

IARU Region 1 Band plan

50 - 52 MHz IARU Region 1 bandplan

SAN MARINO 2002 I.A.R.U. Region 1 - Conference

C5 COMMITTEE REPORT

Appendix 2 Bandplanning principles

SUBJECT:

Machine Generated Modulation (MGM) - ALLOCATIONS IN THE 50, 145, 435, 1296 & 2320MHz BANDS SOCIETY

Committee C5

BACKGROUND:

Committee C5 agreed on the principal of using bandwidth as the criteria for the allocation of Machine Generate Modulation (MGM) modes in the VHF, UHF and microwave band plans.

The Committee also agreed that an exclusive Telegraphy sub-band is still required.

It was explained that there are different requirements for maximum bandwidth depending on the type of transmission. The working group therefore notes the need for two segments. One segment with maximum bandwidth up to 500 Hz (for modes like PSK31) and one segment up to 2700Hz (for modes like FSK441).

Based on bandwidth criteria one segment should be placed at the current border between Telegraphy and SSB. The second could be placed anywhere in the SSB segment.

A good solution will be the "high end" of the SSB sub-band.

- +/- 15kHz (30kHz wide) segments from the present borders between SSB and CW
- The lower 15kHz (in the Telegraphy portion) will be for MGM with a maximum bandwidth of 500Hz. This is primarily for EME operation.
- The upper 15kHz (in the SSB portion) will be used for MGM with a maximum bandwidth of 2700Hz.
- A 40kHz wide sub-band (in the SSB portion) immediately below the BEACON sub-band will be used for Telegraphy, SSB and MGM modes with maximum bandwidth of 2700 Hz.
- Activity centres will be allocated within these MGM segments.

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50MHz BAND: ADDITIONS

50.250 PSK31 centre of activities

50.255 JT44

50.260 - 50.280 FSK441

50.270 FSK441 calling frequency

Note: Because of differences in the 50MHz band plans allocations within the 50MHz band do not follow directly the recommendations given in the BACKGROUND section of this paper. However specific proposals for FSK441, JT44 and PSK31 have been recommended.

Appendix 3

50 - 52 MHz BANDPLAN - IARU Region 1 bandplan

Frequency	Maximum Bandwidth -6dB	Mode	Usage
50.000 - 50.100	500 Hz	TELEGRAPHY (a)	50.000 - 50.080 - Beacons 50.090 - Telegraphy centre of activity
50.100 - 50.500	2700 Hz	ALL NARROW-BAND MODES (TELEGRAPHY, SSB, MGM etc.) (b)	50.100 - 50.130 Intercontinental Telegraphy/SSB 50.110 DX Calling (c) 50.150 SSB Centre of activity 50.185 Crossband centre of activity 50.200 MS centre of activity 50.250 PSK31 Centre of activity 50.255 JT44 50.260 - 50.280 FSK441 50.270 FSK441 Calling freq
50.500 - 52.000	12 kHz	ALL MODES	50.510 SSTV (AFSK) 50.550 FAX working frequency 50.600 RTTY (FSK) 50.620 - 50.750 Digital communications 51.210 - 51.390 FM repeaters input channels, 20 kHz spacing (e) 51.410 - 51.590 FM 51.510 FM calling frequency 51.810 - 51.990 FM repeaters output channels, 20 kHz spacing (e)

Note:

c. The International DX calling frequency 50.110 MHz should not be used for calling within the European part of Region 1 at any time.

d. Channelized equipment: On this band the FM channel spacing is 20 kHz with 10 kHz offset.

e. In those countries within the European part of IARU Region 1 where it is allowed to set up FM repeaters on 50 MHz, the indicated channels are recommended in order to establish a commonality.

For numbering of NBFM channels see recommendation J

In those countries where the National Authorities do not permit repeaters to operate with output frequencies above 51MHz, repeater output frequencies may be 500kHz below the repeater input frequencies.