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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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| PLENARY MEETING | | **Addendum 14 to Document 65-E** | |
|  | | **4 October 2023** | |
|  | | **Original: English** | |
|  | | | |
| European Common Proposals | | | |
| Proposals for the work of the conference | | | |
|  | | | |
| 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

To cover relevant requirements of passive microwave sensor measurements within the frequency range 231.5-252 GHz, a new primary allocation to the EESS (passive) is proposed in the frequency bands 239.2-242.2 GHz and 244.2-247.2 GHz.

In order to avoid undue constraints to the primary services to which the frequency bands 239.2-242.2 GHz and 244.2-247.2 GHz are allocated, a shift of the existing allocations to the fixed service (FS) and mobile service (MS) is proposed from the frequency band 239.2-241 GHz to the frequency band 235-238 GHz.

In order to ensure that there will be no potential future impact to FS and MS in the frequency band 235-238 GHz, a new footnote is proposed limiting the existing allocation to EESS (passive) in this frequency band for use by limb sounding passive sensors only.

Proposals

ARTICLE 5

Frequency allocations

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

MOD EUR/65A14/1#1860

200-248 GHz

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| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 235-238 EARTH EXPLORATION-SATELLITE (passive) ADD 5.A114  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:** To cover relevant requirements of passive microwave sensor measurements within the frequency range 231.5-252 GHz, a new primary allocation to the EESS (passive) is required in the frequency bands 239.2-242.2 GHz and 244.2-247.2 GHz. A shift of the existing allocations to the fixed service and mobile service from the frequency band 239.2-241 GHz to the frequency band 235-238 GHz would avoid undue constraints to the primary services to which the frequency bands 239.2-242.2 GHz and 244.2-247.2 GHz are allocated. As a positive consequence, it would also provide additional and contiguous spectrum for the fixed service and mobile service.

ADD EUR/65A14/2#1861

5.A114The allocation to the Earth exploration-satellite service (passive) in the frequency band 235-238 GHz is limited to the operation of limb sounding passive sensors.     (WRC‑23)

**Reasons:** In order to ensure that there will be no potential future impact to the fixed service and mobile service in the frequency band 235-238 GHz, it is proposed to limit the existing allocation to EESS (passive) in this frequency band for use by limb sounding passive sensors only.

SUP EUR/65A14/3#1862

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

**Reasons:** With the proposed adjustments to the allocations in the frequency range 231.5-252 GHz, the observation requirements of passive microwave sensors could be satisfied and Resolution **662 (WRC-19)** could consequently be suppressed.

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