



# International Amateur Radio Union

## Summary Meeting Report

ITU-R WP5A #26: 15 - 26 November 2021

### Relating to the 23cm Band RNSS Coexistence Aspects and WRC23 AI 9.1b

The IARU was represented by Ole Garpstad (LA2RR – ITU Lead) and Barry Lewis (G4SJH – WRC23 AI9.1b Lead).

### Background

As detailed in the report from WRC23 CPM-1, ITU-R WP5A is the lead group responsible for developing the CPM report on agenda item 9.1 topic b and is working in collaboration with WP4C on the studies identified under *invites 2* of Resolution 774.

The contributions relating to this work are dealt with in working group WG5A-1 which met (virtually) for four sessions of 80mins each over the ten meeting days. WG5A-1 also deals with other aspects related to the amateur and amateur satellite services reported elsewhere.

Contributions to the meeting were provided by ITU-R SG3, France, Germany and Canada. These were presented in WG5A-1 and used as the basis for further discussion and development of the WG5A deliverables.

### Contributions to the meeting relevant to AI 9.1b

**Document 5A/359-E, Annex 10** - The draft technical report **ITU-R M.[AMATEUR.CHARACTERISTICS]** attached to the chairman's report from the previous meeting #25 formed the basis for the work to progress.

**Doc 5A/427** – Canadian contribution updating the [AMATEUR.CHARACTERISTICS] working document.

**Doc 5A/432** – Liaison from WP4C providing an update of the work in WP4C.

**Doc 5A/460** – Draft CPM text from France.

**Doc 5A/461** – Draft liaison response to WP4C from France.

**Doc 5A/462** – Proposals for the draft report including a proposal to combine the WP4C and WP5A reports from France.

**Doc 5A/470** – Proposal for a draft new ITU-R Recommendation from Germany.

### IARU objectives

The IARU had made no written contributions to this meeting but participated in all the discussions concerning the deliverables under development. The IARU co-convened an

offline discussion group set up by the WG5A-1 chair to deal with the contributions relating to the draft report.

### **Meeting Activity**

For 9.1b, the IARU engagement concentrated on:

- a) Updating the **ITU-R M.[AMATEUR.CHARACTERISTICS]** working document.
- b) Drafting elements of a liaison response to WP4C.
- c) Drafting the first draft CPM text (This text will be published in the CPM WRC preparatory report and summarises all the activity associated with dealing with AI 9.1b).

There was no substantive discussion on the German proposal for a Recommendation.

### **Summary of the meeting outputs relevant to AI 9.1b**

**Annex 10** to the chairman's report **5A/491**: PDNR **ITU-R M.[AMATEUR.CHARACTERISTICS]**. This working document forms the basis for ongoing contributions and work at the next meeting.

**Annex 6** to the chairman's report **5A/491**: Draft CPM text.

**Annex 7** to the chairman's report **5A/491**: Updated work plan for AI9.1 b.

**Annex 11** to the chairman's report **5A/491**: Working document towards a Recommendation on guidance for the amateur and amateur satellite service use of the 1240-1300 MHz band.

Liaison to WP-4C/xxx.(will update once available)

### **Comment**

Several proponents from the RNSS community were active in the WG5A-1 discussions and supported efforts by France to combine the work of both WP5A and WP4C towards a single report. This proposal caused a huge amount of "bad tempered" discussion as the division of the work between WP5A and WP4C is a sensitive topic and seemed to be clear already with the work plans in each group agreed. Arguments against this indicated the draft nature of the WP4C report (it includes a lot of as yet unadopted material) and that there is no formal requirement to develop a single ITU-R report. WP4C works on and reports on the studies and sends these to WP5A for consideration in the development of the CPM text.

However France and the RNSS proponents were insistent and the only compromise that could be reached was to include (a re-ordering) of all the material from the draft WP4C report (including all the unaccepted review Track changes). This document is attached to the WP5A chairman's report.

The liaison to WP4C included observations (See Attachment 1) from a review of the studies.

**Next WP-5A meeting**

Planned: 23rd May – 3rd June 2022

**(Next WP-4C meeting**

Planned: 4 – 10th May 2022 )

**Attachment:**

**Observations on the work of WP4C from the IARU included in the WP5A liaison response to WP4C:**

WP5A has reviewed the scenarios and parameters used in the simulations provided in 4C/283 Annex 4 and offers the following observations:

The parameters laid out in Table 3 of Section A1.7.1 provide a good representation of amateur radio station characteristics for the simulations and are consistent with the information provided by WP5A.

In addition the Earth-Moon-Earth and the Amateur Satellite Uplink scenarios are using characteristics that are consistent with the 5A material.

However the use of the Home Station 2 characteristics in a non-EME scenario does not represent a typical operating scenario (See section A1.9.2). WP5A suggests the Home Station 2 can be removed from Table 3.

In summary WP5A suggests that if the non-EME configuration for Home Station 2 is removed (section A1.9.2.1) the remaining set of studies is using a fully representative set of parameters as WP5A intended.