

**3<sup>rd</sup> ITU INTER-REGIONAL WORKSHOP  
ON WRC-15 PREPARATION  
(Geneva, 1 – 3 September 2015)**

**Status of Preparations  
for WRC-15**

***Inter-American  
Telecommunication  
Commission (CITEL)  
August 24, 2015***

**3<sup>rd</sup> ITU INTER-REGIONAL  
WORKSHOP ON WRC-15  
PREPARATION**

**GENEVA, SWITZERLAND  
1-3 SEPTEMBER 2015**

[www.itu.int/go/ITU-R/WRC-15-irwsp-15/](http://www.itu.int/go/ITU-R/WRC-15-irwsp-15/)



# Status of Preparations for WRC-15

Inter-American Telecommunication Commission (CITEL)  
August 24, 2015



Organization of  
American States



## Working Group established within PCC.II

Chair: Uruguay, Hector Bude  
([hbude@ursec.gub.uy](mailto:hbude@ursec.gub.uy))

Vice-Chair: United States of America, Carmelo Rivera  
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Final meeting to prepare for WRC-15 held August 17-21, 2015 in  
Ottawa, Canada



# WRC Working Group Structure

Sub WG	Title	Agenda items	Coordinator
SGT1	Mobile & Fixed	1.1, 1.2, 1.3	Mr. Marco Antonio ESCALANTE GUATEMALA
SGT2	Radiolocation, Amateur, Maritime & Aeronautical	1.4, 1.5, 1.15, 1.16, 1.17, 1.18, GFT	Mr. Jonathan WILLIAMS UNITED STATES OF AMERICA
SGT3	Space Science & MSS	1.10, 1.11, 1.12, 1.13, 1.14, 1.9.2, 9.1.1, 9.2.2	Mr. Tarcisio BAKAUS BRAZIL
SGT4	FSS & Satellite Regulatory	1.6.1, 1.6.2, 1.7, 1.8, 1.9.1, 7, 9.1, 9.1.2, 9.1.3, 9.1.5, 9.1.8, 9.1*, 9.2*, 9.3 *Satellite issues	Mr. Jerry CONNER UNITED STATES OF AMERICA
SGT5	General Regulatory, Future Work & Other	2, 4, 8, 9.1.4, 9.1.6, 9.1.7, 9.2*, 10 *Non-satellite issues	Mr. Carmelo RIVERA UNITED STATES OF AMERICA



## INTER – AMERICAN PROPOSALS : DEFINITIONS

- **DRAFT INTER-AMERICAN PROPOSAL (DIAP):** PRELIMINARY PROPOSAL that has been supported by at least one other Member State.
  - Still being considered for agenda item 10 only
  - *Administrations have until September 4, 2015 to indicate their support for AI 10 proposals, so IAPs for additional future agenda items may be forthcoming.*
- **INTER-AMERICAN PROPOSAL (IAP):** DRAFT INTER-AMERICAN PROPOSAL (DIAP) for which the PCC II has ended its consideration and discussion, has been supported by at least six Members States and is not opposed by more than 50% of the number of supports obtained.
  - IAPs adopted on all agenda items and issues except 1.1 UHF band, 1.2, 1.6.2 for the 14.5-15.4 GHz band, 1.8, 7 (Issue C and Issues H to L), 9.1.3, 9.1.4, 9.1.5, 9.2 (except for 9.2.2) and 9.3



# Mobile and Amateur Issues

(1.1, 1.2, 1.3, 1.4)



## Agenda Item 1.1: *IMT/terrestrial mobile broadband*

### **MOD Art 5:**

- 1427-1518 MHz: Identification for IMT and other provisions (mandatory limits for unwanted emissions -72 dBW/27 MHz for base stations and -62 dBW/27 MHz for user equipment and NOC to No. **5.343**)
- 3400-3600 MHz: Mobile service allocation in 3400-3500 MHz and identification for IMT in 3400-3600 MHz

### **NOC:**

410-450 MHz, 1164-1215/1215-1300/1559-1610 MHz, 2025-2110/2200-2290 MHz, 2700-2900 MHz, 3600-4200 MHz, 4500-4800 MHz, 5350-5470 MHz and 5850-6425 MHz

*Issue Coordinator: Geraldo NETO (B), [gneto@qti.qualcomm.com](mailto:gneto@qti.qualcomm.com)*



## Agenda Item 1.3: *Broadband PPDR*

### Method D

- MOD Resolution **646 (Rev.WRC-12)** – *The proposal includes:*
  - “to encourage administrations to consider the 698-869 MHz frequency tuning ranges ... to achieve global harmonization”
  - “that specific information on the frequency arrangements for public protection and disaster relief, as well as the specific details of the Regions and/or administrations be contained in Recommendation ITU-R M.2015”
- SUP Resolution **648**

*Issue Coordinator: Luis LARA (MEX), [Luis.lara@motorolasolutions.com](mailto:Luis.lara@motorolasolutions.com)*





## ***Agenda Item 1.4: Possible secondary amateur service allocation within 5 250-5 450 kHz***

### **Method A1**

- ADD a new global secondary allocation to the amateur service in the band 5 275-5 450 kHz
- ADD new footnote stating that administrations may adopt additional constraints

*Issue Coordinator: Alkin SAUCEDO (PNR), [asaucedo@asep.gob.pa](mailto:asaucedo@asep.gob.pa)*



# Maritime, Aeronautical and Radiolocation Issues

(1.5, 1.15, 1.16, 1.17, 1.18, GFT)



## Agenda Item 1.5: *UAS - Satellite*

### Based on Method A

- MOD Article **5** in various portions of the frequency bands, 10.7-14.5, 17.3-18.4, 18.4-20.2, 27.5-29.9 GHz
- ADD footnote **5.XXX** in most FSS bands from 10-30 GHz to allow for control and non-payload communication (CNPC) of unmanned aircraft systems
- ADD Resolution specifying regulatory and operational provisions

*Issue Coordinator: Jonathan WILLIAMS (USA), [jwilliams@ntia.doc.gov](mailto:jwilliams@ntia.doc.gov)*



## **Agenda Item 1.15: *On-board communication stations in the maritime mobile service***

### **Method A (Single CPM Method)**

- MOD No. **5.287** to permit additional channeling in the same band segment already envisaged in the RR, as well as digital technology, to facilitate more efficient spectrum use.
- SUP Resolution **358 (WRC-12)**

*Issue Coordinator: Denis PAPINEAU (CAN), [Denis.papineau@ic.gc.ca](mailto:Denis.papineau@ic.gc.ca)*



## ***Agenda Item 1.16: New AIS technology applications and possible new applications to improve maritime radiocommunication***

### **MOD Appendix 18**

- Split channels 27 and 28 for the designation of 2027 and 2028 to application specific messages (ASM) to reduce AIS loading due to the proliferation of AIS applications, message types, services and equipment types plus the unanticipated increase in user volume.
- Channels 2078, 2019, 2079 and 2020 are not available for transmitting from ships to avoid interference to AIS reception on board ship stations.
- Includes a country footnote for administrations that use channels 27 and 28 for public correspondence

### **MOD Article 5**

- New secondary allocation to the MMSS (Earth-to-space) limited to the designated ASM channels 2027 and 2028 identified in AP **18**.

*Issue Coordinator: Denis PAPINEAU (CAN), [Denis.papineau@ic.gc.ca](mailto:Denis.papineau@ic.gc.ca)*



## Agenda Item 1.17: *Wireless avionics intra-communications*

### Method A

- MOD Article 5 for a new primary AM(R)S allocation in the 4 200-4 400 MHz band with a footnote limiting its use for WAIC systems
- ADD a footnote to indicate that passive sensing in the EESS and SRS may be allocated on a secondary basis (maintaining the current allowance of these services), and that no protection is afforded to these services.
- ADD Resolution to indicate regulatory provisions related to the operation of WAIC

*Issue Coordinator: Marcella OST (CAN), [marcella.s.ost@boeing.com](mailto:marcella.s.ost@boeing.com)*



## ***Agenda Item 1.18: Radiolocation service for automotive applications in 77.5-78.0 GHz***

- MOD Article **5** for a primary allocation to the radiolocation service in the frequency band 77.5-78 GHz
- ADD No. **5.A118** to note that the use of the 77.5-78 GHz frequency band by the radiolocation service is limited to short range radar surface applications, including automotive applications. The provisions of No. 4.10 do not apply.

*Issue Coordinator: TBD (USA)*



## Agenda Item *Global Flight Tracking (GFT)*

- MOD Article 5 for a primary allocation to AMS(R)S in the 1 087.7-1 092.3 MHz band to enable satellite reception of automatic dependent surveillance-broadcast (ADS-B) messages transmitted in the AM(R)S in accordance with ICAO standards.
- ADD footnote that limits the AMS(R)S allocation to space station reception of automatic dependant surveillance-broadcast (ADS-B) transmissions from aircraft in accordance with recognised international aeronautical standards
- ADD a new resolution including regulatory provisions for the sharing environment between AMS(R)S and incumbent services

*Issue Coordinator: [Lisa AMIRAULT] (CAN), [Lisa.amirault@ic.gc.ca](mailto:Lisa.amirault@ic.gc.ca)*





# Science Issues

(1.11, 1.12, 1.13, 1.14, 9.2.2)



## Agenda Item 1.11: *EESS (E-s) 7-8 GHz*

### Method A option 2

- ADD global primary allocation to EESS (Earth-to-space) in the 7 190-7 250 MHz band and divide the Table of Frequency Allocation at 7 190 MHz to clarify the allocation of services within the Table.
- MOD No. **5.460** - to indicate that geostationary EESS systems shall not claim protection from existing and future stations of the FS and the MS and consequential to dividing the Table at 7 190 MHz
- MOD Article **21** Tables 21-2 and 21-3 - consequential
- MOD Appendix **7** Table 7b – consequential

*Issue Coordinator : Glenn FELDHAKÉ (USA), [glenn.s.feldhake@nasa.gov](mailto:glenn.s.feldhake@nasa.gov)*



## **Agenda Item 1.12: *EESS (active) up to 600 MHz extension within 8 700-9 300 MHz and/or 9 900-10 500 MHz***

### **Method A option 1**

- New global primary EESS (active) allocation in the band 9 900-10 500 MHz
- MOD footnote **No. 5.476A** to protect the radiolocation and radionavigation services
- ADD footnote **No. 5.A112** to ensure the newly allocated spectrum is used solely by high resolution EESS systems whose spectrum needs exceed the existing EESS allocation in the 9 300-9 900 MHz band
- SUP Resolution **651 (WRC-12)**

*Issue Coordinator: Vassilios MIMIS (CAN), [vmimis@primus.ca](mailto:vmimis@primus.ca)*



## ***Agenda Item 1.13: 5 km distance limitation for proximity operations by space vehicles in the SRS (s-s)***

### **Single CPM Method**

- MOD No. **5.268** to remove 5 km distance separation limit, and remove reference to “extra-vehicular activities”
- SUP Resolution **652 (WRC-12)**

*Issue Coordinator: Wayne WHYTE (USA), [Wayne.a.whyte@nasa.gov](mailto:Wayne.a.whyte@nasa.gov)*



## ***Agenda Item 1.14: Continuous reference time-scale - whether by the modification of UTC or some other method***

### **Method A1**

- MOD No. **1.14** to read “Time scale, based on the second (SI) and maintained by the Bureau International de Poids et Mesures (BIPM), that forms the basis for the coordinated dissemination of standard frequencies and time signals.”
- MOD No. **2.5** – consequential change
- MOD No. **2.6** – consequential change
- ADD new Resolution – to establish January 1, 2022 as the date of entry into force of the modified provisions to allow for a transition period for the elimination of the leap seconds
- SUP Resolution **653 (WRC-12)**

*Issue Coordinator: [Brian PATTEN] (USA), [bpatten@ntia.doc.gov](mailto:bpatten@ntia.doc.gov)*



## ***Agenda Item 9.2.2: Clarification of the use of deep-space allocations in regard to certain provisions of the Radio Regulations***

### **Method A (single CPM method)**

- ADD a new provision to Article 4 clarifying that space research systems intended to operate in deep space may also use the space research service (deep space) allocations, with the same status as those allocations, when the spacecraft is near the Earth, such as during launch, early orbit, flying by the Earth, and returning to the Earth.

*Issue Coordinator: Glenn FELDHAKE (USA) [glenn.s.feldhake@nasa.gov](mailto:glenn.s.feldhake@nasa.gov)*



# Satellite Allocation Issues

(1.6, 1.7, 1.8, 1.9, 1.10)



## Agenda Item 1.6.1: *FSS (E-s and s-E) 250 MHz in Region 1 in 10-17 GHz band*

### Method D1, E1, F1, G1, H1, I1, J1 and K1

- NOC to Article 5 for the:
  - 13.25-13.4 GHz band because of incompatibility with EESS and ARNS systems
  - 13.4-13.75 GHz band because of incompatibility with EESS from FSS (E-s)
  - 14.5-15.4 GHz band because of incompatibility with MS and AMS systems
  - 15.4-17.1 GHz band because of incompatibility with RLS systems
- SUP Resolution **151 (WRC-12)**

*Issue Coordinator: [Karl NEBBIA] (USA), [knebbia@alionscience.com](mailto:knebbia@alionscience.com)*





## **Agenda Item 1.6.2: *FSS (E-s) 250 MHz in Region 2 and 300 MHz in Region 3 in 13-17 GHz band***

### **Method D1, E1, I1, J1 and K1**

- NOC to Article 5 for the:
  - 13.25-13.4 GHz band because of incompatibility with EESS and ARNS systems
  - 13.4-13.75 GHz band because of incompatibility with EESS
  - 15.4-17.1 GHz band because of incompatibility with RLS systems
- SUP Resolution **152 (WRC-12)**

*Issue Coordinator: [Karl NEBBIA] (USA), [knebbia@alionscience.com](mailto:knebbia@alionscience.com)*



## Agenda Item 1.7: *FSS (E-s) NGSO MSS Feeder Links 5 091-5 150 MHz*

### Single CPM Method

- MOD Article **5** to add FSS primary allocation in the 5091-5150 MHz band for feeder links of the non-GSO mobile satellite systems in the MSS
- MOD No. **5.444A** to remove the time constraint elements on the FSS allocation while keeping all the other applicable regulatory provisions, i.e. No. **9.11A** and Resolution **114**
- MOD Appendix **7** to reflect the method of coordination that is to be used between FSS earth stations and ARNS stations
- MOD Resolution **114** : consequential changes

*Issue Coordinator: Luis Fernando DE SOUZA (B), [lfsouza@embraer.com.br](mailto:lfsouza@embraer.com.br)*



## **Agenda Item 1.9.1: *FSS 7 150-7 250 MHz (s-E) and 8 400-8 500 MHz (E-s)***

### **Method C**

- NOC to Article 5 as ITU-R studies indicate a potential for interference into existing services, both in-band and adjacent band
- SUP Resolution **758 (WRC-12)**

*Issue Coordinator: Tom VONDEAK (USA), [Thomas.vonDeak@nasa.gov](mailto:Thomas.vonDeak@nasa.gov)*



## Agenda Item 1.9.2: *MMSS 7 375-7 750 MHz and 8 025-8 400 MHz*

### Method A

- NOC to Article **5** as ITU-R studies indicate a potential for interference into existing services, both in-band and adjacent band
- SUP Resolution **758** (WRC-12)

*Issue Coordinator : Afonso ROCHA (B), [afonsor@anatel.gov.br](mailto:afonsor@anatel.gov.br)*



## ***Agenda Item 1.10: MSS, including the satellite component for broadband applications, including IMT 22 GHz to 26 GHz***

### **Method A**

- NOC to Article **5** as sharing with incumbent services in all cases is either not feasible or will require technical and operational constraints that will be impractical for use by the MSS
- SUP Resolution **234** (WRC-12)

*Issue Coordinator : Donald JANSKY (USA), [donjansky@barmat.com](mailto:donjansky@barmat.com)*



# Satellite Regulatory Issues

(7, 9.1, 9.1.1, 9.1.2, 9.1.3,  
9.1.5, 9.1.8, 9.2, 9.3)



## ***Agenda Item 7 (Issue A): Notification of suspension under No. 11.49 beyond six months***

### **Method A1**

- NOC to No. **11.49** since it is unnecessary to make changes or incorporate requirements additional to those now established for No. **11.49**, since the existing regulatory procedures (RR **13.6**) are sufficient to ensure compliance with the provisions of RR **11.49**, especially those related to the suspension period.

*Issue Coordinators: [Juan MASCIOTRA] (ARG), [jmasciotra@cnc.gov.ar](mailto:jmasciotra@cnc.gov.ar)*

*Michel-Olivier NDI (CAN), [Michelolivier.ndi@ic.gc.ca](mailto:Michelolivier.ndi@ic.gc.ca)*



## ***Agenda Item 7 (Issue B): Publication of information on BIU of satellite networks at the ITU website***

### **Method B1 Option A**

- MOD to Nos. **11.44B/11.49**, § 5.2.10 of **Ap30/Ap30A** and § 8.17 of **Ap30B** to indicate that the information shall be made available on the ITU website as soon as possible and shall be published in the BR IFIC.
- NOC to No. **11.49.1**

*Issue Coordinators: [Juan MASCIOTRA] (ARG), [jmasciotra@cnc.gov.ar](mailto:jmasciotra@cnc.gov.ar)*

*Michel-Olivier NDI (CAN), [Michelolivier.ndi@ic.gc.ca](mailto:Michelolivier.ndi@ic.gc.ca)*





## ***Agenda Item 7 (Issue D): General use of modern electronic means of communications and notification procedures***

### **Single CPM Method**

- MOD Resolution **907** to promote the use of modern electronic means of communications for exchanges between Administrations or with the Bureau.
- MOD Resolution **908** to expand the use of electronic means for the submission and publication of satellite networks under Articles **9**, **11** as well as Appendices **30**, **30A** and **30B** and other relevant Resolutions.

*Issue Coordinators: [Juan MASCIOTRA] (ARG), [jmasciotra@cnc.gov.ar](mailto:jmasciotra@cnc.gov.ar)*

*Michel-Olivier NDI (CAN), [Michelolivier.ndi@ic.gc.ca](mailto:Michelolivier.ndi@ic.gc.ca)*



## ***Agenda Item 7 (Issue E): Failure of a satellite during the bringing into use period***

### **Method E3**

- NOC to Article **11** since there have not been any demonstrable events of a satellite failure during the BIU period so it is premature and unnecessary to modify the current regulatory procedures.

*Issue Coordinators: [Juan MASCIOTRA] (ARG), [jmasciotra@cnc.gov.ar](mailto:jmasciotra@cnc.gov.ar)*

*Michel-Olivier NDI (CAN), [Michelolivier.ndi@ic.gc.ca](mailto:Michelolivier.ndi@ic.gc.ca)*



## ***Agenda Item 7 (Issue F): Alignment of suspension provisions in Appendix 30B with those in Article 11***

### **Single CPM Method**

- MOD paragraph 6.33 ii) of Article 6 to Appendix **30B** to extend to three years the permitted suspension period
- MOD paragraph 8.17 of Article 8 to Appendix **30B** to clarify the provisions for the bringing back into use of a suspended frequency assignment recorded in the Master Register
- ADD footnote 14*bis* in paragraph 8.17 to align with No. **11.49.1**

*Issue Coordinators: [Juan MASCIOTRA] (ARG), [jmasciotra@cnc.gov.ar](mailto:jmasciotra@cnc.gov.ar)*

*Michel-Olivier NDI (CAN), [Michelolivier.ndi@ic.gc.ca](mailto:Michelolivier.ndi@ic.gc.ca)*



## ***Agenda Item 7 (Issue G): Clarification of the capability of a space station when bringing into use frequency assignments under No. 11.44B of the Radio Regulations***

### **Single CPM Method**

- MOD **11.44/11.44B** and ADD **11.44.3/11.44B.1** to incorporate the Rule of Procedure that enable No. **13.6** processes to be applied to assignments notified but not yet recorded

*Issue Coordinators: [Juan MASCIOTRA] (ARG), [jmasciotra@cnc.gov.ar](mailto:jmasciotra@cnc.gov.ar)*

*Michel-Olivier NDI (CAN), [Michelolivier.ndi@ic.gc.ca](mailto:Michelolivier.ndi@ic.gc.ca)*



## ***Agenda Item 9: Provide global broadband satellite spectrum for earth stations on mobile platforms (ESOMPS)***

- ADD new footnote in Article 5 to FSS bands in 19.7-20.2 GHz and 29.5-30 GHz to permit earth stations that are in motion to communicate with GSO space stations of the fixed-satellite service
- ADD new Resolution to regulate the authorization and operation of the ESOMPS

*Issue Coordinator : Giselle CREESER (USA), [gisellecreeser@gmail.com](mailto:gisellecreeser@gmail.com)*



## **Agenda Item 9.1.1: *Protection of the systems operating in the MSS in 406-406.1 MHz***

### **Option B**

- MOD Article 5 to add a new footnote in the 403-410 MHz band to indicate that Resolution 205 applies
- MOD Resolution 205
  - To strongly recommend that no new frequency assignment be made in the band 406.1 – 406.2 MHz for new land mobile stations and that frequency drift be taken into account when deploying radio-sondes systems above 405 MHz.
  - Measures to limit the levels of unwanted emissions in the 406-406.1 MHz band and to improve the robustness of the satellite receivers should also be taken.

*Issue Coordinator: Carmelo RIVERA (USA), [crivera@doc.gov](mailto:crivera@doc.gov)*



## ***Agenda Item 9.1.2: Reduction of the coordination arc and technical criteria used in application of No. 9.41***

### **Method 2A**

- MOD Appendix 5 Table 5-1 to reduce the coordination arc:
  - 3 400-4 200 MHz, 5 725-5 850 MHz (Region 1), 5 850-6 725 MHz and 7 025-7 075 MHz from 7 to 5 degrees
  - 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz (Region 2), 12.2-12.5 GHz (Region 3), 12.5-12.75 GHz (Regions 1 and 3), 12.7-12.75 GHz (Region 2) and 13.75-14.5 GHz from 8 to 6 degrees

*Issue Coordinator: Hugo TRIVINO (CLM), [htrivino@mintic.gov.co](mailto:htrivino@mintic.gov.co)*



## Agenda Item 9.1.8: *Regulatory aspects for nano- and picosatellites*

- SUP Agenda Item 2.2 in Resolution 808 (WRC-12) for no dedicated WRC-19 agenda item to address filing procedures for nanosatellites and picosatellites that could be addressed under the standing WRC agenda item for issues pertaining to satellite networks.
- SUP Resolution **757 (WRC-12)**

*Issue Coordinator: Glenn FELDHAKÉ (USA), [glenn.s.feldhake@nasa.gov](mailto:glenn.s.feldhake@nasa.gov)*





# General Issues

(2, 4, 8, 9.1.4, 9.1.6, 9.1.7, 9.2, 9.3)



## ***Agenda Item 2: ITU-R Recommendations incorporated by reference (Resolutions 27 and 28)***

### **Inter-American Proposals**

- 28 proposals to update references to ITU-R Recommendations incorporated by reference in the Radio Regulations, or to clarify their status

*Issue Coordinator: Chris LAFKAS (CAN), [Chris.lafkas@ic.gc.ca](mailto:Chris.lafkas@ic.gc.ca)*



## ***Agenda Item 4: Review of Resolutions and Recommendations (Resolution 95)***

### **Inter-American Proposals**

- 40 proposals on whether to retain, amend or suppress specific Resolutions and Recommendations from previous conferences

*Issue Coordinator: Chris LAFKAS (CAN), [Chris.lafkas@ic.gc.ca](mailto:Chris.lafkas@ic.gc.ca)*



## ***Agenda Item 9.1.6: Studies towards review of the definitions of fixed service, fixed station, and mobile station***

### **Single CPM Method**

- SUP Resolution **957** as there is no other method identified in the draft CPM report, as a result of the study cycle.

*Issue Coordinator: Hugo TRIVINO (CLM), [htrivino@mintic.gov.co](mailto:htrivino@mintic.gov.co)*



## ***Agenda Item 9.1.7: Spectrum management guidelines for emergency and disaster relief radiocommunication***

### **Option A**

- MOD Resolution **647** placing emphasis on need for administrations to provide point of contact information for inclusion in ITU database
- Incorporates necessary elements from Resolution **644** into updated Resolution **647** and also avoid any duplication or overlap
- SUP Resolution **644** - consequential

*Issue Coordinator: Hugo TRIVINO (CLM), [htrivino@mintic.gov.co](mailto:htrivino@mintic.gov.co)*



## Agenda Item 10: *Agenda Items for Future Conferences*

### Inter-American Proposals:

- *Topic A: Primary Allocation to the Meteorological-Satellite Service in 460-470 MHz* – To allow meteorological-satellite service to operate on a co-primary status with fixed and mobile
- *Topic B: RLAN in the 5350-5470 MHz band* – Consideration of additional primary allocations to the mobile service and identification for the implementation of wireless access systems (WAS) including radio local area networks (RLAN) in the 5350-5470 MHz frequency range
- *Topic C: GADSS* – Spectrum Requirements for the Global Aeronautical Distress and Safety System (GADSS) and Aircraft Flight Tracking

*Issue Coordinator: Camilo ZAMORA (CLM), [camilo.zamora@ane.gov.co](mailto:camilo.zamora@ane.gov.co)*



## Agenda Item 10: *Agenda Items for Future Conferences (cont'd)*

- *Topic D: **Annex 7 to Appendix 30 update*** – BSS and FSS systems serving different regions could successfully exist with orbital separations as small as 0.5 and 2 degrees, depending on the carrier parameters and geographic discrimination assumed
- *Topic E: **Global Maritime Distress and Safety Service (GMDSS) modernization*** – GMDSS Modernization is an important IMO initiative due to be completed by 2018 which may lead to changes of many maritime provisions of the RR
- *Topic F: **Broadband applications delivered from High Altitude Platform Systems (HAPS)*** – Study the possible expansion of existing HAPS identifications by revising existing geographical, technical and regulatory restrictions as well as possible additional identifications within the existing fixed service allocations



## Agenda Item 10: *Agenda Items for Future Conferences (cont'd)*

- *Topic G: Allocation of Earth Exploration-Satellite Service (EESS) in 40-50 MHz (WRC-23)* – Conduct studies to examine the possible allocation, and compatibility of active spaceborne radar sounder operations in 40-50 MHz for measurements of the Earth (radar maps to locate water/ice deposits)
- *Topic I: Additional allocation of fixed-satellite service (FSS)* – Consider spectrum requirements and possible allocation to the FSS in 32.3 - 33 GHz (E-s and s-E) and for reverse direction operations for gateways in 37.5-39.5 GHz
- *Topic XY: Space weather sensors (WRC-23)* – To provide recognition and protection of space weather sensors in the Radio Regulations.

*Issue Coordinator: Camilo ZAMORA (CLM), [camilo.zamora@ane.gov.co](mailto:camilo.zamora@ane.gov.co)*





## Agenda Item 10: *Agenda Items for Future Conferences (cont'd)*

- **Topic XX: IMT above 6 GHz** – Consideration of spectrum requirements and potential identification for the terrestrial component of IMT to facilitate mobile broadband applications in specific frequency ranges within 10-76 GHz
  - 10-10.45 GHz (for countries listed in No. 5.480), 23.15-23.6 GHz, 24.25-27.5 GHz, 27.5-29.5 GHz, 37-40.5 GHz, 45.5-47 GHz, 47.2-50.2 GHz, 50.4-52.6 GHz and 59.3-76 GHz, which have allocations to the mobile service on a primary basis; and
  - 31.8-33 GHz, including possible additional allocation to the mobile service on a primary basis in this band;

### **Draft Inter-American Proposal (5 supports)**

- **Topic H: Non-geostationary Satellites (NGSOs) in the V band** – Eliminate the regulatory uncertainty inherent in the application of No. **22.2** to NGSO satellite systems operating in the FSS frequency bands (V-band) and the absence of coordination conditions applicable to such systems in these bands

*Issue Coordinator: Camilo ZAMORA (CLM), [camilo.zamora@ane.gov.co](mailto:camilo.zamora@ane.gov.co)*



**Complete documents may be  
found at:**

<https://www.citel.oas.org/en/Pages/PCCII/WRC.aspx>



**Thank you very much for your attention**

PCC.II/CITEL Representative

<http://www.citel.oas.org>

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