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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 4(Add.2)(Rev.1)-E** |
| **3 November 2015** |
| **Original: English** |
| Director, Radiocommunication Bureau |
| REPORT OF THE DIRECTOR ON THE ACTIVITIES OF THE RADIOCOMMUNICATION SECTOR |
| PART 2eXPERIENCE IN THE APPLICATION OF radio regulatoRY PROCEDURES AND OTHER RELATED MATTERS |
| Additional information relevant to Part 2 of the Director’s Report |

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# 1 Clarification of the definition of space research (deep-space) in the Radio Regulations

Currently, the frequency bands 7 145-7 235 MHz and 8 400-8 500 MHz are allocated to space research service (SRS) Earth-to-space and space-to-Earth, respectively. The lower halves of these frequency bands, i.e. 7 145-7 190 MHz and 8 400-8 450 MHz, are restricted to SRS (deep space) use only, as specified in RR Nos. **5.460** and **5.465**.

Under RR Nos. **5.460** and **5.465**, SRS (deep-space) missions have for many years used the 7 145-7 190 MHz and 8 400-8 450 MHz bands for all phases of their missions, including critical periods that occur in the region of space between the Earth and deep space (i.e., near Earth region) during launch and early orbit, Earth fly-bys, and returns to Earth.

During discussions of WRC-12 agenda item 1.25 and WRC-15 agenda item 1.9.1, a possible more stringent interpretation of these footnotes was discussed. According to this interpretation, *deep space* as used in these footnotes would refer solely to a region of space rather than also to a particular class of SRS missions.

Having recognized that there may be ambiguities in the interpretation of RR Nos. **5.460** and **5.465**, Working Party 7B suggested that the definition of the space research service in RR No. **1.55** could be clarified to indicate that SRS spacecraft operate in the region near the Earth or in the deep space region and that a spacecraft intended to operate in deep space has to operate also in the region near the Earth during launch and early orbit phases, Earth flybys, or while returning to Earth. In addition, RR Nos. **5.460** and **5.465** could be modified so that they specifically refer to spacecraft intended to operate in deep space.

A method developed under WRC-15 agenda item 1.11 (Document CMR15/3, CPM Report, par. 2/1.11/5.1 Method A) proposes to separate the 7 145-7 235 MHz SRS allocation in the Table of Frequency Allocations into 7 145-7 190 MHz and 7 190-7 235 MHz bands, and also to modify RR No. **5.460**. If WRC-15 decides to implement this method under agenda item 1.11, there will be no need to modify RR No. **5.460** any further.

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| The Conference may wish to consider further this issue and clarify the use of the space research service (deep space), as appropriate.  |

# 2 Clarification of the definition of meteorological aids service in the Radio Regulations

During WRC-12 (see 3.1 CMR12/4(ADD2) Rev1), it was noted that the *meteorological aids service* (RR No.**1.50**) does not have any corresponding definition for radio stations. For the purpose of notification of assignments to the meteorological aids service, the Bureau established two classes of station with symbols “SM” and “SA” corresponding to a meteorological aids base station and a meteorological aids mobile station. These classes of station are published regularly in the Preface to BR IFIC (terrestrial services) but they are not included in the RR.

Taking into account the fact that all other radiocommunication services have the definition for their associated radio stations, the Conference may wish to review this situation and take appropriate measures.

Working Party 7C has worked with the Working Party of the Special Committee (SC-WP) to resolve this inconsistency under WRC-15 agenda item 9.2. As suggested by SC-WP, one approach could be to include in Article**1** of the Radio Regulations two definitions for the meteorological aids stations.

 1.109*bis*   Meteorological aids land station: A station in the meteorological aids service not intended to be used while in motion.

 1.109*ter*   Meteorological aids mobile station: A station in the meteorological aids service intended to be used while in motion or during halts at unspecified points.

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| The Conference may wish to consider further this issue and include new definitions for meteorological aids service in the Radio Regulations.  |

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