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| **U.S. Radiocommunications Sector**  **Fact Sheet** | |
| **Working Party:** USWP7C | **Document No:** USWP 7C/27-022NC |
| **Reference:**  WRC-27 AI 1.17  Resolution 682 (WRC-23) | **Date:** 12 August 2024 |
| Document Title: Working document on studies under WRC-27 Agenda Item 1.17 | |
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| Purpose/Objective: To initiate the studies under WRC-27 Agenda Item 1.17 | |
| **Abstract:**  The proposed contribution seeks to start the studies under WRC-27 Agenda Item 1.17 in accordance with Resolution 682 (WRC-23) with an initial framework of the working document. | |
| **Fact Sheet Preparer:** Philip Sohn | |

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| **Radiocommunication Study Groups** |  |
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| United States of America | |
| PROPOSED INITIAL FRAMEWORK OF THE WoRKING DOCUMENT ON STUDIES UNDER WRC-27 AGENDA ITEM 1.17 | |
| Initial framework of the working document on studies under WRC-27 Agenda Item 1.17 | |

**Introduction**

WRC-27 Agenda Item 1.17 considers regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations, taking into account the results of ITU-R studies in accordance with Resolution 682 (WRC-23). The contribution seeks to start the studies with an initial framework of the working document.

**Attachment**: 1

ATTACHMENT

PROPOSED INITIAL FRAMEWORK OF THE WORKING DOCUMENT ON STUDIES UNDER WRC-27 AGENDA ITEM 1.17

Initial framework of the working document on studies under WRC-27 Agenda Item 1.17

# 1 Introduction

WRC-27 Agenda Item 1.17 considers regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations, taking into account the results of ITU-R studies in accordance with Resolution 682 (WRC-23). This contribution seeks to start the studies with an initial framework of the working document.

# 2 Spectrum needs and appropriate protection criteria

This section is proposed to contain studies on spectrum needs and appropriate protection criteria for receive-only space weather sensors, as well as system characteristics, as appropriate, taking into account *noting a)* of Resolution 682 (WRC-23).

# 3 Propagation models and technical and operation characteristics

This section provides the propagation models and the technical and operational characteristics provided by the contributing groups to WRC-27 agenda item 1.17 for use in sharing and compatibility studies.

[US Note: the table below needs to be reviewed and updated based on inputs from contributing groups]

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| **Source** | **Document** | **Information Services** |
| WP 3L & WP 3M | 7C/88 | Propagation Models |
| WP 4C | 7C/47 | Mobile Satellite Service |
| WP 5B | 7C/64 | Aeronautical Radionavigation Service  Radionavigation Service |
| WP 6A | 7C/32 | Terrestrial Broadcasting Service |
| TBD | TBD | TBD |

# 4 Sharing and compatibility

This section is proposed to contain sharing and compatibility studies pertaining to potential new primary allocations to MetAids (space weather) in the following frequency bands for receive-only sensors, taking into account *further resolves* 2 of Resolution 682 (WRC-23): 1) 27.5-28.0 MHz; 2) 29.7-30.2 MHz; 3) 32.2-32.6 MHz; 4) 37.5-38.325 MHz; 5) 73.0-74.6 MHz; and 6) 608-614 MHz.

# 5 Notification to be included in the MIFR

This section is proposed to contain studies on possible regulatory provisions of the Radio Regulations to accommodate the possibility for an administration that desires to notify a receive-only space weather sensor station to be included in the Master International Frequency Register.