



IALA COUNCIL

76th session



12-16 December 2022
Rio de Janeiro
Brazil

10 – TECHNICAL ACTIVITIES

10.3 – ARM

10.3.1.– ARM 16 summary report

Note by the Secretariat

1. INTRODUCTION

The 16th Session of the ARM Committee was held from 24 October to 4 November 2022 with Phil Day as Chair and Dave Lewald as Vice-Chair. The Secretary for the meeting was Thomas Southall. 91 Participants from 27 countries participated in ARM16. 33 participants attended for the first time.

The Committee finalised the work for the 2018 - 2023 work period, and developed a new work programme for 2023-2027. Working in three working groups, the Committee considered 60 input papers and produced 25 output documents.

The overall status of the committee has been annexed to this document.

2. OUTPUTS

Two draft Recommendations have been finalised for the Council approval and note.

- C76-10.3.2 (ARM15-11.2.1.1) Revised Recommendation R1001 Ed2.0 The IALA Maritime Buoyage System
- C76-10.3.3 (ARM16-11.3.2) New draft recommendation on cyber security for the IALA domain

Five draft Guidelines have been finalised for the Council approval.

- C76-10.3.4 (ARM16-11.3.1) Revised G1105 Ed 2.0 shore-side portrayal ensuring harmonization with e-Navigation related information
- C76-10.3.5 (ARM16-11.3.11) Revised G1159 Ed 2.0 ship reporting from shore based perspective
- C76-10.3.6 (ARM16-11.4.1) Revised G1138 Ed 2.0 the use of the simplified IALA risk assessment method (SIRA)
- C76-10.3.7 (ARM16-11.2.1) New draft guideline on the marking of bridges and other structures over navigable waters
- C76-10.3.8 (ARM16-11.2.2) New draft guideline on guidance on marine aids to navigation (AtoN) awareness and training for mariners

One workshop proposal has been finalized for the Council approval.

- C76-10.3.9 (ARM16-11.3.9) Workshop proposal on the second joint IHO /IALA workshop on S-100/200



3. IALA PAPER SUBMISSION TO OTHER ORGANISATIONS

The following liaison note was prepared for the Council approval:

- C76-12.6.1 (ARM16-11.3.6) Liaison note to IHO NIPWG on S-125 and its associated document
- C76-12.2.5 (ARM16-11.4.2) Liaison note to IMO Input for a circular letter on tools to aid risk assessment

4. THE COUNCIL IS REQUESTED TO

NOTE the information provided in this document.


Annex - Overall status of the ARM Committee 2018-2022 Work Programme after ARM16:

Task		Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
WG#1 – Navigational Requirements								
1.1.1	Develop guidance on regulatory/legal framework for Aton Authorities							Task deleted following LAP advice
1.1.2	Revise G1054 Preparing for a Voluntary IMO Audit on Aids to Navigation Service Delivery (Nov 2006)	10	13	14				Complete at ARM14
1.4.1	Revised Guideline G1052 Quality Management in [Marine] Aids to Navigation Service Delivery (Dec 2013), removing ISO copied text.	10	12					To be completed at ARM17
1.5.1	Reformat and review the IALA MBS incorporating MAtoN. Needs General Assembly approval.	8	12	14				Complete at ARM15
1.5.2	Assist ENAV with development of radio aspects of MAtoN and AMRD with IEC and ITU	8	11	12				Complete
1.5.3	Undertake gap analysis of IALA guidance associated with the MBS, including 1078 The Use of AtoN in the Design of Fairways (June 2011), identify further work to add to the task plan at ARM8. Includes SIGNI buoyage and submerged breakwaters.	8	12	14				Complete at ARM14
1.5.4	Develop guidance for navigators on the use of AtoN	13	14					Completed at ARM16
1.5.5	Review G1096 Anticipated User e-Navigation Requirements from Berth to Berth, for AtoN Authorities (May 2013)	10	11					Deleted
1.5.6	Develop guidance on AtoN provision in polar regions (winter conditions; possibly complete following liaison with ENG)							Complete
1.5.7	Develop guidance on the provision of AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)	14	16					Ongoing
1.5.8	Review and update Recommendation R-0139 on the Marking of Man-Made Offshore Structures to reflect trends in the proliferation of wind farms and other offshore platforms.	10	12	14				Complete at ARM14
1.5.9	Identify options for the future use of DGNSS stations in conjunction with ENG review of Recommendation R0150.	10	12					ENG Completed
1.5.10	Develop Guideline on the Use of MAtoN	8	10					Complete at ARM12, update of A-126 complete at ARM14
1.6.1	Review R0143 Provision of virtual aids to navigation and G1081 Virtual AtoN to reflect developments	8	11	13				Completed at ARM13
2.1.1	In association with ENG review G1116 Selection of Rhythmic Characters and Synchronisation of Lights for [Marine] Aids to Navigation (Dec 2015)							Complete
5.3.1	Develop guidance on the symbology and portrayal of AtoN for charting	9	14					Complete
3.2.1	Review relevant sections of NAVGUIDE as requested by Secretariat	8	14					Ongoing
	Review IALA AtoN questionnaire							Complete
WG#2 – Information Services and Portrayal								



Task		Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
2.2.1	Review G1084 Procedure of the Authorization of AIS AtoN	10	11					Incorporated in review of AIS documentation
2.2.2	Provide guidance on the management of requirements and requirements traceability							Completed at ARM9
4.1.1	Review G1050 Management and Monitoring of AIS Information (Dec 2005)	9	11					Incorporated in review of AIS documentation
4.2.1	Maritime Connectivity, Define User Requirements for Maritime Connectivity, Define User Requirements for the Maritime Internet of Things (Define Requirements for MRN Addressing) and Contribute to IALA submission to IMO	9	14					Ongoing
5.1.1	Develop guidance on Maritime Services including the production of an 'e-Navigation Operational Service Description'	9	14					Completed at ARM12
5.1.2	New Guideline on Operational considerations for S-200 (S-201 AtoN information and S-230 Application Specific Messages)	9	11					Ongoing
5.1.3	Continue to Develop Product Specification S-201 in the Task Group already assigned							
5.1.4	Develop Annex C to S-201	9	11					Ongoing
5.1.5	Develop Requirements for S-125	8	14					Ongoing
5.1.6	Coordination with IHO/WMO for S-100, S-200, and MRN management (S-100/S-200 message coordination with other Committees on S-2xx development)	8	14					Ongoing
5.1.7	Develop guidance on MRN for users	8	14					Complete at ARM13
5.1.8	Develop MRN Registry Submission & Maintenance Guideline for IALA Secretariat	8	14					Completed at ARM14
5.1.9	Develop Recommendation to cover MRN Guidelines	9	10					
5.1.10	Coordinate Committee support for IALA representation at IHO working groups in cooperation with Secretariat (HSSC, S-100WG, NIPWG)	8	14					Ongoing
5.1.11	Monitor the development of S-201 Testbed	8	14					Ongoing
5.2.1	Review G1105 shore side portrayal ensuring harmonisation with e-Navigation related information	9	14					Complete at ARM17
5.2.2	Develop Guideline on ship reporting from the shore-side perspective							Completed at ARM13
5.3.1	Develop guidance on the symbology and portrayal of AtoN for charting	9	14					Ongoing (with 5.2.1)
6.2.1	Joint IMO IHO IALA Workshop regarding the management of S-100 PS	9						Complete
6.2.2	Participate in ARM led joint workshop on cyber security	8	14					Complete
WG#3 – Risk Management								
1.2.1	Review G1018 Risk Management to ensure compatibility with risk toolbox. Includes full review of underlying Risk Toolbox documentation G1123, G1124, G1138	8	13					Completed at ARM15
1.2.2	Review R0142 Maritime Data Sharing IALA Net to reflect new title "Maritime data sharing" and the storage and use of historical [AIS and other] data for risk analysis. New Guideline incorporating a Conceptual framework for data sharing, capture and analysis	10	14					Delayed due to developments in IALANET



Task		Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
1.2.3	Review G1086 Global Sharing of Maritime Data (June 2012) in collaboration with task 1.2.2 (R0142 review)	9	14					Delayed due to developments in IALANET
1.2.4	In cooperation with ENG (task 1.2.1) revise R0138 and G1058 and G1097 on simulation use by AtoN authorities	8	12					
1.2.5	Develop Recommendation for marine data sharing for risk assessment analysis or incorporate with R0142 task 1.2.2							Task merged with 1.2.2
1.2.7	Develop document to promulgate IALA risk management toolbox to IMO (SN circular)	13						Complete at ARM16
3.1.1	Review G1020 Training Related to [Marine] Aids to Navigation (Dec 2005)	8	14					Complete
6.1.1	Cooperate with WWA in providing Risk Seminar(s)	8	14					Ongoing

Legend:

Green – progress as planned

Yellow – task needs more time, target time prolonged

Red – task delayed due to external issue

Grey - task completed / deleted

Blank – task not started