

NOTE: This is a proposed addition to the NTIA proposal addressing Appendix 18 in WAC 070.

Proposed Changes to Article 5

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations

1.0 Proposed changes to support the Long Range (Satellite) Detection of AIS

Taking into account the studies performed within ITU-R, especially the Report ITU-R M.2169 and the Recommendation ITU-R M. 1371-4, it is proposed to identify the channels 75 and 76 of the Appendix 18 in order to improve the satellite detection of AIS Message 27. To do so a primary allocation to the mobile satellite service (Earth-to-space) is proposed via a footnote in regards to the frequencies of channels 75 and 76 in Article 5.

Reasons:

- Provides spectrum for the implementation of the latest version of Recommendation ITU-R M.1371-4 for improved satellite detection.
- Satellite detection reliability increases and allows for greater probability of vessel tracking.
- Uses frequencies already allocated to the Maritime mobile service

MOD

148-223 MHz

Allocation to services		
Region 1	Region 2	Region 3
156.7625-156.8375	MARITIME MOBILE (distress and calling) 5.111 5.226 <u>5.MMM</u>	

ADD

5.MMM

Additional allocation: the bands 156.7625-156.7875 MHz and 156.8125-156.8375 MHz are also allocated to the mobile-satellite service (Earth-to-space) on a primary basis for the reception of automatic identification system (AIS) emissions, broadcasting long range AIS message (Message 27, see the most recent version of Recommendation ITU-R M.1371), from stations operating in the maritime-mobile service (see Appendix 18). (WRC-12)

2.0 Proposed changes to support the regulatory status of AIS 1 and AIS 2

A primary allocation in the maritime mobile service and a secondary allocation for aeronautical mobile service in the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz are proposed. A secondary allocation to the mobile-satellite service (Earth-to-space) in the Table of Frequency Allocations (Article 5) is also proposed. Consequentially, Footnote **No. 5.227A** will be suppressed.

Reasons:

- This will provide additional protection for AIS frequencies which are used for search and rescue, safety of navigation, ship movement and tracking of vessels, as well as use by search and rescue aircraft authorized by Appendix 18 of the Radio Regulations and the latest version of Recommendation ITU-R M.1371-4.

MOD

148-223 MHz

Allocation to services		
Region 1	Region 2	Region 3
156.8375-161.9625	156.8375-161.9625	
FIXED	FIXED	
MOBILE except aeronautical mobile	MOBILE	
5.226, 5.229	5.226, 5.230, 5.231, 5.232	
161.9625-161.9875	MARITIME MOBILE	
	Mobile-satellite (Earth-to-space)	
	Aeronautical mobile (OR)	
	ADD 5.22X	
161.9875-162.0125	161.9875-162.0125	
FIXED	FIXED	
MOBILE except aeronautical mobile	MOBILE	
5.226, 5.229	5.226,	
162.0125-162.0375	MARITIME MOBILE	
	Mobile-satellite (Earth-to-space)	
	Aeronautical mobile (OR), 5.229 ADD 5.22X	
162.0375-174	162.0375-174	
FIXED	FIXED	
MOBILE except aeronautical mobile	MOBILE	
5.226 5.229	5.226, 5.230 5.231 5.232	

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Editorial Note: In the Table above, frequency allocations for the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz are shown as they would appear if the proposed modifications were accepted.

ADD

5.22X The use of the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the mobile satellite service (Earth-to-space) and the aeronautical mobile (OR) service is limited to automatic identification system (AIS) emissions operating in accordance with Appendix 18.
SUP 5.227A