

WG-S RECOMMENDATION #1
Recommendation 14S-1 for ICG Decision

Prepared by: Working Group S
Date of Submission: 12 December 2019
Issue Title: GNSS Spectrum Protection Booklet

Background/Brief Description of the Issue:

Spectrum Protection and Interference Detection and Mitigation (IDM) have been included in the workplan of the ICG and the Working Group S since its inception. In an effort to expand beyond the reaches of the ICG, WG-S raised this topic to the broader UN at the Committee on the Peaceful Uses of Outer Space (COPUOS) Science and Technology Subcommittee at its annual meeting in 2015. The interest in this topic led to a recommendation for Working Group S to hold a seminar on the importance of spectrum protection and IDM, in conjunction with the UN Workshop on the Applications of GNSS, hosted by the UN at the Vienna International Centre in December 2015. The success of the first workshop led to subsequent regional workshops held in Nepal, Argentina and Fiji, between 2016 and 2019.

Discussion/Analyses:

A team of spectrum experts from WG-S put together material for the regional workshops covering a range of topics, from an introduction to what spectrum protection is, to the threat of the proliferation of GNSS jammers around the world. In order make this information more readily available there is great interest in collating this information into written format.

Recommendation:

The ICG recommends that the WG-S Compatibility and Spectrum subgroup, in coordination with the ICG Secretariat, produce a draft booklet on GNSS/RNSS Spectrum Protection based on the briefing material used for the ongoing spectrum seminars:

- *Fundamentals of GNSS*
- *Interference and Spectrum Management*
- *Interference Threats*
- *Methods of Interference Detection and Mitigation*
- *Current Interference Challenges*

The ICG should consider formal endorsement of the draft booklet at a future meeting