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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| PLENARY MEETING | **Addendum 2 to Document 38-E** |
|  | **6 October 2015** |
|  | **Original: English** |
|  | |
| Canada/United States of America | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.1 | |

1.1 to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution **233 (WRC‑12)**;

NOC 1 518-1 535 MHz

Background

The frequency band 1 518-1 525 MHz is used by different services in different Region 2 Administrations.

For instance, some Region 2 Administrations continue to use the 1 518-1 525 MHz frequency band for aeronautical mobile telemetry (i.e. “AMT,” or “flight test”). Together with 1 435-1 518 MHz, the band 1 518-1 525 MHz is essential for aerospace research and development, and for the certification of aircraft prior to commercial use. Real-time use of the band free of harmful interference is important for the protection of test aircraft, payloads, flight crews, and persons and property located beneath flight test airspace. Thus, the continued use of the entire 1 435‑1 525 MHz frequency range on such basis is essential for the aerospace manufacturing industries, their many suppliers in Region 2, and Administrations benefiting from these test ranges and data results.

Important to this operation is Radio Regulations (RR) No. 5.343, which prescribes “[i]n Region 2, the use of the band 1 435-1 535 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service.”

Studies conducted by Joint Task Group (JTG) 4-5-6-7 for the 1 429-1 535 MHz frequency range demonstrated that spectrum sharing between AMT and IMT systems is impractical. For example, the studies concluded that co-frequency operation of AMT and IMT systems requires exclusion zones in excess of 100 km with respect to interference from IMT to AMT ground stations[[1]](#footnote-1). Moreover, ITU‑R studies did not consider modifications to AMT's regulatory status (RR No. 5.343). Modifying RR No. 5.343 could therefore disrupt existing coordination arrangements in Region 2 countries and impact commercial flight safety testing and training.

Other Region 2 Administrations currently use all or portions of the 1 518-1 559 MHz frequency range for the mobile-satellite service (space-to-Earth). This service is widely used to provide local and rural coverage. Some of the applications in this range provide national security and government communications.

Proposals

ARTICLE 5

Frequency allocations

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

NOC CAN/USA/38A2/1

1 300-1 525 MHz

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Allocation to services | | | | |
| Region 1 | Region 2 | | Region 3 | |
| 1 518-1 525  FIXED  MOBILE except aeronautical mobile  MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A  5.341 5.342 | | 1 518-1 525  FIXED  MOBILE 5.343  MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A  5.341 5.344 | | 1 518-1 525  FIXED  MOBILE  MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A  5.341 |

**Reasons:** No change due to incompatibility between IMT and other services/applications.

NOC CAN/USA/38A2/2

1 525-1 610 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 1 525-1 530  SPACE OPERATION (space-to-Earth)  FIXED  MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A  Earth exploration-satellite  Mobile except aeronautical  mobile 5.349 | 1 525-1 530  SPACE OPERATION (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A  Earth exploration-satellite  Fixed  Mobile 5.343 | 1 525-1 530  SPACE OPERATION (space-to-Earth)  FIXED  MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A  Earth exploration-satellite  Mobile 5.349 |
| 5.341 5.342 5.350 5.351  5.352A 5.354 | 5.341 5.351 5.354 | 5.341 5.351 5.352A 5.354 |
| 1 530-1 535  SPACE OPERATION (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A  Earth exploration-satellite  Fixed  Mobile except aeronautical mobile | 1 530-1 535  SPACE OPERATION (space-to-Earth)  MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A  Earth exploration-satellite  Fixed  Mobile 5.343 | |
| 5.341 5.342 5.351 5.354 | 5.341 5.351 5.354 | |

**Reasons:** No change due to incompatibility between IMT and other services/applications.

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1. See “*Sharing studies between potential International Mobile Telecommunication systems and aeronautical mobile telemetry systems in the frequency band 1 429-1 535 MHz*”, Report ITU‑R M.2324-0 (2014), Annex 4. [↑](#footnote-ref-1)