



International Amateur Radio Union

Summary Meeting Report

ITU-R WP4C #25: 15 – 19 February 2021

The IARU was represented by Ole Garpstad (LA2RR – ITU Lead) and Barry Lewis (G4SJH – WRC23 AI9.1b Lead) with other IARU members present inside national delegations from Australia, Brazil, Canada and the USA.

The relevant 4C 9.1b related contributions were reviewed ahead of the meeting by correspondence in the IARU Global WRC23 AI9.1b task group. The IARU did not provide any contributions to this meeting but acted as the carrier of a liaison document from WP5A.

1. WRC23 AI 9.1 topic b (RNSS and Amateur services coexistence)

Background

As detailed in the report from WRC23 CPM-1, ITU-R WP4C is a contributing group and is responsible for developing the studies identified under *invites 2* of Resolution 774 on **WRC23 AI 9.1 topic b (RNSS and Amateur services coexistence)**.

All the contributions relating to this work were quickly referred to a Sub Group 4C3 and the items relevant to AI9.1 b were subsequently referred to a drafting group led by France which progressed the work by correspondence between the sub group sessions. Sub group 4C3 met every day from 15:00 until 16:15 CET every day Monday to Thursday.

The Virtual Meeting format and the resulting limited working hours (especially for drafting activities) are making progress increasingly challenging as the working documents become more complex.

Contributions to the meeting relevant to AI 9.1b

The draft technical report **[AMATEUR_RNSS]** attached to the chairman's report from the previous meeting formed the basis for the work to progress.

Doc 4C/119 – Liaison from WP-5A containing detailed information on the amateur and amateur satellite applications and usage characteristics in the 23cm band. This was developed at the last WP-5A meeting in November 2020.

Doc 4C/140 – Contribution from France/Italy providing update proposals to the **[AMATEUR_RNSS]** working document.

Doc 4C/147 – Contribution from Germany proposing a RNSS receiver model for the studies.

Doc 4C/148 – Contribution from Germany proposing figures to refine the RNSS protection thresholds according to the amateur application and frequency offset (from the RNSS

centre frequency). The figures are derived from their measurement campaign previously reported to WP4C.

Contributions were also received addressing other deliverables that fall under the purview of WP4C relating to Recommendations containing RNSS parameters. These activities are business as usual for the WP4C although some (e.g.M.1902) are related to the 9.1b discussion.

IARU objectives

The IARU objectives for the meeting on the 9.1b topic were agreed in the IARU Global WRC23 AI 9.1b sub-group and included:

- Support full adoption of the material contained in the liaison from WP-5A into the [AMATEUR_RNSS] working document – **Achieved**
- Removal of the “non 4C contributed” information relating to a proposed study in WP-5A - **Achieved**
- Work towards ensuring balanced and “in scope” text discussing the Amateur and RNSS services in the working document - **Achieved**

Meeting Activity

For 9.1b, the IARU engagement concentrated on updating the [AMATEUR_RNSS] working document. In addition (but not solely related to 9.1b) the meeting developed updates to a variety of RNSS related ITU-R Recommendations.

Summary of the meeting outputs relevant to AI 9.1b

(Temp 62) Annex [TBD] to the chairman’s report [4C/yyy]: Working document towards preliminary draft new report [AMATEUR-RNSS]. This working document forms the basis for ongoing contributions and work at the next meeting.

(Temp 61) Annex [TBD] to the chairman’s report [4C/yyy]: Preliminary Draft Revision of **ITU-R M.1902** - RNSS receiver protection criteria were updated to include parameters from China (COMPASS) and France/Italy (Galileo). The preliminary draft revision will remain open until the next WP-4C meeting.

(Temp 59) Annex [TBD] to the chairman’s report [4C/yyy]: Liaison response to WP-5A.

(Temp 58) Annex [TBD] to the chairman’s report [4C/yyy]: Updated work plan for AI9.1 b.

General points

The only administration that can be considered supportive towards proper treatment of the Amateur Services in this work is Germany. It remains the case that further support would be beneficial especially from outside CEPT.

2. WRC23 AI 1.18 (RNSS and Amateur services coexistence)

Background

As detailed in the report from WRC23 CPM-1, ITU-R WP-4C is also the responsible working party for developing the studies identified under *invites 1, 2 and 3* of **Resolution 248 on WRC23 AI 1.18 (spectrum needs and potential new allocations to the mobile-satellite service)**. The frequency range 3 300-3 315 MHz, 3 385-3 400 MHz in Region 2 is within the scope.

The Amateur Service has a secondary allocation in this range.

IARU objectives

None were specifically identified for this meeting but the topic was monitored.

Meeting Activity

The meeting activity focussed on estimating spectrum requirements and sharing/compatibility requirements. Two draft reports are under development [NB_MSS] relating to spectrum needs and [NB.MSS compatibility] for the compatibility studies in the various bands under the scope of the Resolution.

A correspondence group will be convened ahead of the next meeting and IARU will monitor.

Summary of the meeting outputs relevant to AI 1.18

(Temp 46) Annex [TBD] to the chairman's report [4C/yyy]: Working document on studies relating to spectrum needs and potential new allocations to the mobile-satellite service in the frequency bands 1 695-1 710 MHz, 2 010-2 025 MHz, 3 300-3 315 MHz and 3 385-3 400 MHz for future development of narrowband mobile-satellite systems.

(Temp 47) Annex [TBD] to the chairman's report [4C/yyy]: Working document on sharing and compatibility studies for Narrowband MSS with incumbent services in the frequency bands 1 695-1 710 MHz, 2 010-2 025 MHz, 3 300-3 315 MHz and 3 385-3 400 MHz under WRC-23 agenda item 1.18

3. Next WP-4C meeting

5 – 9 July 2021