



Radiocommunication Bureau (BR)

Administrative Circular
CACE/1109

26 June 2024

To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates and ITU Academia participating in the work of Radiocommunication Study Group 3

Subject: **Radiocommunication Study Group 3 (Radiowave Propagation)**

- **Proposed adoption of 3 draft revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § A2.6.2.4 of Resolution ITU-R 1-9 (Procedure for the simultaneous adoption and approval by correspondence)**

At the meeting of Radiocommunication Study Group 3, held on 17 June 2024, the Study Group decided to seek adoption of 3 draft revised ITU-R Recommendations by correspondence (§ A2.6.2 of Resolution ITU-R 1-9) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA, § A2.6.2.4 of Resolution ITU-R 1-9). The titles and summaries of the draft Recommendations are given in the Annex to this letter. Any Member State raising an objection to the adoption of a draft Recommendation is requested to inform the Director and the Chair of the Study Group of the reasons for the objection.

The consideration period shall extend for 2 months ending on 26 August 2024. If within this period no objections are received from Member States, the draft Recommendations shall be considered to be adopted by Study Group 3. Furthermore, since the PSAA procedure has been followed, the draft Recommendations shall also be considered as approved.

After the above-mentioned deadline, the results of the above procedures 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>.

Mario Maniewicz
Director

Annex: Titles and summaries of the draft Recommendations

Documents: Documents 3/5, 3/10(Rev.1) and 3/11

These documents are available in electronic format at: <https://www.itu.int/md/R23-SG03-C/en>

Annex

Titles and summaries of the draft ITU-R Recommendations

Draft revision of Recommendation ITU-R P.372-16

Doc. 3/5

Radio noise

This revision adds two new sections on the calculation of instantaneous and statistical physical brightness temperatures to Recommendation [ITU-R P.372](#). The tables of T_{mr} coefficients needed for these calculations are contained in a text file included in the revision.

This revision replaces the existing section 3.1 in its entirety while retaining section 3.1's title and proposes to add two new sections numbered 3.1.1 and 3.1.2 to "Part 3 Noise from atmospheric gases and Earth's surface".

Draft revision of Recommendation ITU-R P.1511-2

Doc. 3/10(Rev.1)

Topography for Earth-space propagation modelling

This document proposes the following revisions to Recommendation [ITU-R P.1511-2](#):

- Revises the Scope, *considering*, and *recommends* as follows:
 - Editorial clarifications
- Revises section 1 as follows:
 - Editorial clarifications
 - Adds Figure 1
- Revises section 2 as follows:
 - Adds details on the WGS 84 ellipsoid
 - Defines the nomenclature for the semi-axes a and b , and flattening factor $1/f$.
 - Defines the three Earth radius measures and their nomenclature: R_1 , R_2 , and R_3
- Add new section 3 as follows:
 - Calculation of look angles and range between two stations in geodetic coordinates
- Adds:
 - Acronyms/abbreviations
 - Related ITU-R Recommendations
 - List of symbols.

Reference ~~standard~~ atmospheres

This preliminary draft revision of Recommendation [ITU-R P.835-6](#) proposes the following revisions to Recommendation ITU-R P.835-6:

- Revises the title of the Recommendation from “Reference standard atmospheres” to “Reference atmospheres”.
- Revises the Scope, adds Keywords, Acronyms/abbreviations, Related ITU-R Recommendations, and List of symbols.
- Revises the *considering* and *recommends*.
- Annex 1:
 - Revises the title “Mean annual global reference atmosphere” to “ITU-R reference atmosphere”.
 - Revises the height variable so Z is the geometric height, and H is the geopotential height to conform to the U.S. Standard Atmosphere, 1976 notation.
 - Specifies that the pressure is the total (barometric) pressure.
 - Revises the section on water vapour density for clarity.
 - Removes the seasonal reference atmospheres in sections 2, 3, and 4.
- Annex 2:
 - Replaces the existing Annex 2 with the seasonal reference atmospheres from sections 2, 3, and 4 of Annex 1.
 - Corrects the discontinuity in the mid-latitude summer reference atmosphere temperature at 80 km.
- Annex 3:
 - Replaces the existing Annex 3 with ECMWF ERA5 model level data.
 - Describes the binary format of the ERA5 data;

and in addition, renumbers equations, tables, and figures in Annex 1 as I-X, Annex 2 as II-X, and Annex 3 as III-X so subsequent revisions to Annex 1 do not require renumbering equations, tables, and figures, and renumbers equations, tables, and figures in Annexes 2 and 3 in a similar manner.
