



International Amateur Radio Union Region 1 2011 Regional Conference – Sun City, South Africa 12 to 19 August 2011



Subject	Ratification of paper VIE10_C3_B21 Unmanned stations in the 70 cm band		
Society		Country:	
Committee:	C5	Paper Number:	SC11_C5_08
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Expanding the range for the unmanned stations in the 70 cm band

Background

New techniques such as “Digital Voice” and “Digital Data” encourage more radio amateurs to build and use unmanned stations to experiment in these modes. The 70 cm allocation for repeaters with -7.6 MHz shift is already heavily used, so we are in need of more frequencies for this kind of applications.

Current situation

The voice repeaters have input channels from 431.050 to 431.825 MHz and output frequencies from 438.650 to 439.425 MHz. This equals to 32 duplex-channels with a 25 kHz spacing.

The frequency-range from 439.4375 to 439.5875 MHz (and inputs 7.6 MHz lower) is already in use for Digital Voice in DL - HB - ON.

Proposal

Increase the number of channels for voice repeaters to 38 by changing the 70 cm band plan and then double this number by changing the spacing to 12.5 kHz:

4.5 430 - 440 MHz BAND PLAN

Frequency MHz	Maximum Bandwidth	Mode	Usage	
430.000 Sub-Regional (national band planning) (d)	20 kHz	All Modes	430.025 - 430.375	FM repeater output-channel freqs (F/PA/ON), 12,5 kHz spacing, 1.6 MHz shift (f)
			430.400 - 430.575	Digital communication link channels (g) (j)
			430.600 - 430.925	Digital communications repeater channels (g) (j) (l)
			430.925 - 431.025	Multi mode channels (j) (k) (l)
			431.050 - 431.9875	Repeater input channel freqs, 12.5 kHz spacing, 7.6 MHz shift (f)
			431.625 -	Repeater input channel freqs

Frequency MHz	Maximum Bandwidth	Mode	Usage	
432.000			431.975	(F/PA/ON), 12.5 kHz spacing, 1.6 MHz shift

Frequency MHz	Maximum Bandwidth	Mode	Usage	
434.594 ATV (c) & FM	12 kHz (c)	All Modes		Repeater Output (region 1 system), 25 kHz spacing, 1.6 MHz shift, (Channel freq 434.600 --
435.000	20 kHz (c)	Satellite service & ATV (c)		
438.000 ATV (c) & Sub-Regional (national band planning) (d)	20 kHz (c)	All Modes	438.025 - 438.175	Digital communications channel frequency (g)
			438.200 - 438.525	
			438.550 - 438.625 438.650 - 439.5875	Digital communications repeater channels (g) (j) (l)
440.000			439.800 -- 439.975 439,9875	Multi-mode (j) (k) (l) Repeater output channels, 12,5 kHz spacing, 7.6 MHz shift, (f) Digital communications link channels (g) (j) POCSAG centre

Remarks

Allow the possibility of 6.25 kHz channels on all the repeater frequencies for the use of narrow band modes with a maximum bandwidth of 6 kHz.

In the course of discussion, VERON and REF noted that there could be a clash with input frequencies on their existing repeaters, but it should be possible to avoid this with good cross-border coordination of frequency planning.

Proposal amended to read “Repeater input and digital channels ...” rather than just repeater input ...”

With this amendment, a vote was taken on the recommendations in the paper:

In favour: 8.

Abstain: VERON, RSGB, OeVSV, EDR, SSA, ARI, PZK, UARL.