



Report of the 3rd Session of the IALA AtoN Requirements and Management (ARM) Committee

23 to 27 November 2015

Executive Summary

38 Members from 23 countries, one sister organisation (SG IMPA) and two IALA observers participated in ARM3; 7 participants for the first time;

This was the third meeting for the 2014-18 Work Programme and the ARM Committee considered 34 input papers and produced 5 output papers of two Working Groups;

The committee considered a number of key issues and made significant progress on three new recommendations/guidelines.

Particular matters to highlight are:

- Following significant changes in secretariat capacity and an evolving plan with regard to document restructuring substantial change to the work plan has been made which removes the coordination role of ARM in this matter and the drafting of particular standards.
- The committee considered the documents currently identified as ARM owned and mapped them against the 7 proposed standards. Significant rewriting is required to make them fit for the new structure. The secretariat has offered assistance of a technical writer and this is felt to be essential to achieve a timely changeover. An early introduction of this support is recommended. The committee will continue to prepare documents for this transfer.
- The Norwegian Coastal Administration highlighted concerns regarding the portrayal of sector lights on ECDIS. Considering the input the committee agreed with the concerns raised and has asked the ENAV S-101 – S-201 coordinator to liaise with IHO to ensure aspects of portrayal of Aton in S57 that are of concern are not carried over to the new standard. The DSG is also to write to IHO on this matter. ARM will continue to monitor portrayal and raise any other concerns identified.

Key outputs included:

- Preparation of a liaison note to all Committees on the use of pictograms on AtoN.
- Preparation of a liaison note to ENAV on the portrayal of sector lights.
- Preparation of answer by e-mail correspondence on the use of advertising on AtoN's to the Swedish Transport Agency.

E-mail correspondence to other Committees by "IALA Chair to Chair notes" including:

- Comment on the new draft Guideline on Selection of Rhythmic Characters for Aids to Navigation;
- Update of the NAVGUIDE;
- Comments on the draft Guideline on user requirements for VDES.

The ARM Committee members made a significant contribution to the IALA wiki during ARM3.

Overall status of the ARM Committee 2014-2018 Work Programme:

Task		Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
					Green	Yellow	Red	
TD#1 – Requirements for AtoN systems								
1.1.1	Develop a standard for the provision of AtoN Contribute to standards generated by Secretariat	4	7		☒	☐	☐	
1.1.2	Workshop on AIS AtoN (real and virtual)	2	4		☒	☐	☐	Initiated ARM2
1.1.3	Recommendation Guideline on the marking of wrecks as defined by the Nairobi Wreck Convention	4	5	7	☒	☐	☐	
1.1.4	Recommendation Guideline on the use of pictograms on AtoN	3	5		☒	☐	☐	Commenced ARM3
1.1.5	Guideline on the use of pictograms on AtoN	3	5		☐	☐	☒	Task merged with 1.1.4 ARM3
1.1.6	Guideline on the use of mobile AtoN	4	7		☒	☐	☐	
1.2.1	Populate S-100 as requested by ENAV Committee	1	7		☒	☐	☐	Commenced ARM1
TD#2 – Management for AtoN services								
2.1.1	Develop guidance for AtoN authorities on disaster recovery	1	4		☒	☐	☐	Commenced ARM1
2.1.2	Develop a standard for the management of AtoN Contribute to standards generated by Secretariat	4	7		☒	☐	☐	
2.1.3	Consider guidance for authorities on the use of enavigation services	4	7		☒	☐	☐	
2.5.1	Develop guidance on the management of AtoN in environmentally protected areas	2	7		☒	☐	☐	Commenced ARM2
TD#3 – Marine Spatial Planning								
3.1.1	Develop guidance for AtoN authorities on the use of Marine Spatial Planning	1	4		☒	☐	☐	Commenced ARM1
TD#4 – International coordination and liaison								
4.1.1	Develop and maintain control sheet on committee external liaison	4	7		☐	☐	☒	Task cancelled ARM3
4.2.1	Develop IALA committee guidance to support the new document structure implementation	4	7		☐	☐	☒	Task cancelled ARM3
4.2.2	Coordinate a limited review of the IALA Navguide to incorporate amended guidelines and recommendations and other necessary updates via wiki	1	7		☒	☐	☐	Commenced ARM1
4.2.3	Liaise with committees regarding applying the new IALA document structure	4	7		☐	☐	☒	Task cancelled ARM3
4.2.4	Revise ARM documents once wiki populated	4	7		☐	☐	☒	Task cancelled ARM3
4.2.5	Amend IALA dictionary as appropriate including harmonisation of definition of AtoN	1	7		☒	☐	☐	Commenced ARM1
4.2.6	Map existing ARM documentation to standards generated by Secretariat	3	7		☒	☐	☐	New task ARM3 Commenced ARM3
4.2.7	Rewrite ARM documentation to meet new document structure in conjunction with IALA assistance	3	7		☒	☐	☐	New task ARM3 Commenced ARM3

All Members are kindly requested to send photographs for inclusion in the 2018 edition of the IALA NAVGUIDE.

Table of Contents

1	Introduction	5
1.1	Administrative announcements	6
1.2	Approval of the agenda	6
1.3	Introductions and apologies	6
1.4	Programme for the week	6
2	Review of Action Items from ARM2	6
2.1	Action Items – IALA Secretariat	6
2.2	Action Items – ARM Committee Members	6
3	Review of input papers	6
4	Reports from other bodies	7
4.1	IALA Council	7
4.2	IALA Policy Advisory Panel	7
4.3	ACCSEAS	7
4.4	IMO	7
5	Reports from Rapporteurs	7
5.1	Marine Spatial Planning	7
5.2	e-Navigation - shore side	7
5.3	e-Navigation – shipborne side	7
5.4	IALA Bulletin	8
6	Presentations	8
6.1	IALA World-Wide Academy (WWA)	8
6.2	Development of marine aids to navigation simulator	8
6.3	IALA Dictionary	8
6.4	Update IALA activities	8
6.5	Introduction of Egyptian Authority for Maritime Safety	8
6.6	IALA Risk Management Tool Box	9
7	Establish Working Groups	9
8	Working Group 1 – Navigational Requirements (WG1)	9
8.1	Contribute to develop a standard for the provision of AtoN (Task 1.1.1.)	9
8.2	Develop guidance for AtoN authorities on Disaster Recovery (Task 2.1.1.)	9
8.3	Develop guidance for AtoN authorities on the use of Marine Spatial Planning (Task 3.1.1.)	9
8.4	Develop guidance on the Marking of Wrecks as defined by the Nairobi Wreck Convention (Task 1.1.3)	10
8.5	Input Papers reviewed by Working Group No. 1	10
9	Working Group 2 – Continuous Improvement (WG2)	10
9.1	Develop guidance on the management of AtoN in environmentally protected areas (Task 2.5.1)	10

9.2	Provide guidance on how to support the new document structure implementation (Task 4.2.6)	11
9.3	Coordinate a limited review of the IALA NAVGUIDE to incorporate amended Recommendations and Guidelines and other necessary update via IALA Wiki (Task 4.2.2)	11
9.4	Amend IALA Dictionary as appropriate including harmonisation of definition of AtoN (Task 4.2.5)	12
9.5	Develop Guideline Use of pictograms on AtoN (Task 1.1.4)	12
9.6	Input Papers reviewed by Working Group 2	12
10	Review of Current Work Programme (2014 – 2018)	13
11	Review of output and working papers	15
12	Any Other Business	15
12.1	PIANC meeting	15
12.2	IMPA liaison	15
13	Review of session report	15
14	Date and venue of next meeting	15
15	Closing of the Meeting	15
16	List of Annexes	16
ANNEX A	ARM3 Committee Agenda	17
ANNEX B	ARM2 Participants	19
ANNEX C	Working Group Participants	25
ANNEX D	List of input papers	27
ANNEX E	List of Output Documents, e-mails and Working Papers	29
ANNEX F	Action Items	30



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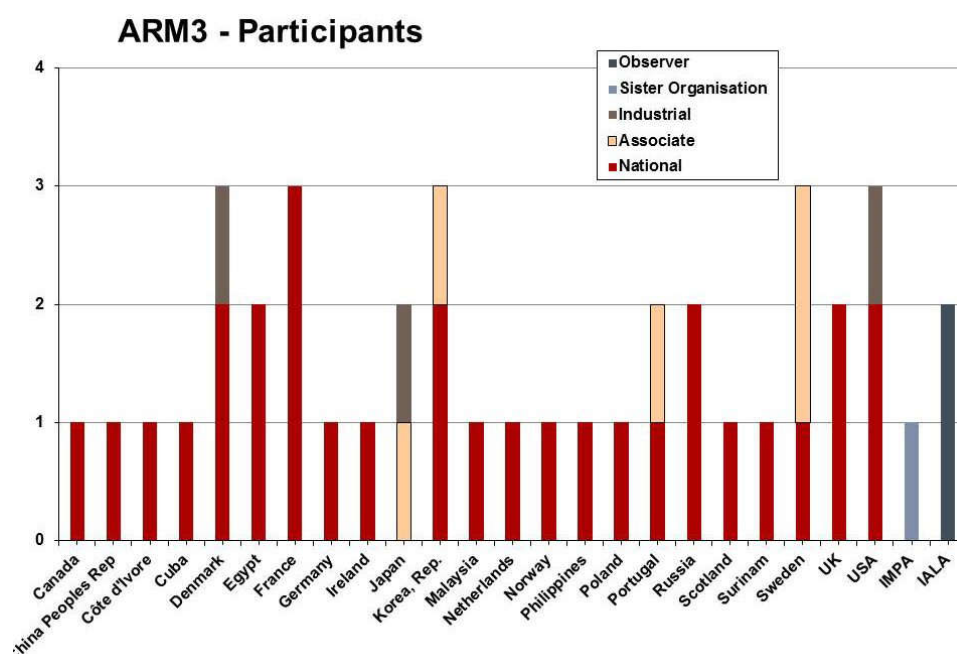
ARM Committee
3rd Session

Saint Germain en Laye, France
27 November 2015

1 Introduction

The 3rd meeting of the **ARM Committee** was held from 23 to 27 November 2015 at IALA.

The Chairman was Phil Day and Michael Skov was Vice Chairman. The Secretary for the meeting was Wim van der Heijden. 38 Members from 23 countries, one sister organisation and two IALA observers participated in ARM3; 7 participants for the first time.



The Chairman opened the meeting by welcoming all participants to ARM3 being the third session of the working period 2014-2018 with a special welcome to members participating for the first time.

A minute silence was observed for all the victims of the tragedy in Paris on 13 November 2015 in sympathy with all those affected by this terrible event.

Michael Card, Deputy Secretary-General, welcomed all members of the Committee and introduced two IALA Secondment Officers: Yong Hun Cho from Korea and Mahdi Al Mosawi from Bahrain. He also mentioned Audrey Guinault, new in the Secretariat.

The Committee was briefly informed on the activities with respect to the IALA change from NGO to IGO. He apologised the Secretary-General because he is at IMO for this reason. The diplomatic activities of the France Foreign Ministry have been started via the embassies to be ready for the Diplomatic Conference in Korea during the next IALA Conference. Important to notice that the change will not affect the Industrial Membership. Finally he told that IALA will modernise its visual image by a new logo, colours, fonts, website, etc. from the first of January 2016.



1.1 Administrative announcements

Virginia Butler gave a Safety Briefing and some information for lunches and coffee breaks for which she was thanked by the Chairman.

1.2 Approval of the agenda

The agenda was reviewed and adopted (ARM3-1.2).

1.3 Introductions and apologies

Individual Committee members were asked to introduce themselves.

The Committee noted apologies from members who were unable to attend as noted in ANNEX B.

1.4 Programme for the week

The Chairman explained the programme for the week (ARM3-1.4). Members were advised that the plenary session on Thursday may start at 15:30. The football match will be played on Tuesday at 17:00, the Committee dinner is on Wednesday evening.

2 Review of Action Items from ARM2

Input paper ARM3-2.1 refers.

2.1 Action Items – IALA Secretariat

It was noted that all IALA Secretariat actions from ARM2 had been completed.

2.2 Action Items – ARM Committee Members

It was noted that all actions had been completed.

3 Review of input papers

The list of input papers is automatically generated by the IALA web site when downloading one or more documents. Input papers are numbered in line with the agenda.

The input papers were reviewed and appointed to the working groups with the following remarks:

- Four new late input documents were received as output of the ENG Committee meeting the week before: ARM3-3.1.7, ARM3-3.1.8, ARM3-8.2.3 and ARM3-9.4.3.
- ARM3-3.1.2 covers the presentation as given in chapter 6.2.

4 Reports from other bodies

4.1 IALA Council

The Committee noted the following Council report:

- 60th Session, Kuala Lumpur, Malaysia, 26-29 May 2015, paper ARM3-4.1.1 refers.

There were no ARM specific issues reported because ARM2 was in parallel with C60. Michael Card informed about the formation of the Council Strategy Group and the work of the IALA Change of Status Working Group. He highlighted the relationship between IALA and IMO and the actions at ITU with respect to the VDES concept. A joint seminar of IALA and IHO on Arctic matters will be organised.

4.2 IALA Policy Advisory Panel

The Committee noted the PAP29 report, paper ARM3-4.2.1 refers.

The report of PAP30 was not available yet.

4.3 ACCSEAS

ARM3-4.3.1 till ARM3-4.3.9 refers.

The Committee and WG1 noted the final report of the ACCSEAS EU project which is valuable and can be of interest of IALA and the Committees. In particular ARM3-4.3.7 and ARM3-4.3.8, dealing with legacy aspects, will be incorporated within the work programmes of the Committees.

4.4 IMO

There were no reports from any IMO meetings received. The Deputy Secretary General however made a verbal report on a number of IMO activities.

5 Reports from Rapporteurs

5.1 Marine Spatial Planning

Rapporteur: George Detweiler

Paper ARM3-5.1 refers (presentation)

The rapporteur presented the activities in the United States on Marine Planning with a focus on the Atlantic Coast Port Access Route Study (ACPARS). The final report has been completed with the intention to create navigation corridors during marine planning period. Later on they may be changed into shipping safety fairways or other routing measures.

5.2 e-Navigation - shore side

Rapporteur: Gerry Brine

The rapporteur was not able to attend this meeting.

5.3 e-Navigation – shipborne side

Rapporteur: Harold McClenahan

The rapporteur presented some ideas on where the future of shipboard navigation may go.

- Rolls-Royce Unified Bridge Design won the Ergonomics Design Award. The first test-bed installation is in operation.
- Inmarsat has partnered with Rolls-Royce in the Advanced Autonomous Waterborne Applications Initiative (AAWA) to address factors to make autonomous ships a reality.

- Some studies are ongoing with respect to (future) data requirements.
- Some training and Human Element aspects were highlighted.

5.4 IALA Bulletin

Aline deBievre will do editorial work for IALA Bulletin in the future and will take care of the Committee reports for the Bulletin. This item will be removed from the agenda.

6 Presentations

6.1 IALA World-Wide Academy (WWA)

Paper ARM3-6.1 (presentation) refers.

The presentation was made by Mahdi Al Mosawi.

The presentation covered:

- The Golden Anchor Award received;
- Level 1 courses made in English, Spanish and French;
- Surinam is an accredited organisation;
- The ARM related WWA activities since ARM2;
- The planned activities of the WWA in 2016 up to ARM4;
- The number of target states which has decreased in 2015 as mission success is achieved.

6.2 Development of marine aids to navigation simulator

Paper ARM3-3.1.2 refers.

Shusaku Daijo gave a presentation with an interesting video on the development of a marine aids to navigation simulator. Many parameters of AtoN lights such as height, intensity, flash character, etc. can be varied to simulate the effect of the lights.

6.3 IALA Dictionary

Paper ARM3-6.2 refers.

Marie-Helene Grillet introduced a proposal to add and maintain terms of the IALA Dictionary. This work was prepared by the Dictionary Working Group (DWG). The DWG consist of the Chair and Vice-Chair of the committees with support of the IALA Secretariat.

6.4 Update IALA activities

Michael Card explained the new document structure with Standards, Recommendations and Guidelines. He showed the proposal of seven Standards and the underlying topic areas for Recommendations and the likely areas of Committee activities related to the topic areas. This proposal was agreed during PAP30 and goes for Council approval in December.

The new document structure will have impact on the Work Programme of the Committees. All Recommendations should be reviewed and detailed technical information should be moved to Guidelines underlying the Recommendations. This work can, if needed, be supported by the Secretariat.

6.5 Introduction of Egyptian Authority for Maritime Safety

Paper ARM3-6.3 (presentation) refers.

Medhat Elsayed Aly presented an introduction of the Egyptian Authority for Maritime Safety (EAMS) including the competencies and duties of the organisation. There was an overview presented of lighthouses on the Mediterranean and the Gulf of Suez with 9 AtoN projects to manage and monitor.

6.6 IALA Risk Management Tool Box

Paper ARM3-6.4 (presentation) refers.

Roger Barker gave a detailed presentation of the use of the IALA Risk Management Tool Box. He highlighted the relationship between PAWSA, as a qualitative tool, IWRAP, as a quantitative tool and simulation. Several examples were presented of areas with dense traffic and the effects of changing fairways or corridors and how the IALA Risk Management Tools can be used to make an assessment of appropriate mitigation measures.

The Chairman thanked all speakers for the presentations which are available on the ARM3 page in the Committee section of the IALA web-site.

7 Establish Working Groups

The Chairman informed that the work of the IALA Risk Management Tools Steering Group in the future will be hosted in the ARM Committee as Working Group 3. They will organise an intersessional telephonic meeting in December to discuss the transition.

The Chairman outlined the procedure to be followed by working groups, including the associated paperwork, after which two working groups were established and their tasks outlined. A list of working group participants is at Annex C.

Working Group (WG)	Working Group Chairman / Vice Chairman
WG1 – Navigational Requirements	Roger Barker / Jorge Teles
WG2 – Continuous Improvement	Guttorm Tomren (acting Chair) / Johan Westerlund (acting Vice Chair)

8 Working Group 1 – Navigational Requirements (WG1)

The WG commenced its work by reviewing the agenda items and tasks assigned. The Chair provided clarification on what work needed to be developed at ARM 3.

8.1 Contribute to develop a standard for the provision of AtoN (Task 1.1.1.)

Task Leader: Roger Barker

The WG, in cooperation with WG2, started to identify the connection between the existing Recommendations and Guidelines and the draft standards. This work will be the basis for further work at ARM4 regarding the adaptation of current documentation to the new IALA structure.

8.2 Develop guidance for AtoN authorities on Disaster Recovery (Task 2.1.1.)

Task Leader: Alfredo Dominguez

The draft guideline was finalized. It will now go through a final revision at ARM4, and it is proposed that the WG also develops a draft Recommendation to stand together with the guideline. Working paper ARM3-11.2.1 refers.

8.3 Develop guidance for AtoN authorities on the use of Marine Spatial Planning (Task 3.1.1.)

Task Leader: George Detweiler

Work continued on the development of the guideline, resulting on a working paper to be carried out to next session. Working paper ARM3-11.2.2 refers.

8.4 Develop guidance on the Marking of Wrecks as defined by the Nairobi Wreck Convention (Task 1.1.3)

This task is scheduled to commence at ARM4. Available input will be forwarded, ARM3-11.2.3 refers.

8.5 Input Papers reviewed by Working Group No. 1

The Working Group reviewed several input papers and 2 technical emails were sent through the Chairman.

- ARM3-3.1.6 on Advertising on AtoN was answered by e-mail correspondence to the Swedish Transport Agency during the meeting. Because the advice can be relevant for other members the reply is also output, ARM3-11.1.1 refers.
- ARM3-3.1.7 and ARM3-3.1.8 on the draft Guideline on Selection of Rhythmic Characters was answered to ENG by e-mail correspondence during the meeting. The Committee agreed with the current development. It was remarked that further harmonization with E-110 could be achieved in a revised E-110, containing only what is mandatory (what to do), and a revised draft guideline encompassing the items that will be cut from E-110.
- ARM3-4.3.1 till ARM3-4.3.9, the output of the ACCEAS project, were noted by WG1 and it was concluded that some of the documents can be very valuable for further future work of the Committee.

9 Working Group 2 – Continuous Improvement (WG2)

Portrayal of visual aids to navigation in ENC charts is essential for safe navigation. One input paper was received from Norway regarding this issue, where current portrayal of sector lights is considered not fully adequate. ENAV committee is requested to liaise with IHO on the subject and inform the ARM Committee regarding the progress of developing S-201. Further the reorganization of IALA document structure is a major task ahead.

The WG was very productive, producing 2 output papers for submission to Council and to the other Committees and 4 working papers for input to ARM4.

The Chair provided a brief overview of the objectives for this meeting and the input papers were reviewed.

The Chair advised that the priority tasks for the WG2 at ARM3 were:

- Develop the new IALA document structure following the expected Council approval of the 7 future IALA Standards, through revision of the underlying Recommendations and Guidelines.
- To progress the development of guidance on the Management of AtoN in Environmentally Protected Areas. (Task 2.5.1)
- To progress the updating and revision of the IALA NAVGUIDE including use of IALA-Wiki. (Task 4.2.2)

9.1 Develop guidance on the management of AtoN in environmentally protected areas (Task 2.5.1)

Task Leader: Gaelle Nassif

Assisted by: Kim Yeong-jae

Task has continued at ARM3. One input paper was submitted, ARM3-9.2.1. ARM members were requested to provide input on issues and best practice prior to ARM3 to enable the scope of the guideline to be accurately specified early in the drafting process. No responses were received from ARM members.

A questionnaire was developed to be forwarded to ARM members, as a working paper. Input to the questionnaire to be submitted before ARM4. ARM3-11.2.4 refers.

The draft of the guideline was slightly modified, and two definitions of “pollution” were suggested.

Action item:

ARM Members are requested to complete the questionnaire, provide comments, feedback and suggestions on the draft of the proposed guideline, and send it to the task leader prior to ARM4 (gaelle.nassif@cerema.fr).

9.2 Provide guidance on how to support the new document structure implementation (Task 4.2.6)

Task Leader: Cathrine Steenberg Assisted by: Artur Marques, Guttorm Tomren

The result from the PAP30 meeting on the proposed new IALA document structure was communicated by Michael Card during plenary. The task given was to categorize existing Recommendations and Guidelines on how well they fit the new document structure. He also gave advice to use green (ok), yellow (partly ok) and red (need to be rewritten) to indicate status of the documents. Other committees have to be asked to do the same task. The current ARM documents were mapped according to the general topic areas. The ARM Committee suggested adding a topic regarding Marine Spatial Planning, under the standard AtoN Planning and Service Requirements.

The Chair and Vice Chair will advise PAP regarding this change and on the need for external resource to assist in rewriting documentation.

9.3 Coordinate a limited review of the IALA NAVGUIDE to incorporate amended Recommendations and Guidelines and other necessary update via IALA Wiki (Task 4.2.2)

Task leader: Dave Merrill Assisted by: Johan Westerlund, Youki Mallette, Andrey Oleynikov, Viktoria Pogolian,

A proposed approach to updating the NAVGUIDE was made to ensure consistency and avoiding unnecessary duplication with other IALA documentation. In particular the use of an ‘executive summary’ approach is proposed in order to reduce the duplication with the detailed information contained in IALA Guidelines.

The tracking table for the NAVGUIDE was updated. The work group has used the “discussion tab” on summarizing changes to each chapter.

It was noted that all Committees have nominated a contact person.

IALA Wiki training was undertaken by most task group members to facilitate efficient updating of documents in ARM3 and in future ARM meetings. The WG members would like to thank David Hayes (GLAs of UK and Ireland) for his assistance in providing the training.

Action item

The **Chair** is requested to e-mail Committee Chairs to update them on the progress of the NAVGUIDE.

9.4 Amend IALA Dictionary as appropriate including harmonisation of definition of AtoN (Task 4.2.5)

Task Leader: Dave Merrill Assisted by: Johan Westerlund

Work was restarted at this task during ARM3. Some dictionary proposals will be forwarded to the Secretariat.

Task to be undertaken over the 2014-2018 work programme.

Action item

ARM members are requested to provide changes to the IALA Dictionary to the task leader prior to ARM4 (david.merrill@uscg.mil).

The **Committee Secretary** is requested to pass on the change request to the Secretariat.

9.5 Develop Guideline Use of pictograms on AtoN (Task 1.1.4)

Task Leader: Minsu Jeon

Work was started on this task during ARM3. The task leader made a scoping document for the planned progress of this task (ARM3-11.2.5). Task is scheduled to be completed at ARM7.

Action item

ARM members are requested to note the liaison note on the use of pictograms (ARM3-11.1.2) and provide input on issues and best practises, prior to ARM4 to the Committee Secretary (wim.vdh@iala-aism.org).

9.6 Input Papers reviewed by Working Group 2

The following input papers, not directly linked to ARM work program tasks, were also reviewed:

- ARM3-9.4.3 Liaison note from ENG3 regarding NAVGUIDE updating

Task Leader: Minsu Jeon

Input noted and agreed, no further action required.

- ARM2-9.4.2 Liaison Note from ENAV regarding NAVGUIDE updating

Task Leader: Johan Westerlund

Input noted and agreed, no further action required.

- ARM2-9.8.1 Input paper regarding portrayal of sector lights in ENC charts versus paper charts.

Task Leader: Johan Westerlund

Input paper was discussed within the ARM Committee and supported. The ENAV Committee is requested to note the concerns of NCA and liaise with IHO on this matter to ensure that sector lights and other forms of visual AtoN's are adequately portrayed by default in ENC in the future.

Action item

The **Committee Secretary** is requested to forward the Liaison Note on Portrayal of sector lights in ENC charts (ARM3-11.1.3) to the ENAV Committee.

The **DSG** is requested to liaise with IHO on the portrayal of sector lights in ENC charts.

- ARM3-3.1.4 and ARM3-3.1.5 Liaison note from ENAV regarding VDES user requirement and PNT related issues.

Task Leader: Johan Westerlund

Inputs noted and agreed.

Action item

*The **Chair** is requested to e-mail Chair of ENAV Committee to update on the review of the draft Guideline on User Requirements for VDES.*

Action item

*The **Committee Secretary** is requested to forward all working papers as listed in Annex E to ARM4 for further development.*

10 Review of Current Work Programme (2014 – 2018)

Input paper ARM3-10.1 refers.

The current Work Programme was reviewed and updated during the meeting. Some descriptions were changed, four tasks were cancelled and two new tasks are added to the Work Programme. The updated version will be available as ARM3-10.2 on the ARM3 section of the IALA web.

Action items

*The **Committee Secretary** is requested to forward the updated version of the current Work Programme (ARM3-10.2) to Council for approval and make it input for ARM4.*

ARM COMMITTEE 2014-18 WORK PROGRAMME

Overall Status Report (ARM3)

Task		Start Session	Planned End Session	Revised End Session	Progress Indicator			Status Overview
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1.1.3	Recommendation Guideline on the marking of wrecks as defined by the Nairobi Wreck Convention	4	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.1.4	Recommendation Guideline on the use of pictograms on AtoN	3	5	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ARM3
1.1.5	Guideline on the use of pictograms on AtoN	3	5		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Task merged with 1.1.4 ARM3
1.1.6	Guideline on the use of mobile AtoN	4	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.2.1	Populate S-100 as requested by ENAV Committee	1	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ARM1
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TD#3 – Marine Spatial Planning								
3.1.1	Develop guidance for AtoN authorities on the use of Marine Spatial Planning	1	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ARM1
TD#4 – International coordination and liaison								
4.1.1	Develop and maintain control sheet on committee external liaison	4	7		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Task cancelled ARM3
4.2.1	Develop IALA committee guidance to support the new document structure implementation	4	7		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Task cancelled ARM3
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4.2.3	Liaise with committees regarding applying the new IALA document structure	4	7		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Task cancelled ARM3
4.2.4	Revise ARM documents once wiki populated	4	7		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Task cancelled ARM3
4.2.5	Amend IALA dictionary as appropriate including harmonisation of definition of AtoN	1	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commenced ARM1
4.2.6	Map existing ARM documentation to standards generated by Secretariat	3	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	New task ARM3 Commenced ARM3
4.2.7	Rewrite ARM documentation to meet new document structure in conjunction with IALA assistance	3	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	New task ARM3 Commenced ARM3

11 Review of output and working papers

The Working Group Chairmen reported on the work carried out by their Working Groups.

The output documents listed at Annex E were reviewed and agreed.

The Committee Secretary was requested to forward the output documents, as indicated earlier in the report.

The Chairman then thanked the Chairs, Vice Chairs and members of the working groups for all their efforts during the week.

12 Any Other Business

12.1 PIANC meeting

In parallel with ARM3 a PIANC WG 161 meeting on 23 and 24 November took place which was complementary with the Marine Spatial Planning work of WG 1.

12.2 IMPA liaison

The input paper from IMPA SG (ARM3-3.1.1) was assessed with a useful dialogue with the IMPA SG at the meeting. It was agreed that due consideration of pilot observations would be taken into account during ARM work items.

13 Review of session report

The report of the meeting (ARM3-13) was reviewed and approved by the Committee on the 27th November 2015. Deadline for comments and corrections could be send till 14 December 2015.

Action Item

*The **Committee Secretary** is requested to forward summary of the report of ARM3 (ARM3-13) after completion (deadline 14 December 2015) to the IALA Council, to note.*

14 Date and venue of next meeting

ARM4 will be from 18 – 22 April 2016 at IALA HQ.

15 Closing of the Meeting

Michael Card thanked all Committee Members for their contribution and hard work during the week.

- He noted that the SG joined the IMO assembly meeting during the week. IALA had an input on the change from NGO to IGO and he reported that the IMO SG had supported the initiative. He also informed that the IMO assembly will select a new Council this day.
- He remarked that the IALA Council will meet 7 – 11 December. In spite of the fact that the deadline for submission of input to the Council meeting has been closed, the DSG will try the revised work plan of ARM accepted to avoid delay during ARM4.
- He said that the next PAP meeting in April 2016 will discuss the policy with respect to terrestrial radio navigation systems and will discuss the mid-term revision of the Strategic Vision of IALA.
- He reported the IALA participation in the Efficiency 2 project dealing with simulation of VDES aspects.
- He attended on upcoming IALA workshops from the ENAV Committee.

The Chairman again expressed his thanks for all the hard work done during the meeting.

The Chairman then asked if there were any final comments that members wished to make; there were none, at which he wished everyone a pleasant and safe journey home.

16 List of Annexes

1 Agenda

A copy of the agenda is at Annex A.

2 Participants

A list of participants is at Annex B.

3 Working Group Participants

A list of working group participants is at Annex C.

4 Input Papers

A list of input papers is at Annex D.

5 Output and Working papers

A list of output and working papers is at Annex E.

6 Action Items

A list of action items is at Annex F.

ANNEX A ARM3 COMMITTEE AGENDA



3rd Meeting of the AtoN Requirements and Management (ARM) Committee

The 3rd meeting of the **ARM Committee** will be held from 23 – 27 November 2015, at IALA, St Germain en Laye, France.

The opening plenary will commence at 1300 on Monday 22 November, and the closing plenary will end at approximately 1300 on Friday 27 November.

Committee Chair, Vice-Chair and Working Group Chairpersons are requested to meet at 0900 on Monday 23 November.

AGENDA

1. Introduction
 - 1.1. Administration and Safety Briefing
 - 1.2. Approval of agenda
 - 1.3. Apologies and introductions
 - 1.4. Programme for the week
2. Review of action items from last meeting
 - 2.1. Review of action items from ARM2
 - 2.2. Final Report from ARM2 - for reference
3. Review of input papers
 - 3.1. Input papers
4. Reports from other bodies:
 - 4.1. IALA Council
 - 60th Session, Kuala Lumpur, Malaysia, 26-29 May 2015
 - 4.2. IALA Policy Advisory Panel
 - PAP29, IALA HQ, 15-16 June 2015
 - PAP30, IALA HQ, 11-13 November 2015
 - 4.3. ACCSEAS
 - 4.4. IMO
5. Reports from rapporteurs:

<ul style="list-style-type: none"> • Marine Spatial Planning • e-Navigation shore side • e-Navigation shipborne side • IALA Bulletin 	George Detweiler Gerry Brine Harold McClenahan Michael Skov
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6. Presentations (15 minutes)
 - Update IALA activities Michael Card
 - Update WWA activities Mahdi Al Mosawi
7. Establish Working Groups
8. WG1- Navigational requirements
 - 8.1. Develop a standard for the provision of AtoN (Task 1.1.1)
 - 8.2. Develop guidance for AtoN authorities on disaster recovery (Task 2.1.1)
 - 8.3. Develop guidance for AtoN authorities on the use of Marine Spatial Planning (Task 3.1.1)
9. WG2 – Continuous improvement
 - 9.1. Develop a standard for the management of AtoN (Task 2.1.2)
 - 9.2. Develop guidance on the management of AtoN in environmentally protected areas (Task 2.5.1)
 - 9.3. Develop control sheet on committee external liaison (Task 4.1.1)
 - 9.4. Populate IALA Wiki with all ARM owned documents including MBS and NAVGUIDE (Task 4.2.1)
 - 9.5. Liaise with committees regarding population of Wiki, workplans and document pyramid (Task 4.2.2)
 - 9.6. Revise ARM documents once Wiki populated (Task 4.2.3)
 - 9.7. Amend IALA Dictionary as appropriate including harmonisation of definition of AtoN (Task 4.2.4)
10. Review of Current Work Programme (2014 – 2018)
11. Review of output and working papers
 - 11.1. Output papers
 - 11.2. Working papers
12. Any Other Business
13. Review of session report
14. Date and venue of next meeting
15. Close of the meeting

ANNEX B ARM2 PARTICIPANTS**Country**

Canada	Canadian Coast Guard Ms Youki MALLETT Phone +1 613 993 1873 e-mail (main): youki.mallette@dfo-mpo.gc.ca
China (People's Rep of)	China Maritime Safety Administration Mr Baohong WANG e-mail (main): wangbaohong@msa.gov.cn
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Apologies were received from the following.

Name	Organisation	Country
James Collocott	SAMSA	South Africa
Christian Herrlich	Federal Waterways	Germany
Raul Escalante	Hidrovia	Argentina
Ronaldo Sosa	Venezuela Hydrography	Venezuela
Gerry Brine	AMSA	Australia
Martin Bransby	General Lighthouse Authorities of UK and Ireland	UK

New Members

Name	Organisation	Country
Joris Brouwers	Ministry of Infrastructure	Netherlands
Ramon Lopez	PCG	Philippines
Dave Merrill	USCG	USA
Baohong Wang	China MSA	China
Dii Thomas	Nat Maritime Safety Services	Papua New Guinea
Alimuddin Bin Amirudin	Marien Dept	Malaysia
Bryan Ristie	Suriname Maritime Authority	Surinam

ANNEX C WORKING GROUP PARTICIPANTS**Working Group 1 Navigational Requirements**

	Name	Organisation / Country
1	Roger Barker (Chairman)	THLS / England & Wales
2	Jorge Teles (Vice Chairman)	Direcção de Faróis / Portugal
3	Bin Amirudin Alimuddin	Malaysia Marine Department / Malaysia
4	Marek Ledochowski	Maritime Office Gdynia / Poland
5	Jakob Bang	DMA / Denmark
6	Joris Brouwers	Ministry of Infrastructure and the Environment / The Netherlands
7	Artur Dias Marques	Portuguese Hydrographic Office / Portugal
8	Ramon Lopez	Philippines Coast Guard / Philippines
9	George Detweiler	US Coast Guard / USA
10	Johan Pettersson	Swedish Transport Agency / Sweden
11	Alfredo Dominguez	Tideland Signal Corporation / USA
12	Bryan Michel Ristie	Maritime Authority Surinam / Surinam
13	Jean Luc Fontan	Direction des Affaires Maritimes / France
14	Luis Belis Santa Cruz Pac	Geocuba / Cuba
15	Mats Hörström	Swedish Transport Agency / Sweden
16	Youngjin Kim	Ministry of Oceans and Fisheries / Republic of Korea
17	Baohong Wang	China MSA / People's Republic of China
18	Harold McClenahan	CIL / Ireland
19	Gerhard Mueller-Hagen	Federal Waterways & Shipping Administration / Germany
20	Jean-Charles Cornillou	CEREMA / France

Working Group 2 Continuous Improvement

	Name	Organisation / Country
1	Guttorm Tomren (Chairman)	NCA / Norway
2	Johan Westerlund (Vice Chairman)	SMA / Sweden
3	David Merrill	US Coast Guard / USA
4	Jeon Minsu	Korea Association of AtoN / Republic of Korea
5	David Hayes	Trinity House / UK
6	Youki Mallette	Canadian Coast Guard / Canada
7	Cathrine Steenberg	Force Technology / Denmark
8	Gaëlle Nassif	CEREMA / France
9	Artur Dias Marques	Portuguese Hydrographic Office / Portugal
10	Andrew Oleynikov	Department of Navigation and Oceanography / Russia
11	Victoria Pogosian	Department of Navigation and Oceanography / Russia
12	Medhat Eisayed Ali	Egyptian Authority for Maritime Safety / Egypt
13	Mahfouz Hafez Mohamed	Egyptian Authority for Maritime Safety / Egypt
14	Yeong Jae Kim	Ministry of Maritime Affairs / Republic of Korea

ANNEX D LIST OF INPUT PAPERS

All papers are posted on the Committee section of the IALA website

	Document number	Agenda item	Title
1	ARM3-1.2	1.2	Agenda
2	ARM3-1.4	1.4	Programme for the week
3	ARM3-2.1	2.1	Actions from ARM2
4	ARM3-2.2	2.2	(ARM2-13) Report of ARM2
5	ARM3-3.1.1	3.1	IMPA input paper to IALA ARM committee meeting 23
6	ARM3-3.1.2	3.1	Development of marine aids to navigation simulator 20151019
7	ARM3-3.1.3	3.1	2015-10-15 VDES workshop tokyo flyer final
8	ARM3-3.1.4	3.1	(ENAV17-14.1.11) Liaison note re draft Guideline on VDES User Requirements
9	ARM3-3.1.5	3.1	(ENAV17-11.23) PNT-relevant topics to VDES 20151008
10	ARM3-3.1.6	3.1	Advertising on AtoN_SE
11	ARM3-3.1.7	3.1	(ENG3-11.1.9) Liaison note ENG3 to ARM 3 on Draft Guideline on Selection of Rhythmic Characters review 20151119
12	ARM3-3.1.8	3.1	(ENG3-11.2.16) WG1 Draft Guideline on Selection of Rhythmic Characters of Lights on AtoN 20151119
13	ARM3-4.1.1	4.1	C60 Report
14	ARM3-4.2.1	4.2	(PAP29-10.1) Report of PAP29
15	ARM3-4.3.1	4.3	ACCSEAS Project Output Reports
16	ARM3-4.3.2	4.3	ACCSEAS Route Topology Model Report
17	ARM3-4.3.3	4.3	ACCSEAS Training Needs Analysis Report
18	ARM3-4.3.4	4.3	ACCSEAS e-Navigation Architecture Report v1
19	ARM3-4.3.5	4.3	ACCSEAS Final Conference Report
20	ARM3-4.3.6	4.3	ACCSEAS Final Report v1
21	ARM3-4.3.7	4.3	ACCSEAS Legacy report
22	ARM3-4.3.8	4.3	ACCSEAS Legacyplan Final v1 8 (3)
23	ARM3-4.3.9	4.3	ACCSEAS Baseline and Priorities Report v3.0
24	ARM3-8.1.1	8.1	(ARM2-11.2.3) WG1_ WP3_ draft recommendation on wreckage
25	ARM3-8.2.1	8.2	(ARM2-11.2.1) WG1_ WP1_ disaster recovery
26	ARM3-8.2.2	8.2	(VTS40-12.1.6) Liaison to ARM on disaster recovery planning WG2 response
27	ARM3-8.2.3	8.2	(ENG3-11.1.10) Liaison note to ARM on disaster recovery planning
28	ARM3-8.3.1	8.3	(ARM2-11.2.2) WG1_ WP2_ MSP_ output

	Document number	Agenda item	Title
29	ARM3-9.2.1	9.2	(ARM2-11.2.5) Management of AtoN in Env Prot Areas 20150528 Final for Report
30	ARM3-9.4.1	9.4	(ARM2-11.2.4) navguide 2015 tracking table
31	ARM3-9.4.2	9.4	(ENAV17-14.1.1) Liaison note to ARM regarding updating the IALA NAVGUIDE
32	ARM3-9.4.3	9.4	(ENG3-11.1.8) NAVGUIDE update ENG liaison note to ARM
33	ARM3-9.8.1	9.8	20150908 S-201 Portrayal of sectorlights in ENC charts versus paper charts v02
34	ARM3-10.1.1	10.1	(ARM2-10.2) Committee workplan 2014-18 ARM2

Presentations given by rapporteurs and presenters

All presentations are posted on the Committee section of the IALA website

Document number	Agenda item	Title
ARM3-5.1	5	Marine Planning Presentation
ARM3-6.1	6	IALA WWA brief
ARM3-6.2	6	IALA Dictionary
ARM3-6.3	6	Introduction of Egyptian Authority for Maritime Safety
ARM3-6.4	6	Regional case study of the use of IALA Risk Management Tools

ANNEX E LIST OF OUTPUT DOCUMENTS, E-MAILS AND WORKING PAPERS

Output documents are submitted for review/action by a body other than the Committee initiating the document.

Number	Title	Status
ARM3-13	Report ARM3	To Council to note
ARM3-10.2	Work Programme 2014-2018 update ARM3	To Council to approve
ARM3-11.1.1	Advertising on AtoN	e-mail to STA, info for all members
ARM3-11.1.2	Liaison note to IALA members on use of pictogram	To ENG, ENAV, VTS to contribute
ARM3-11.1.3	Liaison note to ENAV on portrayal of sector lights	To ENAV to action

e-Mails are submitted for answer/review/action to external parties and other Committees.

Number	Title	Status
ARM3-11.3.1	Advertising on AtoN	To STA
ARM3-11.3.2	ARM3 Chair to Chair notes	To all Committees

Working papers will remain within the Committee for further review.

Number	Title	Status
ARM3-11.2.1	WG1_WP1_arm3_disaster_recovery	To ARM4
ARM3-11.2.2	WG1_WP2_arm3_msp_output_week_548	To ARM4
ARM3-11.2.3	(ARM3-8.1.1) WG1_ WP3_draft recommendation on wreckage	To ARM4
ARM3-11.2.4	EPA Questionnaire and draft guideline	To ARM4
ARM3-11.2.5	WG2-Scoping paper for pictogram	To ARM4
ARM3-11.2.6	Mapping of ARM documentation	To ARM4
ARM3-11.2.7	NAVGUIDE 2015 tracking table	To ARM4

ANNEX F ACTION ITEMS

Action Items for Secretariat

1. The **Committee Secretary** is requested to pass on the change request to the Secretariat. 12
2. The **Committee Secretary** is requested to forward the Liaison Note on Portrayal of sector lights in ENC charts (ARM3-11.1.3) to the ENAV Committee. 12
3. The **DSG** is requested to liaise with IHO on the portrayal of sector lights in ENC charts. 12
4. The **Committee Secretary** is requested to forward all working papers as listed in Annex E to ARM4 for further development. 13
5. The **Committee Secretary** is requested to forward the updated version of the current Work Programme (ARM3-10.2) to Council for approval and make it input for ARM4. 13
6. The **Committee Secretary** is requested to forward summary of the report of ARM3 (ARM3-13) after completion (deadline 14 December 2015) to the IALA Council, to note. 15

Action Items for Members

7. A questionnaire was developed to be forwarded to ARM members, as a working paper. Input to the questionnaire to be submitted before ARM4. ARM3-11.2.4 refers. 11
8. **ARM Members** are requested to complete the questionnaire, provide comments, feedback and suggestions on the draft of the proposed guideline, and send it to the task leader prior to ARM4 (gaelle.nassif@cerema.fr). 11
9. The **Chair** is requested to e-mail Committee Chairs to update them on the progress of the NAVGUIDE. 11
10. **ARM members** are requested to provide changes to the IALA Dictionary to the task leader prior to ARM4 (david.merrill@uscg.mil). 12
11. **ARM members** are requested to note the liaison note on the use of pictograms (ARM3-11.1.2) and provide input on issues and best practises, prior to ARM4 to the Committee Secretary (wim.vdh@iala-aism.org). 12
12. The **Chair** is requested to e-mail Chair of ENAV Committee to update on the review of the draft Guideline on User Requirements for VDES. 13