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# INTERNATIONAL 30.12.2021

# *ITU*

# Report on ITU-R WP5B meeting 29th November to 12st December 2021

Note by the IALA representative Stefan Bober

#### INTRODUCTION

ITU-R Working Party 5B (WP 5B) - Maritime mobile service including Global Maritime Distress and Safety System (GMDSS); aeronautical mobile service and radiodetermination service - held its meeting from 29th November to 12st December 2021. This was the fourth meeting in the study cycle 2019 to 2023. The meeting was held as a web meeting due to the COVID 19 pandemic. Mr. Stefan Bober represented IALA.

IALA has a specific interest in Maritime mobile service including Global Maritime Distress and Safety System (GMDSS) and radiodetermination service, with particular emphasis on the development of VHF Data Exchange System (VDES), Automatic Identification System (AIS), Autonomous Maritime Radio Devices (AMRD) and e-Navigation.

#### issues related to IALA work addressed during ITU-R WP 5B

##### Revision of Recommendation ITU-R M.2092-0 (VHF Data Exchange System - VDES)

WG5B finalised the work on revision of Recommendation ITU-R M.2092-0 and sent the document for final approval to ITU-R Study Group 5.

The revision of the Recommendation is consequential to decisions made by the WRC-19 which modified Appendix 18 of the Radio Regulations to describe the uses of the channels for the various functions of the VHF data exchange system (VDES), and result of testing carried out since the publication of the current Recommendation.

The concept of VDES described in the current Recommendation remains, but the details of its implementation are revised. As a result of the changes, the structure of the annexes of the Recommendation have changed.

On December 16, ITU-R SG 5 agreed to the draft revision of Recommendation ITU-R M.2092-0 and initiated the procedure for simultaneous adoption and approval by correspondence among ITU Member States.

Recommendation ITU-R M.2092-1 will be officially published in the first quarter of 2022.

* **IALA may revise G1139 according to the development at ITU WP5B as appropriate.**

##### Revision of Recommendation ITU-R M.1371-5 (Automatic Identification System - AIS)

WP 5B continued working on the revision of Recommendation ITU-R M.1371-5. The group reviewed Input from China.

However a reply liaison note from IMO is still outstanding and is expected for next ITU-R WP 5B meeting in July 2022. An additional liaison note to IMO with specific questions from ITU WP 5B was drafted, in copy to IALA and CIRM. To support IMO on that work IALA and CIRM sent already a liaison note to IMO prior to the IMO/ITU Expert group meeting last November 2021.

Due to the special situation during COVID pandemic, where all international organisation lacking time during their reduced web meetings, the revision of Recommendation ITU-R M.1371-5 is not expected before 2023.

* **IALA is invited to monitor the expected reply liaison note from IMO on revision of Recommendation ITU-R M.1371-5 and provide additional input to ITU WP5B as appropriate.**

##### WRC-23 agenda item 1.11 (Modernisation of the GMDSS and implementation of e-navigation)

WRC-23 agenda item 1.11 is to consider possible regulatory actions to support the modernisation of the Global Maritime Distress and Safety System and the implementation of e-navigation in accordance with Resolution 361 (Rev.WRC-19).

The WG 5B continued to progress the work, updated the draft CPM Text and the work plan.

Following aspects to solve Resolution 361 (Rev.WRC-19) have been discussed:

Issue A: Proposal for Global maritime distress and safety system (GMDSS) modernization;

Removal of narrow band direct printing (NBDP) from the global maritime distress and safety system and introduction of automatic connection system (ACS) for MF and selected HF bands; Introduction of the NAVDAT.

Automatic identification system search and rescue transmitter (AIS SART) as homing equipment for survival craft station

1.6 GHz Emergency position indicating radio beacons (EPIRB). The band would be available for use for the GMDSS and for general maritime radiocommunications , e.g. provide additional capacity in the Earth-to-space direction for communications by ships.

Issue B: Proposal for E-Navigation

Previous WRCs have identified the frequency bands to be utilized for the VDES and the NAVDAT. These two systems can both support e-navigation.

Satellite networks which would support the e-navigation have already their allocation identified in the Radio Regulation.

E-navigation is not part of the GMDSS.

Issue C: Introduction of additional satellite systems into the global maritime distress and safety system

Studies on the quantity of spectrum necessary for a geostationary-satellite system to provide GMDSS functionalities are ongoing.

IMO is evaluating an application from a geostationary-satellite system to become a new GMDSS satellite provider.

##### Revision of Recommendation ITU-R M.585-8 (Maritime identities)

WG5B finalised the work on revision of Recommendation ITU-R M.585-8 and sent the document for final approval to ITU-R Study Group 5.

Revision of Recommendation ITU-R M.585 provides a numbering scheme for autonomous maritime radio devices (AMRD): 979YYYYYY, clarifications on the use of manufacturer IDs for devices using a freeform number identity and some editorial updates, e.g. the suggested use of 00MID5XXX for AIS base stations (VDL controlling stations).

On December 16, ITU-R SG 5 agreed to the draft revision of Recommendation ITU-R M.585-8 and initiated the procedure for simultaneous adoption and approval by correspondence among ITU Member States.

Recommendation ITU-R M.585-9 will be officially published in the first quarter of 2022.

##### Revision of Recommendation ITU-R M.2135-0 (Autonomous Maritime Radio Device - AMRD)

The WG 5B continued to progress the work on the revision of Recommendation ITU-R M.2135. Technical and operational characteristics of selected AMRD Group A, i.e. Man overboard devices using VHF digital selective calling (Class M) combined with automatic identification system technology as well as Technical and operational characteristics of AMRD Group B are now further detailed in the working document.

##### Revision of Recommendation ITU-R M.2058-0 (NAVDAT HF) and ITU-R M.2010-1 (NAVDAT system in 500 kHz)

WP5B continued work on the revision of Recommendation M.2058-0 "Characteristics of a digital system, named Navigational Data for broadcasting maritime safety and security related information from shore-to-ship in the maritime HF frequency band" and Recommendation M.2010-0 "Characteristics of a digital system, named Navigational Data for broadcasting maritime safety and security related information from shore-to-ship in the 500 kHz band”.

These revisions update and complement the technical characteristic of the NAVDAT system in HF and in 500 kHz.

##### Revision of Recommendation ITU-R M.493-15 and ITU-R M.541-10 (Digital selective-calling DSC)

WP5B continued work on the documents. The proposed modifications of this Recommendations update and complement the technical characteristic of DSC for introduction of automatic connection system (ACS). Deletion of references to VHF DSC EPIRB as this item is deleted from SOLAS IV and references to narrow band direct printing for MF and HF for distress alerting, distress-relay, urgency and safety calls and the related acknowledgements.

##### Draft new report on the electromagnetic interference (EMI) from LED and other sources

WP 5B continued work on a new report on Conditions for the protection of radio receivers installed on-board vessels against electromagnetic interference from LED lighting systems and other unintended sources. The purpose of this report is to identify and describe the problem of EMI emanating from LED lighting systems on marine vessels and the effects of EMI on maritime safety-related systems and to develop new technical guidance and installation guidelines for mariners to minimize degradation from EMI to sensitive radio communications and radio navigation equipment on their vessels.

#### RELATED DOCUMENTS

* ITU-R WP5B Liaison statement to IMO on revision of Rec. ITU-R M.1371-5 (copy to IALA, CIRM)
* Draft Revision of Recommendation ITU-R M.2092-0
* Draft Revision of Recommendation ITU-R M.585-8
* Preliminary draft revision of Recommendation ITU-R M.1371-5

#### IALA IS REQUESTED TO

* **IALA is requested to note the report on ITU-R WP5B meeting and act accordingly.**