| **US Radiocommunication Sector** **FACT SHEET** |
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| **Study Group:** USWP 5B | **Document No:** USWP5B26-23 |
| **Reference:** [4C/116](https://www.itu.int/md/R19-WP4C-C-0116/en) | **Date:** 30 March 2021 |
| **Document Title:** Draft Reply Liaison to Working Party 4C concerning WRC-23 Agenda Item 1.18 |
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| **Purpose/Objective**: To reply to WP 4C with the antenna patterns and percentage of time value in propagation model relating to the required sharing and compatibility studies to be carried out under WRC-23 agenda item 1.18.  |
| **Abstract**: At the November 2020 meeting, WP 5B sent a reply liaison statement to WP 4C which informs regarding an update on Recommendation ITU-R M.1465. This contribution proposes a further reply from WP 5B to WP 4C on AI 1.18. |
| **Fact Sheet Preparer:** Dominic Nguyen |

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| **Radiocommunication Study Groups** |  |
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|  | **SPECTRUM ASPECTS** |

**United States of America**

REPLY LIAISON STATEMENT TO WORKING PARTY 4C FOR AGENDA ITEM 1.18

**1 Introduction**

The United States of America proposes a further reply liaison statement from WP 5B to WP 4C on AI 1.18.

Attachment revisions are presented for consideration.

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| Working Party 5B |
| REPLY LIAISON STATEMENT to working party 4C |
| WRC-23 agenda item 1.18 Characteristics of radiodetermination systems operating in the frequency bands 3 300-3 400 MHz |

Working Party (WP) 5B thanks WP 4C for the liaison statement ([5B/213](https://www.itu.int/md/R19-WP5B-C-0213/en)). In WP 5B’s previous liaison statement ([4C/116](https://www.itu.int/md/R19-WP4C-C-0116/en)), WP 5B provided updates on Recommendation ITU‑R M.1465, “Characteristics of and protection criteria for radars operating in the radiodetermination service in the frequency range 3 100-3 700 MHz.” (See attachment 5B/XX Annex YY)

WP 5B would like to provide the following guidance on future studies relative to sharing and compatibility between Mobile Satellite Service systems and radiolocation systems.

1. Recommendation ITU-R M.1851, “Mathematical models for radiodetermination radar systems antenna patterns for use in interference analyses” should be used as an antenna pattern reference for land-based and ship borne radars, as well as airborne radars.

WP 5B looks forward to continued collaboration with WP 4C on the progress of WRC-23 agenda item 1.18.

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| **Status:** For information and action as appropriate |
| **Contact:**  | **E-mail:**   |

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