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| **World Radiocommunication Conference (WRC-15) Geneva, 2–27 November 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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|  | **Addendum 2 to Document 62(Add.9)-E** |
|  | **16 October 2015** |
|  | **Original: Chinese** |
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| China (People’s Republic of) | |
| Proposals for the work of the conference | |
|  | |
| Agenda item 1.9.2 | |

1.9 to consider, in accordance with Resolution **758 (WRC‑12)**:

1.9.2 the possibility of allocating the bands 7 375-7 750 MHz and 8 025-8 400 MHz to the maritime-mobile satellite service and additional regulatory measures, depending on the results of appropriate studies;

# 1 Introduction

Resolution 758 (WRC-12) resolves to invite ITU-R study groups “to conduct technical and regulatory studies on the possibility of allocating the bands 7 375-7 750 MHz (space-to-Earth) and 8 025-8 400 MHz (Earth-to-space), or parts thereof, to the maritime-mobile satellite service, while ensuring compatibility with existing services”.

Currently, the band 7 375-7 750 MHz is allocated on a primary basis to the fixed (FS), mobile (except aeronautical mobile, MS) and fixed-satellite (FSS s-E) services; and the band 7 450-7 550 MHz is also allocated on a primary basis to the meteorological-satellite service (s-E). Similarly, the 8 025-8 400 MHz (s-E) band is currently allocated on a primary basis to the Earth exploration-satellite (EESS s-E), fixed (FS), mobile (MS) and fixed-satellite (FSS E-s) services; and the band 8 175-8 215 MHz is also allocated for the meteorological-satellite service (E-s).

As the responsible study group, WP 4C has carried out intensive studies under agenda item 1.9.2 over the past three years. Preliminary draft new report ITU-R M.[MMSS 7/8 GHz Sharing] and the CPM text for this agenda item have been completed.

Three methods are developed in the CPM Report to satisfy this agenda item:

• Method A – no new allocation to MMSS, no change to the Radio Regulations.

• Method B – a new allocation to MMSS in both the 7 375-7 750 MHz and 8 025-8 400 MHz bands.

Although two options were provided in Method B to resolve the potential interference from MMSS earth stations to existing services, great controversy still existed in the discussion. Considering the heavy distribution of stations in the EESS, FS and SRS in areas near the ocean in the 8 025-8 400 MHz band, China believes that both Options A and B in Method B are difficult to implement.

• Method C – a new allocation to MMSS in the 7 375-7 750 MHz band for downlink only, no change in the 8 025-8 400 MHz band.

# 2 Proposal

In view of the study results currently available, China does not support any new allocations to the MMSS in the band 8 025-8 400 MHz.

Considering that there are a large number of terrestrial stations intensively deployed in coastal areas around the world, the MMSS receiving earth stations are likely to be affected by interference from all these terrestrial stations. Furthermore, no studies of interference from incumbent services into MMSS have been performed and how to keep the earth stations from harmful interference has not been determined. Therefore, China does not support any new allocations to MMSS in the band 7 375-7 750 MHz either.

In view of the above, China is in favour of Method A (no change). A consequential suppression of Resolution 758(WRC‑12) is also proposed.

ARTICLE 5

Frequency allocations

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

NOC CHN/62A9A2/1

7 250-8 500 MHz

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| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 7 250-7 300 FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  5.461 | | |
| 7 300-7 450 FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile  5.461 | | |
| 7 450-7 550 FIXED  FIXED-SATELLITE (space-to-Earth)  METEOROLOGICAL-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile  5.461A | | |
| 7 550-7 750 FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile | | |
| 7 750-7 900 FIXED  METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B  MOBILE except aeronautical mobile | | |
| 7 900-8 025 FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE  5.461 | | |
| 8 025-8 175 EARTH EXPLORATION-SATELLITE (space-to-Earth)  FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE 5.463  5.462A | | |
| 8 175-8 215 EARTH EXPLORATION-SATELLITE (space-to-Earth)  FIXED  FIXED-SATELLITE (Earth-to-space)  METEOROLOGICAL-SATELLITE (Earth-to-space)  MOBILE 5.463  5.462A | | |
| 8 215-8 400 EARTH EXPLORATION-SATELLITE (space-to-Earth)  FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE 5.463  5.462A | | |
| 8 400-8 500 FIXED  MOBILE except aeronautical mobile  SPACE RESEARCH (space-to-Earth) 5.465 5.466 | | |

**Reasons:** In the frequency band 7 375-7 750 MHz, applications of MMSS earth stations are likely to be affected by interference from terrestrial stations deployed in coastal areas around the world, and how to protect the receiving MMSS earth stations from harmful interference is still unresolved.

In the band 8 025-8 400 MHz, no new allocation to MMSS is proposed in order to protect existing terrestrial and EESS stations in the same band and SRS stations in adjacent bands from harmful interference.

SUP CHN/62A9A2/2

RESOLUTION 758 (WRC‑12)

Allocation to the fixed-satellite service and the maritime-  
mobile satellite service in the 7/8 GHz range

**Reasons:** Studies on the possibility of an allocation to MMSS in the 7/8 GHz frequency range called for by this Resolution have been completed.

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