



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



Subject	28 MHz band plan: channels FM-repeaters		
Society	UBA	Country:	Belgium
Committee:	C4	Paper number:	SC11_C4_11 rev1
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Introduction

The current 29MHz FM repeater allocation allows for 4 channels. With the expected increase in activity due to the rising solar cycle, and the number of repeaters in operation, there is already mutual interference which is expected to worsen. This paper proposes an increase in the number of 29MHz FM repeater channels from 4 to 8 to reduce mutual interference between repeaters.

This paper proposes a review of the 29.1-29.7MHz band plan to add 4 further duplex channels for repeaters.

Proposal

We propose a realignment of the existing 29MHz band plan by extending the 6000Hz bandwidth segment down by 100kHz for the FM simplex channels, as shown in Table 1. This allows an additional 4 FM repeater channels to be placed adjacent to the existing FM repeater channels.

Recommendation:

That IARU Region 1 modifies the 10 metre band plan in the segment 29.1 to 29.7MHz to allow 8 FM repeater channels:

Table 1:

Current IARU Region 1 band plan

28000 - 28070	200	CW	QRS Centre of Activity 28055 kHz QRP Centre of Activity 28060 kHz
28070 - 28120	500	Narrow band modes	Digimode
28120 - 28150	500	Narrow band modes	Digimode, automatically controlled data stations (unattended)
28150 - 28190	500	Narrow band modes	
28190 - 28199		International Beacon Project	Regional time shared beacons, exclusively
28199 - 28201		International Beacon Project	Worldwide time shared beacons, exclusively
28201 - 28225		International Beacon Project	Continuous duty beacons, exclusively
28225 - 28300	2700	All modes	Beacons
28300 - 28320	2700	All modes	Digimode, automatically controlled data stations (unattended)
28320 - 29200	2700	All modes	SSB QRP Centre of Activity 28360 kHz Image Centre of Activity 28680 kHz
29200 - 29300	6000	All modes	Digimode, automatically controlled data stations (unattended)
29300 - 29510	6000	Satellite-Downlink	
29510 - 29520		Guard Channel	
29520 - 29550	6000	All modes	FM simplex - 10 kHz channels
29560 - 29590	6000	All modes	FM-Repeater input (RH1-RH4)
29600	6000	All modes	FM Calling channel
29610 - 29650	6000	All modes	FM simplex - 10 kHz channels
29660 - 29700	6000	All modes	FM-Repeater output (RH1-RH4)

IARU Region 1 band plan UBA proposal

28000 - 28070	200	CW	QRS Centre of Activity 28055 kHz QRP Centre of Activity 28060 kHz
28070 - 28120	500	Narrow band modes	Digimode
28120 - 28150	500	Narrow band modes	Digimode, automatically controlled data stations (unattended)
28150 - 28190	500	Narrow band modes	
28190 - 28199		International Beacon Project	Regional time shared beacons, exclusively
28199 - 28201		International Beacon Project	Worldwide time shared beacons, exclusively
28201 - 28225		International Beacon Project	Continuous duty beacons, exclusively
28225 - 28300	2700	All modes	Beacons
28300 - 28320	2700	All modes	Digimode, automatically controlled data stations (unattended)
28320 - 29100	2700	All modes	SSB QRP Centre of Activity 28360 kHz Image Centre of Activity 28680 kHz
29100 - 29200	6000	All modes	FM Simplex - 10 kHz spacing
29200 - 29300	6000	All modes	Digimode, automatically controlled data stations (unattended)
29300 - 29510	6000	Satellite-Downlink	
29510 - 29520		Guard Channel	
29520 - 29550	6000	All modes	FM-Repeater input (RH1-RH4) - NEW - renumbered
29560 - 29590	6000	All modes	FM-Repeater input (RH5 -RH8) - OLD - renumbered
29600	6000	All modes	FM Calling channel
29610	6000	All modes	FM Simplex-repeater (parrot) Input and Output
29620 - 29650	6000	All modes	FM-Repeater output (RH1-RH4) - NEW - renumbered
29660 - 29700	6000	All modes	FM-Repeater output (RH5-RH8) - OLD - renumbered