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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | |  |
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|  | | **19 August 2023** | |
|  | | **Original: English** | |
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| Asia-Pacific Telecommunity Common Proposals | | | |
| Proposals for the work of the conference | | | |
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| Agenda item 1.14 | | | |

1.14 to review and consider possible adjustments of the existing frequency allocations or possible new primary frequency allocations to the Earth exploration-satellite service (passive) in the frequency range 231.5-252 GHz, to ensure alignment with more up-to-date remote-sensing observation requirements, in accordance with Resolution **662 (WRC‑19)**;

**Introduction**

This document presents the APT Common proposal under WRC-23 agenda item 1.14. APT Members are of the view that there are needs to review and consider possible adjustment of the existing or possible new primary frequency allocations to the Earth exploration-satellite service (EESS) (passive) in the frequency range 231.5-252 GHz, to ensure alignment with more up-to-date remote sensing observation requirements, ensure that the allocations to the EESS (passive) within the considered frequency range correspond to the observation requirements for satellite passive microwave sensing without unduly constraining the operation of other primary services currently allocated in this frequency range, taking into account the possible effect on the other primary services in the considered frequency range. In order to review and consider possible adjustments of the existing or possible new primary frequency allocations to EESS (passive) in the frequency range *231.5-252 GHz,* APT members support method B of the CPM report to WRC-2023, because there would be neither an impact on the current allocation to the EESS (passive) and space research service (SRS) (passive) in the frequency band 235-238 GHz, nor any limitations required for the FS/MS to protect the EESS (passive) and SRS (passive). To ensure that there will be no potential future impact to the FS/MS in the frequency band 235-238 GHz, the existing allocation to the EESS (passive) in this frequency band to be limited for use by limb sounding passive sensors only.

**Proposal**

APT Members support Method B (option-1) of the CPM report to WRC-23 to address this agenda item. APT members support the addition of new primary allocations to the EESS (passive) in the frequency bands 239.2-242.2 GHz and 244.2-247.2 GHz, swap the current FS and MS allocations in the frequency band 239.2-241 GHz to the frequency band 235-238 GHz and limitation of the EESS (passive) allocation in the 235-238 GHz to limb-sounding operations.

ARTICLE 5

Frequency allocations

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

MOD ACP/xxA14/1#1863

200-248 GHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 232-235FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  Radiolocation | | |
| 235-238 EARTH EXPLORATION-SATELLITE (passive) ADD 5.B114  FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  SPACE RESEARCH (passive)  5.563A 5.563B | | |
| 238-239.2 FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  RADIOLOCATION  RADIONAVIGATION  RADIONAVIGATION-SATELLITE | | |
| 239.2-240 EARTH EXPLORATION-SATELLITE (passive)  FIXED-SATELLITE (space-to-Earth)  RADIOLOCATION  RADIONAVIGATION  RADIONAVIGATION-SATELLITE | | |
| 240-241 EARTH EXPLORATION-SATELLITE (passive)  RADIOLOCATION | | |
| 241-242.2 EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  5.149 | | |
| 242.2-244.2 RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  5.138 5.149 | | |
| 244.2-247.2 EARTH EXPLORATION-SATELLITE (passive)  RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  5.138 5.149 | | |
| 247.2-248 RADIO ASTRONOMY  RADIOLOCATION  Amateur  Amateur-satellite  5.149 | | |

**Reasons:** Provides additional spectrum for EESS (passive) to ensure alignment with more up-to-date remote sensing observation requirements while at the same time not putting additional constraint on incumbent services sharing the same band.

ADD ACP/xxA14/2#1864

5.B114 The use of the frequency band 235-238 GHz by the Earth exploration-satellite service (passive) is limited to the operation of limb sounding passive sensors.     (WRC‑23)

SUP ACP/xxA14/3#1867

RESOLUTION 662 (WRC‑19)

Review of frequency allocations for the Earth exploration-satellite service (passive) in the frequency range 231.5-252 GHz and consideration of possible adjustment according to observation requirements of passive microwave sensors