

IALA COUNCIL 69th session



**18-21 June 2019
Rotterdam
The Netherlands**

13 – INTERNATIONAL

13.2 – ITU

13.2.1 – ITU-R WP5B

Report by IALA representative Stefan Bober

1. 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 April to 10th May 2019. This was the last meeting in the study cycle 2015 to 2019. IALA was represented by Mr. Stefan Bober.

IALA had 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 VDES, VDE-SAT, AIS and autonomous radio devices (AMRD) operating in the maritime VHF mobile band.

IALA had submitted following documents to ITU-R Working Party 5B (WP 5B):

- Liaison Note regarding agenda item 1.9.1 WRC-19 (AMRD).
- Liaison Note on Revision of Recommendation ITU-R M.1371-5

2. ISSUES RELATED TO IALA WORK ADDRESSED DURING ITU-R WP 5B

2.1. VDE Satellite as component of VDES (agenda item 1.9.2 (WRC-19))

There were no further actions on VDES as the proposed methods for the solution of agenda item 1.9.2 (WRC-19) are described in the Conference Preparatory Meeting report (CPM Report) was finished during the CPM in March 2019. The Report ITU-R M.2435-0 "Technical studies on the satellite component of the VHF data exchange system", on which IALA has worked on and contributed a lot, was published last November.

IALA may consider selecting one method on the proposed solutions on VDE SAT in the CPM Report and recommending this in the communication with its members in preparation for WRC-19.

2.2. Autonomous maritime radio devices (AMRD) (agenda item 1.9.1 (WRC-19))

WP 5B continued the work towards a Preliminary New Draft Recommendation ITU-R M.[AMRD] defining autonomous maritime radio devices (AMRD) and their technical and operational characteristics. However due to procedural reasons it was only possible to upgrade the document to the status of a Draft New Recommendation. The Recommendation can only be published after the next WP 5B meeting in May 2020.

AMRD Group A consists of Mobile Aids to Navigation (MAtoN) and Man Over Board-AIS Class M (MOB). Their technical and operational characteristics are described in the most recent version of Recommendations ITU-R M.1371 and ITU-R M.493.

Mobile AtoN and MOB should use the numbering scheme already defined in ITU-R M.585-7 "Identities in the maritime mobile service", i.e. for MAtoN it is 99MIDXXXX.



All other AMRD, that do not enhance the safety of navigation, are categorised as AMRD Group B. The characteristics of AMRD Group B were further developed and contained in two annexes, one for devices using AIS technology and the other for devices using other technologies.

AMRD Group B numbering scheme is still under consideration. The identity 979YYYYYY (not including the manufacturer ID) is proposed for the revised ITU-R M.585-7. However further work is needed and will be carried forward to the next WP 5B meeting.

A liaison statement to IALA, IMO and CIRM was drafted on the revision of ITU-R M.585-7 regarding the proposed numbering scheme for AMDR Group B based on AIS technology.

IALA is invited to contribute to the work on AMRD at ITU WP 5B.

2.3. Revision of Recommendation ITU-R M.1371-5

WP 5B continued working towards the revision of ITU-R M.1371-5 and considered input from IALA, IMO, CIRM and other member states. The revision could not be finalised and will be carried on at the next meeting.

IALA highlighted in its liaison statement to ITU WP 5B on the revision of Rec ITU-R M.1371-5 that further contributions on the revision of Message 21 "Aids to Navigation report" as well as on the new Message 28 "Identification and position report for autonomous maritime radio devices" and Message 29 "Electronic Aid to Navigation (eAtoN) Report" will be delivered for the next ITU WP 5B meeting. Furthermore, a new message 30 was added to provide information about the number of persons on board a vessel.

IALA is invited to further contribute to the work on the revision of Recommendation ITU-R M.1371-5, especially on Messages 21, 28 and 29.

2.4. Support modernisation of GMDSS – NAVDAT (agenda item 1.8 (WRC-19))

WP 5B started working 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". This revision updates and complements the technical characteristic of the NAVDAT system in HF. The revision could not be finalised and will be carried on at the next meeting.

IALA may observe this development and inform their membership accordingly as appropriate.

2.5. Maritime Radio Communications Plan (MRCP)

IALA had sent a Liaison Note regarding "IALA Maritime Radio Communications Plan (MRCP)" to the ITU WP 5B meeting in November 2018.

Based on that input ITU WP 5B started working towards a draft new Report ITU-R [MAR-RADIO] "An overview of systems in the maritime mobile radiocommunication service and their mode of operation". The work could not be finalised and will be carried on at the next meeting.

IALA is invited to further contribute to the work especially in the light of the results of WRC-19 which should be reflected in an updated document of IALA's MRCP.

2.6. LED Lights

The interference generated by LED lighting systems represents a possible hazard to navigation and search and rescue, particularly when LED lighting systems are placed in the near vicinity of communications and navigation antennas. This problem has been reported to pose a major widespread marine safety hazard in terms of the GMDSS and safety of navigation because it essentially blinds the receivers in the AIS and the marine radios used for GMDSS.

Other equipment uses power supplies similar in technique to those used in LED lighting systems which may cause the same problems. WP 5B noted that currently no electromagnetic interference (EMI) standard could address this problem.



WP 5B understands that ITU-R WP 1A is already working with International Special Committee on Radio Interference (CISPR) regarding the assessment of the impact of unwanted radio frequency energy generated by non-radiocommunication equipment to radiocommunication service, and would like to work with WP 1A and CISPR to develop suitable standards that protect maritime use.

IALA may observe this development and inform their membership accordingly as appropriate.

3. RELATED DOCUMENTS

- Liaison to IALA on the revision of Rec. ITU-R M.585-7 regarding AMRD Group B numbering scheme
- WD Preliminary draft new Rec. ITU-R M.[AMRD] and WD Preliminary draft revision of Recommendation ITU-R M.585-7.
- WD Preliminary draft revision of Recommendation ITU-R M.1371-5

4. THE COUNCIL IS REQUESTED TO

Note the report on ITU-R WP5B and the liaison statement from ITU WP5B to IALA.