|  |  |
| --- | --- |
| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
|  |  |
| PLENARY MEETING | **Addendum 3 to Document 66(Add.16)-E** |
|  | **15 October 2015** |
|  | **Original: English** |
|  | |
| Cuba | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.16 | |

1.16 to consider regulatory provisions and spectrum allocations to enable possible new Automatic Identification System (AIS) technology applications and possible new applications to improve maritime radiocommunication in accordance with Resolution **360** **(WRC‑12)**;

**Issue C:** New applications for the maritime radiocommunication – satellite component

Introduction

Appendix 18 to the Radio Regulations sets out the use of channels AIS 1 and AIS 2 on the frequencies 161.975 MHz and 162.025 MHz, respectively.

These channels are among the frequencies used for emergency and safety communications within the Global Maritime Distress and Safety System and in that respect they are covered by Appendix 15 to the Radio Regulations. In fact, carrying an SIA on board vessels is compulsory for navigation safety under Chapter V of the International Convention for the Safety of Life at Sea (SOLAS).

The Radio Regulations state that channels AIS 1 and AIS 2 may be used by the mobile-satellite service (Earth-to-space) for the reception of AIS transmissions from ships, and other facilities are needed via satellite to allow for necessary information – components of the VDES carrying “non-critical” information – to be transmitted without reducing the effectiveness of AIS signals.

It has been considered that these VHF applications could be introduced under the mobile-satellite service in the frequency bands allocated to this service for the Earth-to-space and space-to-Earth directions.

In analysing this issue, the Administration of Cuba has considered the various options in the methods proposed in the CPM report and has reached the following conclusions:

1 Under the proposal submitted for Issue A to identify channels 2027 and 2028 for ASM, it is proposed to allocate the frequency bands 161.9375-161.9625 MHz (channel 2027) and 161.9875-162.0125 MHz (channel 2028) to the maritime mobile-satellite service (Earth-to-space) on a secondary basis;

2 With regard to the other possible allocations to the maritime mobile-satellite service, it is proposed to apply Method C2 from the CPM Report, which consists of using the VHF bands already allocated to the MSS, as is the case for the frequency bands 148-149 MHz for the Earth-to-space link and 137-138 MHz for the space-to-Earth link, as this may provide an adequate solution to the issue.

In this analysis, the difficulties of sharing with existing earth services have been taken into account for a new allocation to the MMSS at the VHF used by the maritime mobile service, bearing in mind the high volume of use of this frequency band by the fixed and mobile services and the fact that, as a result of the broad coverage of space station receiver antenna beams, stations in the fixed and mobile services operating at distances of up to several hundred kilometres from navigable waterways may affect satellite reception.

Proposals

Based on the above, it is proposed:

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD CUB/66A16A3/1

148-223 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 156.8375-161.9375  FIXED  MOBILE except aeronautical mobile | 156.8375-161.9375  FIXED  MOBILE | |
| 5.226 | 5.226 | |
| 161.9375-161.9625  FIXED  MOBILE except aeronautical mobile  Maritime mobile-satellite (Earth-to-space) | 161.9375-161.9625  FIXED  MOBILE  Maritime mobile-satellite (Earth-to-space) | |
| 5.226 ADD 5.A116 | 5.226 ADD 5.A116 | |
| ............................................... | ....................................................................................... | |
| 161.9875-162.0125  FIXED  MOBILE except aeronautical mobile  Maritime mobile-satellite (Earth-to-space) | 161.9875-162.0125  FIXED  MOBILE  Maritime mobile-satellite (Earth-to-space) | |
| 5.226 ADD 5.A116 5.229 | 5.226 ADD 5.A116 | |

ADD CUB/66A16A3/2

5.A116 The use of the frequency bands 161.9375-161.9625 MHz and 161.9875-162.0125 MHz by the maritime mobile-satellite (Earth-to-space) service is limited to the systems which operate in accordance with Appendix **18**. (WRC-15)

**Reasons:** To make channels AIS 1 and AIS 2 available for use in the maritime mobile-satellite service.

CUB/66A16A3/3

No additional allocations to be made to the maritime mobile-satellite service in the VHF bands for transmissions by other components of the VDES that carry “non-critical” information.

**Reasons:** The existing allocations to the mobile-satellite service in the VHF bands are capable of meeting this communications demand without needing new allocations to the maritime mobile-satellite service, in some cases on a secondary basis in frequency bands with a high volume of usage by the fixed and mobile services.

SUP CUB/66A16A3/4

RESOLUTION 360 (WRC‑12)

Consideration of regulatory provisions and spectrum allocations for   
enhanced Automatic Identification System technology applications   
and for enhanced maritime radiocommunication

**Reasons:** No longer necessary.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_