



Radiocommunication Bureau (BR)

Revision 1 to
Administrative Circular
CACE/1045

19 December 2022

**To Administrations of Member States of the ITU, Radiocommunication Sector Members,
ITU-R Associates participating in the work of Radiocommunication Study Group 5
and ITU Academia**

Subject: **Radiocommunication Study Group 5 (Terrestrial Services)**

- **Proposed adoption of 6 draft revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § A2.6.2.4 of Resolution ITU-R 1-8 (Procedure for the simultaneous adoption and approval by correspondence)**
- **Proposed suppression of 1 ITU-R Recommendation**

At the meeting of Radiocommunication Study Group 5, held on 28 November 2022, the Study Group decided to seek adoption of 6 draft revised ITU-R Recommendations by correspondence (§ A2.6.2 of Resolution ITU-R 1-8) and further decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA, § A2.6.2.4 of Resolution ITU-R 1-8). The titles and summaries of the draft Recommendations are given in Annex 1. Any Member State raising an objection to the adoption of a draft Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

The consideration period shall extend for 2 months ending on 14 February 2023. If within this period no objections are received from Member States, the draft Recommendations shall be considered to be adopted by Study Group 5. Furthermore, since the PSAA procedure has been followed, the draft Recommendations shall also be considered as approved.

In addition, the Study Group proposed the suppression of 1 Recommendation listed in Annex 2. Any Member State who objects to the suppression of a Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

The consideration period shall extend for 2 months ending on 14 February 2023. If within this period no objections to the proposed suppression are received from Member States, the Recommendation shall be considered to be suppressed.

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 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 www.itu.int/en/ITU-T/ipr/Pages/policy.aspx.

Mario Maniewicz
Director

Annex 1: Titles and summaries of the draft Recommendations

Annex 2: Recommendation proposed for suppression

Documents: Documents 5/98(Rev.1), 5/101(Rev.1), 5/104(Rev.1), 5/107, 5/108(Rev.1) and 5/109(Rev.1)

These documents are available in electronic format at: www.itu.int/md/R19-SG05-C/en

Annex 1

Titles and summaries of the draft ITU-R Recommendations

Draft revision of Recommendation ITU-R M.1849-2

Doc. 5/98(Rev.1)

Technical and operational aspects of ground-based meteorological radars

The revisions applied to this Recommendation are the following:

- 1 update information contained in Annex 1;
- 2 update of technical characteristics of Radar 1 in Table 6 of Annex 2;
- 3 update of technical characteristics of Radar 14 in Table 7 of Annex 2;
- 4 addition of a new set of characteristics in Table 7 of Annex 2.

Draft revision of Recommendation ITU-R M.1732-2

Doc. 5/101(Rev.1)

Characteristics of systems operating in the amateur and amateur-satellite services for use in sharing studies

The proposed revisions to this Recommendation include changes to text in several places to clarify meaning. An *I/N* ratio for sharing and compatibility studies with other radiocommunication services is introduced. The characteristics are given as parameters in a number of tables with corresponding footnotes and some of these parameters have been revised to reflect changes in amateur service applications.

Draft revision of Recommendation ITU-R M.2010-1

Doc. 5/104(Rev.1)

Characteristics of a digital system, referred to as navigational data for broadcasting maritime safety and security related information from shore-to-ship in the 500 kHz band

The proposed modifications of this Recommendation include:

- 1 Update and complement the technical characteristics of the NAVDAT system in 500 kHz in the following points.
- 2 Modify *Abbreviations/Glossary* and *Related ITU Recommendations and Reports*.
- 3 In Annex 3, add new Table 1 for all bandwidths, modified Pilot sequence (section A3-1.6), section A3-4 new text for ship receiver. Table 5 (section A3-3), reception antenna (section A3-4.1.1), demodulator (section A3-4.1.3) and Table 6 of (section A3-5). Clarification on sequence for receiving scanning facility (section A3-1.9).

- 4 In Annex 4, modified structure (section A4-4.1), position of MIS and TIS carriers (section A4-4.3) new table for 1 kHz BW in mode B encoding (section A4-5.2) and LDPC check matrix (section A4-6) in order to reduce the bit error rate (BER) of MIS and TIS the coding is changed. New LDPC figure.
- 5 Modified Annex 5 as an example. Add Table 21 for the structure of the message head.
- 6 Added Annex 7 with the list of subject messages.
- 7 Real and test bench experiments, as well as the preparation of manuals for the IMO, have led to some modifications and improvements in the parameters of the NAVDAT system.
- 8 The operation of the ship receiver and the method for identifying NAVDAT coast station has also been reviewed.
- 9 Added Annex 8 to determine minimum antenna tower height for NAVDAT shore infrastructure.
- 10 Added *recommends* 7 to support new added Annex 8.
- 11 The title was adjusted to better reflect the nature of this Recommendation. (Note: Same adjustment will be done for revision of Recommendation ITU-R M.2058-0.)

Draft revision of Recommendation ITU-R M.2135-0

Doc. 5/107

Technical and operational characteristics of autonomous maritime radio devices operating in the frequency band 156-162.05 MHz

In this revision, a new Annex 2 has been added to describe the technical and operational characteristics of the man overboard (MOB) Class M devices. The new Annex 2 also includes Mobile Aid to Navigation (MAtoN). Additional details have been added to Annex 3 for describing the technical and operational characteristics of the AMRD Group B devices utilizing AIS technology. Clarifications have been added to Annex 4 for the AMRD Group B devices not utilizing AIS technology. A new Annex 5 has been added to detail the messages transmitted by AMRD Group B devices that utilize AIS technology. Due to the inclusion of more operational characteristics, the title has been adjusted.

Characteristics of a digital system, referred to as navigational data for broadcasting maritime safety and security related information from shore-to-ship in the maritime HF frequency band

The proposed modifications of this Recommendation update and complement the technical characteristic of the NAVDAT system in the HF bands.

Real and test bench experiments as well as the preparation of the NAVDAT manual for IMO have led to some modifications and improvements in the parameters of the NAVDAT system and to align with the last revision of Recommendation ITU-R M.2010 (NAVDAT in the MF band), including the adjustment of the title.

The operation of the ship receiver has been reviewed together with the method for identifying NAVDAT coast stations.

Annexes 1, 2 and 3 are modified. Clarification on sequence for receiving scanning facility (section 1.9).

An Annex 4, *Transmitting structure*, is added. Low-density Parity Check (LDPC) code is used.

An Annex 5, *Message files structure*, is added.

Annex 6 replaces the old Annex 4 for single frequency network (SFN).

Annex 7 replaces the old Annex 5 for frequencies.

An Annex 8 with the list of subject messages is added.

Radio-frequency arrangements for systems in the fixed service operating in the band 31.8-33.4 GHz

The revision to this Recommendation adds the additional channel bandwidth of 224 MHz to the existing channel bandwidth series of 3.5, 7, 14, 28, 56 and 112 MHz in Annex 1 in the 32 GHz band. The scope has been modified accordingly.

Annex 2

ITU-R Recommendation proposed for suppression

(Source: Document [5/105](#))

Recommendation ITU-R	Title
M.1307	Automatic determination of location and guidance in the land mobile services
