CEPT ECC
Electronic Communications Committee

STATUS OF CEPT PREPARATION SCIENCE ISSUES (AI 1.12, 1.13, 1.14 9.1 TOPICS A & D)

25 November 2021

CPG Project Team A

PROJECT TEAM A

Stephen TALBOT (G)
VICE-CHAIRMAN

SCIENCE & GENERAL

Jordan Oxley (G)
TECHNICAL SECRETARY

Doriana GUIDUCCI (I)
ECO EXPERT

In general, CEPT supports the ITU-R studies on all WRC-23 agenda items as outlined in relevant Resolutions of WRC-15 and WRC-19

CEPT ECC Electronic Communications Committee

Science Agenda Items

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); "***Radar sounders***"

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 661 (WRC-19); "***SRS 15 GHz***"

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 662 (WRC-19); "***EESS(passive) 250 GHz***"

9.1.a 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; "***Space weather sensors***"

9.1.d Protection of EESS (passive) in the frequency band 36-37 GHz from non-GSO FSS space stations; "***EESS (passive) 37 GHz***"

Acting CEPT Coordinator:
Bruno ESPINOSA (ESA)

WRC-23 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)***

Preliminary CEPT position

To be developed

CEPT Coordinator:
Anton STEPANOV (RUS)

WRC-23 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 **661 (WRC-19)***

Preliminary CEPT position

CEPT is supporting upgrade of space research service (SRS) allocation from secondary to primary while ensuring protection for in-band FS/MS and for radioastronomy service in the adjacent band 15.35-15.4 GHz . Upgrading of the allocation of the frequency band 14.8-15.35 GHz to the SRS should not impose constraints on existing systems of FS and MS in the frequency band 14.8-15.35 GHz.

CEPT Coordinator:
Markus DREIS (D)

WRC-23 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 ***662 (WRC-19)***

Preliminary CEPT position

CEPT supports to cover relevant requirements of passive microwave sensor measurements within the frequency range 231.5-252 GHz with frequency allocations to EESS (passive) without unduly constraining the other primary services currently allocated in this frequency range.

In line with the scientific observation requirements identified so far, CEPT supports the assessment of the frequency bands 239.2-242.2 GHz and 244.2-247.2 GHz for a possible primary allocation to the EESS (passive), including the relevant sharing and compatibility studies with the services to which these and the adjacent bands are already allocated.

CEPT Co-coordinators:
Bharat DUDHIA (G)
Katharina ANDERSEN (D)

CEPT ECC Electronic Communications Committee

WRC-23 Agenda item 9.1, topic a

*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*

Preliminary CEPT position

CEPT supports the following definition for space weather:

space weather: information relating to the characteristics of natural phenomena occurring in space and in high atmosphere that impact Earth's environment and human activities.

CEPT also supports the:

- Identification of priority frequency bands used for providing data critical for space weather forecasting/warnings and that will require protection;
- Recognition in the Radio Regulations of space weather sensors;
- Determination of the appropriate service(s) in line with the space weather definition.

In addition, CEPT supports the further processing of the related work under an agenda item of WRC-27 - see preliminary agenda item 2.6 in Resolution **812 (WRC-19)**.

CEPT Coordinator:
Thibaut CAILLET (F)

WRC-23 Agenda item 9.1, topic d

Protection of EESS (passive) in the frequency band 36-37 GHz from non-GSO FSS space stations

Preliminary CEPT position

CEPT supports the protection of EESS (passive) sensors operating in the frequency band 36-37 GHz from NGSO FSS systems operating in the band 37.5-38 GHz and the determination of relevant conditions that would ensure such protection.

Upcoming Meetings

PTA-4, 29-31 Mar 2022, hybrid

CEPT welcomes the representatives from other regional organisations to the meetings of CPG and its Project Teams