



**CTU
SPECTRUM MANAGEMENT
TASK FORCE
CITEL PCC-II
Oct 2022 Meeting Update**

6-8 February 2023

Carmelo Rivera

CITEL PCC-II Update

- 30 October – 4 November, 2022
- Port of Spain, Trinidad
- Hybrid Meeting (In person and remote)
- 4 meeting sessions per day
 - Two 90 minute sessions each morning
 - Two 60 minute sessions each afternoon
- 300+ delegates from 24 Member States, 31 Associate Members and representatives from 2 regional telecommunications organizations

CITEL WRC-23 SGT-1

- SGT-1 – Mobile, Fixed and Broadcast
- Agenda Items 1.1, 1.2, 1.3, 1.4, 1.5, 9.1(C), 9.2 Terrestrial
- Coordinator – Amy Sanders (USA) – asanders@ntia.gov
- Alternate Coordinator – Jose Costa (CAN) – jose.costa@ericsson.com

Agenda Item 1.1

- to consider, based on the results of the ITU-R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. **5.441B** in accordance with Resolution **223 (Rev.WRC-19)**;
- Canada submitted a proposal to modify 5.441B to apply the pfd criteria in the 4800-4990 MHz band to all countries.

Agenda Item 1.2

- to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **COM6/2 (WRC-19)**;
- United States Preliminary Proposal for No Change in the 6425 – 7075 MHz band in Region 2. Costa Rica and the Dominican Republic supported and elevated the proposal to a Draft Inter-American Proposal (DIAP).
- Brazil Preliminary Proposal for IMT allocation in the 10 GHz band was supported by Ecuador, Uruguay and Peru and elevated to a Draft Inter-American Proposal.
- Canada submitted a proposal for no change in the 10 GHz band.

Agenda Item 1.2

- **3600 – 3800 MHz band**
- Brazil Preliminary Proposal for IMT allocation to the 3300-3400 MHz band was supported by Argentina, Belize, Costa Rica, Dominican Republic, Ecuador, Mexico, Paraguay and Uruguay giving the proposal the status of Inter-American Proposal (IAP).
- Brazil submitted a proposal to modify 5.434 to identify IMT in the 3600-3700 MHz band in Region 2.
- Canada Preliminary Proposal for IMT allocation in the 3700 – 3800 MHz band.
- United States Proposal to modify 5.434 to identify use of IMT in the 3600-3800 MHz band by administrations wishing to implement IMT. Supported by Peru and [Uruguay] giving the proposal the status of Draft IAP.
- Argentina submitted a proposal to modify 5.434 to allow countries to add their names to 5.434 if they want to identify the 3600 – 3700 MHz band for use of IMT. This proposal was supported by Bolivia and Mexico elevating the proposal to DIAP. The U.S. argued that adding administration names to a footnote comes under AI 8 and not AI 1.2.

Agenda item 1.3

- to consider primary allocation of the band 3 600-3 800 MHz to mobile service within Region 1 and take appropriate regulatory actions, in accordance with **Resolution COM6/3 (WRC-19)**;
- Argentina, Brazil, Mexico, Ecuador, [Uruguay] supported a DIAP which states that any changes to the Radio Regulations in the 3600–3700 MHz band in Region 1 must not impact the existing allocations for Region 2. Therefore NOC in Region 2 under this A.I..

Agenda Item 1.4

- to consider, in accordance with Resolution **COM6/4 (WRC-19)**, the use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level;
- Brazil Preliminary Proposal supporting allocations to HIBS in all of the proposed bands. The proposal was supported by Ecuador and [Dominican Republic]. The proposal is now a DIAP.
- United States submitted a proposal for no change in all proposed bands.

Agenda Item 1.5

- to review the spectrum use and spectrum needs of existing services in the frequency band 470-960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470-694 MHz in Region 1 on the basis of the review in accordance with Resolution **235 (WRC-19)**;
- Argentina, Brazil, Mexico, Ecuador, Uruguay supported a DIAP which states that any changes to the Radio Regulations in the 470-960 MHz band in Region 1 must not impact the existing allocations for Region 2. Therefore NOC in Region 2 under this A.I..

Agenda Item 9.1 Topic C

- 9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention;
- 9.1 on the activities of the Radiocommunication Sector since WRC-19:
 - 9.1.3 Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution **COM6/18 (WRC-19)**;
- Mexico Preliminary Proposal for No Change to the Radio Regulations supported by Argentina, Brazil, Dominican Republic, Ecuador, Mexico, Paraguay, Uruguay and the United States. The proposal is now an IAP.

Agenda Item 9.2 (Terrestrial)

on any difficulties or inconsistencies encountered in the application of the Radio Regulations;

This agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations.

Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

- No change from previous meeting

CITEL WRC-23 SGT-2

- SGT-2 – Radiolocation, Maritime, Aeronautical
- Agenda Items 1.6, 1.7, 1.8, 1.9, 1.10, 1.11
- Coordinator – Michael Razi (CAN) – mrazi@parscom.ca
- Alternate Coordinator – Jose Luis Hernandez Lara (MEX) – Jose.Hernandezl@ift.org.mx

Agenda Item 1.6

to consider, in accordance with Resolution **COM6/5 (WRC-19)**, regulatory provisions to facilitate radiocommunications for sub-orbital vehicles;

Canada submitted a proposal that received support from Brazil and the United States. The proposal is now a DIAP.

Agenda Item 1.7

- to consider a new aeronautical mobile-satellite (R) service (AMS(R)S) allocation in accordance with Resolution **COM6/6 (WRC-19)** for both the Earth-to-space and space-to-Earth directions of aeronautical VHF communications in all or part of the frequency band 117.975-137 MHz, while preventing any undue constraints on existing VHF systems operating in the AM(R)S, the ARNS, and in adjacent frequency bands;
- Brazil, Canada and United States submitted proposals for this agenda item. Parts of the proposals were merged and supported by at least one other administration please see document **CITEL/GT/CMR-23/doc. 066/22**.

Agenda Item 1.8

- to consider, on the basis of ITU-R studies in accordance with Resolution **COM6/7 (WRC-19)**, appropriate regulatory actions, with a view to reviewing and, if necessary, revising Resolution **155 (Rev.WRC-19)** and No. **5.484B** to accommodate the use of fixed-satellite service (FSS) networks by control and non-payload communications of unmanned aircraft systems;
- The United States submitted a proposal that modifies 5.484B to provide clarity to the services and systems for which it applies

Agenda Item 1.9

to review Appendix **27** of the Radio Regulations and consider appropriate regulatory actions and updates based on ITU-R studies, in order to accommodate digital technologies for commercial aviation safety-of-life applications in existing HF bands allocated to the aeronautical mobile (route) service and ensure coexistence of current HF systems alongside modernized HF systems, in accordance with Resolution **COM6/8 (WRC-19)**;

No change from previous meeting.

Agenda Item 1.10

- to conduct studies on spectrum needs, coexistence with radiocommunication services and regulatory measures for possible new allocations for the aeronautical mobile service for the use of non-safety aeronautical mobile applications, in accordance with Resolution **COM6/9 (WRC-19)**;
- United States submitted a proposal for no change to the Radio Regulations.

Agenda Item 1.11

- to consider possible regulatory actions to support the modernization of the Global Maritime Distress and Safety System and the implementation of e-navigation, in accordance with Resolution **361 (Rev.WRC-19)**;
- Canada submitted a proposal to modify 5.110.

CITEL WRC-23 SGT-3

- SGT-3 – Science Services
- Agenda Items 1.12, 1.13, 1.14, 9.1(A)
- Coordinator – Edwin Andres Montes de Oca Perez (MEX) –
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- Alternate Coordinator – TBD

Agenda Item 1.12

to conduct, and complete in time for WRC-23, studies for a possible new secondary allocation to the Earth exploration-satellite (active) service for spaceborne radar sounders within the range of frequencies around 45 MHz, taking into account the protection of incumbent services, including in adjacent bands, in accordance with Resolution **656 (Rev.WRC-19)**;

No change from previous meeting

Agenda Item 1.13

to consider a possible upgrade of the allocation of the frequency band 14.8-15.35 GHz to the space research service, in accordance with Resolution **COM6/10 (WRC-19)**;

No change from previous meeting

Agenda Item 1.14

- to review and consider possible adjustments of the existing or possible new primary frequency allocations to EESS (passive) in the frequency range 231.5-252 GHz, to ensure alignment with more up-to-date remote-sensing observation requirements, in accordance with Resolution **COM6/11 (WRC-19)**;
- Canada submitted a proposal to add additional spectrum for EESS (passive) in the subject band. The proposal was supported by Ecuador elevating it to a DIAP.

Agenda Item 9.1 Topic A

- 9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention;
- 9.1 on the activities of the Radiocommunication Sector since WRC-19:
 - 9.1.1 In accordance with Resolution **657 (Rev.WRC-19)**, review the results of studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for space weather sensors with a view to describing appropriate recognition and protection in the Radio Regulations without placing additional constraints on incumbent services;

No change from previous meeting

CITEL WRC-23 SGT-4

- SGT-4 – Satellite Services
- Agenda Items 1.15, 1.16, 1.17, 1.18, 1.19, 7, 9.2 (Satellite), 9.3
- Coordinator – Afonso Rocha (B) – afonsor@anatel.gov.br
- Alternate Coordinator – Maria Fernanda Sanchez Zavala (MEX) – Fernanda.sanchez@ift.org.mx

Agenda Item 1.15

- to harmonize the use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels communicating with geostationary space stations in the fixed-satellite service globally, in accordance with Resolution **COM6/12 (WRC-19)**;
- Canada and Mexico submitted proposals which were merged to create a DIAP adding a footnote to Art 5 on the operation of earth stations on aircraft and vessels communicating with geostationary space stations.

Agenda Item 1.16

to study and develop technical, operational and regulatory measures, as appropriate, to facilitate the use of the frequency bands 17.7-18.6 GHz and 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) by non-GSO FSS earth stations in motion, while ensuring due protection of existing services in those frequency bands, in accordance with Resolution **COM6/13 (WRC-19)**;

- Brazil submitted a Preliminary Proposal adding a footnote for ESIMS communicating with FSS in several bands. Canada supported the proposal elevating it to a Draft Inter-American Proposal.

Agenda Item 1.17

to determine and carry out, on the basis of the ITU-R studies in accordance with Resolution **COM6/14 (WRC-19)**, the appropriate regulatory actions for the provision of inter-satellite links in specific frequency bands, or portions thereof, by adding an inter-satellite service allocation where appropriate;

No change from previous meeting

Agenda Item 1.18

to consider studies relating to spectrum needs and potential new allocations to the mobile-satellite service for future development of narrowband mobile-satellite systems, in accordance with Resolution **COM6/15 (WRC-19)**;

- United States Preliminary Proposal for No Change to the Radio Regulations supported by Mexico elevating to a DIAP

Agenda Item 1.19

- to consider a new primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2, while protecting existing primary services in the band, in accordance with Resolution **COM6/16 (WRC-19)**;
- Brazil Preliminary Proposal for a primary allocation to the FSS in the 17.3-17.7 GHz band in Region 2 the proposal was supported by Argentina, Brazil, [Canada}, Costa Rica, Ecuador, Mexico and United States making the proposal an IAP.

Agenda Item 7

- to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution 86 (Rev. WRC-07), in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;
- Brazil and Canada combined Preliminary Proposals on Topic D to modify Appendix 1 to Annex 4 of RR Appendix 30B elevated to an IAP by the support of Argentina, Colombia, Costa Rica, Ecuador, Mexico, Paraguay, Uruguay and United States.

Agenda Item 9.2 Satellite

- 9.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations;
- This agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.
- No change from previous meeting

Agenda Item 9.3

on action in response to Resolution **80 (Rev.WRC-07)**;

No change from previous meeting

CITEL WRC-23 SGT-5

- SGT-5 – General regulatory, Future work & Other
- Agenda Items 2, 4, 9.1B, 9.1D, 10
- Coordinator – Ricardo Martinez Duque (CLM) – Ricardo.martinez@ane.gov.co
- Alternate Coordinator – Kenji Kuramochi (PRG) – kenji@conatel.gov.py

Agenda Item 2

to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with *further resolves* of Resolution **27 (Rev.WRC-19)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in *resolves* of that Resolution;

Agenda Item 4

- in accordance with Resolution **95 (Rev.WRC-19)**, to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;
- United States submitted a proposal to modify Res 655 (WRC-15).

Agenda Item 9.1 Topic B

- 9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention;
- 9.1 on the activities of the Radiocommunication Sector since WRC-19:

9.1.2 Review of the amateur service and the amateur-satellite service allocations in the frequency band 1 240-1 300 MHz to determine if additional measures are required to ensure protection of the radionavigation-satellite (space-to-Earth) service operating in the same band in accordance with Resolution **COM6/17 (WRC-19)**;

Agenda Item 9.1 Topic D

- 9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention;
- 9.1 on the activities of the Radiocommunication Sector since WRC-19:

9.1.4 to review protection of EESS (passive) in the Frequency band 36-17 GHz from non-GSO FSS space stations

Agenda Item 10

- Future Agenda Items
- Mexico submitted a proposal to study and develop technical, operational and regulatory measures to facilitate the use of the 51.4 – 52.4 GHz band allocated to FSS to earth stations of non-geostationary systems
- Mexico submitted a proposal to study and develop technical, operational and regulatory measures, as appropriate, to facilitate the use of the frequency bands 37.5-39.5 GHz (space-to-Earth), 40.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) by aeronautical and maritime earth stations in motion communicating with space stations in the fixed satellite service, in accordance with Resolution 176 (WRC-19);

Upcoming Dates

- Next CITELE PCC.II meetings scheduled for:
May 22 – 26, 2023 in Mexico (Limit Meeting)
August 28 – September 1, 2023 in Canada (Final Meeting)
- WRC-23 CPM2 scheduled March 27 – April 7, 2023 in Geneva
- Radiocommunication Assembly scheduled 13-17 November, 2023
- WRC-23 scheduled November 20 – December 15, 2023 in Dubai
- WRC-27 CPM1 scheduled 18-19 December, 2023

Any Questions?

Thank you!

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