



## Radiocommunication Bureau (BR)

Administrative Circular  
**CACE/809**

10 May 2017

**To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates participating in the work of Radiocommunication Study Group 7 and ITU Academia**

Subject: **Radiocommunication Study Group 7 (Science Services)**

- **Proposed approval of 1 draft new ITU-R Recommendation and 8 draft revised ITU-R Recommendations**

At the meeting of Radiocommunication Study Group 7 held on 4 and 12 April 2017, the Study Group adopted the texts of 1 draft new ITU-R Recommendation and 8 draft revised ITU-R Recommendations and agreed to apply the procedure of Resolution ITU-R 1-7 (see § A2.6.2.3) for approval of Recommendations by consultation. The titles and summaries of the draft Recommendations are given in the Annex to this letter. Any Member State who objects to the approval of a draft Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Having regard to the provisions of § A2.6.2.3 of Resolution ITU-R 1-7, Member States are requested to inform the Secretariat ([brsgd@itu.int](mailto:brsgd@itu.int)) by 10 July 2017, whether they approve or do not approve the proposals above.

After the above-mentioned deadline, the results of this consultation will be announced in an Administrative Circular and the approved Recommendations will be published as soon as practicable (see <http://www.itu.int/pub/R-REC>).

Any ITU member organization aware of a patent held by itself or others which may fully or partly cover elements of the draft Recommendations mentioned in this letter is requested to disclose such information to the Secretariat as soon as possible. The Common Patent Policy for ITU-T/ITU-R/ISO/IEC is available at <http://www.itu.int/en/ITU-T/ipr/Pages/policy.aspx>.



François Rancy  
Director

**Annex:** Titles and summaries of the draft Recommendations

**Documents:** Documents [7/24\(Rev.1\)](#), [7/11\(Rev.1\)](#), [7/17\(Rev.1\)](#), [7/18\(Rev.1\)](#), [7/19\(Rev.1\)](#), [7/25\(Rev.1\)](#), [7/27\(Rev.1\)](#), [7/28\(Rev.1\)](#), [7/23\(Rev.1\)](#).

These documents are available in electronic format at: <https://www.itu.int/md/R15-SG07-C/en>

**Distribution:**

- Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 7
- ITU-R Associates participating in the work of Radiocommunication Study Group 7
- ITU Academia
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

## Annex

### **Titles and summaries of the draft Recommendations adopted by Radiocommunication Study Group 7**

Draft new Recommendation ITU-R RS.[RFI-SENSOR REPORTING]

Doc. [7/24\(Rev.1\)](#)

#### **Detection and resolution of radio frequency interference to Earth exploration-satellite service (passive) sensors**

Administrations operating EESS passive sensors which encounter instances of harmful RFI should use the information in this Recommendation and its RFI reporting form in recording and reporting the RFI instance to the administration with jurisdiction over the transmitting stations which are causing the interference. The RFI reporting form in this Recommendation should be provided in addition to the form in Appendix **10** of the Radio Regulations and is intended for use by administrations to report additional detailed information on interference to EESS passive sensors.

Draft revision to Recommendation ITU-R RS.SA.510-2

Doc. [7/11\(Rev.1\)](#)

#### **Feasibility of frequency sharing between the space research service and other services in bands near 14 and 15 GHz – Potential interference from data relay satellite systems**

Deleted reference to the power flux-density (pfd) limits given in Recommendation ITU-R SF.358 which has been suppressed and also the footnote which states that the Recommendation is to be brought to the attention of SGs 8 and 9, which no longer exist, will now be brought to the attention of SG 5. In addition, *recommends* 1 was made a *recognizing* and references to specific services were replaced with a general reference to “other services”.

Draft revision to Recommendation ITU-R SA.1276-4

Doc. [7/17\(Rev.1\)](#)

#### **Orbital locations of data relay satellites to be protected from the emissions of fixed service systems operating in the band 25.25-27.5 GHz**

Recommendation ITU-R SA.1276-4 has been revised in order to include the geostationary orbital positions 9°E and 20.4°E in *recommends* 1.

Draft revision to Recommendation ITU-R SA.1026-4

Doc. [7/18\(Rev.1\)](#)

**Aggregate interference criteria for space-to-Earth data transmission systems operating in the Earth exploration-satellite and meteorological-satellite services using satellites in low-Earth orbit**

The present revision incorporates new reference systems in the bands 7 750-7 900 MHz, 8 025-8 400 MHz and 25.5-27 GHz and simplifies the current provisions by proposing a single aggregate interference criteria per frequency band.

Draft revision to Recommendation ITU-R SA.1027-4

Doc. [7/19\(Rev.1\)](#)

**Sharing criteria for space-to-Earth data transmission systems in the Earth exploration-satellite and meteorological-satellite services using satellites in low-Earth orbit**

The present revision simplifies the current provisions by proposing a single sharing criteria per frequency band, consistent with the associated revision of Recommendation ITU-R SA.1026.

Draft revision to Recommendation ITU-R SA.1014-2

Doc. [7/25\(Rev.1\)](#)

**Telecommunication requirements for manned and unmanned deep-space research**

The required bit rates for space research service (deep space) are aligned with Rec. ITU-R SA.1015. Uchinoura and Byalalu sites are added to the list of current SRS earth stations. Ranging parameters are deleted from the bit-rate requirements table (Table 1), and they are moved to the navigation and tracking requirements table (Table 2). The description of ranging systems in section 4.5 is revised. Specification of antenna gains in Table 6 is revised for 34 GHz, instead of 100 GHz and 37 GHz.

Draft revision to Recommendation ITU-R SA.1018-0

Doc. [7/27\(Rev.1\)](#)

**Hypothetical reference system for systems comprising data relay satellites in the geostationary orbit and user spacecraft in low Earth-orbits**

This Recommendation was last approved in 1994 and so was due for a revision. A revision to the Recommendation, taking into account the latest developments, is presented. Also an annex was added which describes data relay satellite network/systems.

Draft revision to Recommendation ITU-R SA.1019-0

Doc. [7/28\(Rev.1\)](#)

### **Preferred frequency bands and transmission directions for data relay satellite systems**

The table on data relay satellite frequency bands and directions of transmission is revised to include additional frequency bands. Additionally some clarification in some texts are included.

Draft revision to Recommendation ITU-R TF.538-4

Doc. [7/23\(Rev.1\)](#)

### **Measures for random instabilities in frequency and time (phase)**

This revised version of the recommendation has been updated to reflect changes in timing metrology and analysis since the current version was adopted. It introduces additional methods and definitions to deal with time varying instabilities in the time domain, and extends the computation of time domain instability to a larger fraction of the data length.

---