



# SRLC Report

Friedrichshafen June 2022

*International Amateur Radio Union - Working for the future of amateur radio*



# SRLC

- The agreed SRLC work plan includes elements:
  - Support the IARU preparations for ITU WRC-23 and WRC-27
  - Influence and advocacy in Regional Telecommunications Organisations including CEPT, ASMG, ATU, RCC
  - Influence and advocacy in ASMG
- Work is usually carried out by correspondence through an email group of interested experts.
- Reports are shared with the same group and if newsworthy enough might be made generally available through an IARU web page posting.



# ITU-R and WRC23 / WRC27 Agenda Items

- The core responsibility lies within the IARU International Team.
- The SRLC supports the international team in R1 RTO's by:
  - Leading the global initiatives on WRC23 **AI 9.1(b)** – 23cm/Galileo
  - Playing an active support in other agenda items, specifically **1.2** IMT 3.3 and 10 GHz; **1.12** 45 MHz EESS; **1.14** 231.5-252 GHz; **1.18** NB Satellites 3.3-3.5 GHz; **9.1(a)** Space weather and **AI 10** WRC-27 future agenda items.
  - Submitting and presenting the IARU WRC23 positions to the appropriate RTO preparatory meetings.
  - Reporting any major developments within the RTO preparatory activities.
- (Aside from 9.1b) The most immediately troublesome AI's include 1.12 which could have impact on the new 50MHz band allocations and keeping abreast of the new WRC27 AI10 proposals.

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# WRC23 AI 9.1b – 23cm Band

- The amateur services are in a challenging regulatory position having a secondary allocation in the Radio Regulations.
  - Secondary services must not cause interference to services with a primary allocation.
  - RNSS has a primary allocation (with other services).
- Work in ITU-R (and CEPT) has highlighted the potential for interference from amateur applications in the band.
- ITU-R is developing guidance material for administrations on how they can ensure the RNSS is protected in their country.
- WRC23 will formalise this outcome.

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# Implications for the 23cm Band



- Removing the allocation is outside the scope of the WRC related work.
- But there will be power constraints on large parts of the band for amateur and amateur satellite operation.
- An ITU-R Recommendation is under development (working doc.) in ITU-R WP5A.
  - To provide guidance for administrations on constraints required on amateur service operation to protect the RNSS primary allocation.
- CEPT will mirror this as guidance in a Decision (to harmonise the band for RNSS).
- EU may mandate the guidance in an EC Decision for EU countries.
- At WRC, some countries may try to mandate the guidance in the Radio Regs by incorporation by reference or through an updated WRC Resolution.

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# Proposals for the 23cm band

- Two elements are considered:
  - Frequency separation.
  - Power level restrictions.
- None of these proposals are agreed at this time but remain under serious consideration:
  - Allow higher power operations (100W) in the range 1298-1300MHz plus....
  - ....allow higher power (100W) spectrum for ATV (Digital only) at 1250-1254 MHz plus.....
  - ...Amateur satellite higher power operation (20W) in 1260-1262 MHz.....
  - .... 5mW power limit across the remaining parts of the 23cm band.
  - Or....only remove ATV operation across the centre of the GALILEO band
  - ...identify a small low power segment for FM voice channels around 1293 MHz.
  - Or.....limit all amateur eirp to less than 1W across the entire band.



# Work in CEPT / ECC<sup>1</sup>

- IARU SRLC volunteers participate in the top level ECC plenary meeting and the subordinate Working Groups Spectrum Engineering (WG-SE) and Frequency Management (WG-FM).
- WG-FM (through the RAFG<sup>2</sup>) maintains the Amateur Radio related deliverables relating to the CEPT licence and the harmonised examination certificate.
- WG-SE carries out technical studies on new applications and spectrum usages.
- Both groups have project teams that take on specific work items (E.G. SE24, FM44 and so on.)

<sup>1</sup> Electronic Communications Committee

<sup>2</sup> Radio Amateur Forum Group



# Hot topics in the ECC WG's

- Wireless Power Transfer both generally and for Electric Vehicles (LF and low HF band impacts).
  - Dedicated team fully engaged with CEPT and the Eu Commission.
- 23cm band / RNSS/ GALILEO issue.
  - Dedicated team fully engaged with CEPT and the RNSS proponents.
- UWB and millimetric wave sensor technologies in high GHz bands.





# Contributions

- SRLC develops contributions to the appropriate external organisation working teams which have included:
  - Proposals for the 23cm band studies (in WG-SE PT SE40)
  - Proposals and technical material for the development of WPT studies (in WG-SE and ECC)
  - Proposals and technical material for the development of WG-SE studies on the millimetric frequency short range devices and radar systems (in WG-SE PT SE24)
- SRLC has also carried the IARU positions into the WRC23 process.
- SRLC has also initiated contributions to the ITU-R (WPT and 23cm band)



# Participation and Volunteers

- Since January 2021 the SRLC has monitored or participated in:
  - 35 CEPT working groups and project teams
  - 14 WRC23 preparatory meetings across all R1 RTO's.
  - 7 ITU-R WRC23 related study group meetings.
- These have been covered by approximately 8 key volunteers both in person or remotely as the situation demands.
- SRLC would like to thank this team of volunteers for the support and dedication to the tasks in hand.
- New volunteers are required.

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