz, was approved during the meeting of San Marino.

The frequency 144,144 MHz is proposed as random calling frequency for MGM EME/Tropo/FAI modes with bandwith <500Hz.

If approved, this proposal should be co-ordinated with the **IARU R2 & R3** band plans, due to the world wide character of EME.

4. Recommendation

We recommend to assign a frequency as random calling frequency for Machine Generated Modes for EME/Tropo/FAI.