

IARU

The Need for a Secondary Amateur Allocation at 5 MHz

Tim Ellam President, IARU

Ole Garpestad Vice-President, IARU

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The IARU

- Founded in Paris 1925
- International NGO headquartered in Newington, Connecticut, USA
- Represents the interests of national member societies at the ITU and with RTOs
- Sector member of ITU-R and ITU-D
- Recognized by ECOSOC
- Three Regional bodies for ITU Regions 1, 2 and 3
- Represents the interests of two way amateur radio communication
- Three international officers:
 - Tim Ellam (CAN)
 - Ole Garpestad (NOR)
 - Rod Stafford (USA)
- Represented at ITU and RTOs by the officers and other volunteers

to consider a possible new allocation to the amateur service on a secondary basis within the band 5 250 – 5 450 kHz

Resolution 649 [COM6/12] (WRC-12)

Invites WRC-15 to consider

 the possibility of making an allocation of an *appropriate amount* of spectrum, not necessarily contiguous, to the amateur service on a secondary basis within the band 5 250-5 450 kHz,

Based on

- study of *spectrum requirements* for a secondary allocation to the amateur service within the band 5 250-5 450 kHz;
- And *sharing studies* on the impact to other services currently allocated in the band and in the adjacent bands;

Why Agenda Item 1.4 and 5 MHz

Considering:

- allocations to the amateur service in the HF bands allows radio amateurs to play an important role in delivery of communications in support of relief operations
- radio communication in the HF bands is dependent on propagation factors
- the need for an operating frequency close to the maximum usable frequency (MUF) for varying distances and time of day
- current amateur radio allocations exist at 3 500 kHz and 7 000 kHz

An allocation at 5 MHz will bridge the propagation gap between the 3 500 kHz and the 7 000 kHz amateur radio bands and enable the amateur service to maintain stable communication over various distances for the whole 24 hours, especially for use when providing communications in disaster situations and during relief operations.







A number of administrations have allowed various use of frequencies in this band under RR 4.4 in order to

- allow for propagation studies
- allow for communication during emergencies and natural disasters
- verify sharing/show lack of interference with incumbent services



Current amateur use near 5 MHz

Worldwide 5 MHz Amateur Allocations from 5250 - 5450 kHz 5250 5260 5270 5280 5310 5320 5330 5340 5350 5360 5370 5380 5390 5410 5420 5430 5440 5450 Country 5290 5300 5400 5355.0 Australia 5371.5 5403.5 Bahrain Bangladesh 5250 5310 5330.5 5346.5 5366.5 5371.5 5403.5 Cayman Islands 5260 Croatia 5410 5260 Czech Republic 5250 5450 Denmark & Faroes 5278.5 5288.5 Dominican Republic 5258.5 5366.5 5371.5 5398.5 5403.5 5288.6 5298.6 5330.6 5346.6 5366.6 5371.6 5398.6 Finland 5398.5 Greece Greenland 5258.5 5278.5 5288.5 5366.5 5371.5 5398.5 5403.5 Grenada 5250 5450 5260 5410 Iceland New Zealand Norway 5260 5410 Portugal 5288.5 5371.5 5403.5 5278.5 5288.5 5398.5 5403.5 Republic of Ireland 5258.5 Slovakia 5410 Somalia 5060 5450 5366.5 5371.5 5403.5 St. Lucia 5330.5 5346.5 Trinidad & Tobago 5250 5450 5258.5 5278.5 5288.5 5366.5 5371.5 5398.5 5403.5 United Kingdom 5330.5 5346.5 5357.0 5366.5 5371.5 5403.5 US & Dependencies 5167.5 COLOUR CODE Emergency Use only : Aus - WICEN, Non-Amateur Calls, Commercial Equipt.; NZ - Special AREC Calls ; US - Alaska Only - General Usage in Emergency Normal Usage Light GREEN Print - Out of Chart Frequency End of Current Phase 31/12/2011

Replacement Frequency when New FCC R & O Becomes Operational

Extract courtesy of G4MWO / The 5 Mhz Newsletter

Listen Only

Greece - RAAG HQ Station Only



Al 1.1 additional spectrum allocation to the mobile service and additional frequency bands for International Mobile Telecommunications (IMT) to facilitate development of terrestrial mobile broadband applications

Al 1.10 possible additional spectrum allocations for mobile-satellite service within 22 – 26 GHz.

RR:

24-24.05	AMATEUR AMATEUR-SATELLITE 5.150
24.05-24.25	RADIOLOCATION Amateur Earth exploration-satellite (active) 5.150

Other Als of interest to the amateurs

AI 1.18 primary allocation to the radiolocation service for automotive applications in the 77,5 – 78 GHz band.

	76-77.5	RADIO ASTRONOMY
		RADIOLOCATION
		Amateur
		Amateur-satellite
		Space research (space-to-Earth)
		5.149
ĺ	77.5-78	AMATEUR
		AMATEUR-SATELLITE
		Radio astronomy
		Space research (space-to-Farth)
		5 149
	78-79	RADIOLOCATION
		Amateur
		Amateur-satellite
		Radio astronomy
		Space research (space-to-Earth)
		= 140 = 560
	70.04	
	79-81	
		Ameteur
		Amateur-satellite
		Space research (space-to-Earth)
		5.149

RR:



- AI 1.6.1: possible additional primary allocations to the fixed-satellite service of 250 MHz in the range between 10 GHz and 17 GHz in Region 1.
- AI 1.12 a 600 MHz extension of the current worldwide allocation to Earth exploration-satellite service within 8 700-9 300 and/or 9 900 10 500 MHz.

RR:

Region 2	Region 3			
10-10.45	10-10.45			
RADIOLOCATION	FIXED MOBILE			
Amateur	RADIOLOCATION			
	Amateur			
5.479 5.480	5.479			
10.45-10.5 RADIOLOCATION				
Amateur				
Amateur-satellite				
5.481				
	Region 2 10-10.45 RADIOLOCATION Amateur 5.479 5.480 ATION			