Please comment

by 11 May 2012



**Report of the 18th Session of the IALA ANM Committee**

**23 to 27 April 2012**

***Executive Summary***

* 44 members from 23 countries attended the meeting, setting the second highest attendance for the Committee; 8 members were attending for the first time;
* The Committee considered 57 input papers;
* The Committee braved extreme April weather (photograph)
* The Committee produced 20 output papers, including:
* A draft Recommendation on the marking of drifting wreckage;
* A draft revised Recommendation O-104 on ‘Off Station’ Signals for Major Floating Aids’;
* A draft Guideline on the Global Sharing of Maritime Data;
* A draft Guideline on Audible Signals as aids to navigation;
* A draft Guideline on Technical Features and Technology Relevant for Simulation of AtoN;
* A draft Comment Paper for NAV58 stating IALA’s views on AIS AtoN ;
* Two requests for a new Work Item (Section 13.8 and Annex G)
* Work items for the 2014 -18 program were proposed (section 11);
* The IHO Registry AtoN metadata Product Specification was debated and progressed. Concerns were raised regarding the Committee’s technical competence on this subject. These concerns will be communicated to PAP23;
* Members of the Committee participated in a steering group meeting for ANM19 and the Risk seminar planned for November 2012;
* Preparations were made for the ‘marine spatial planning’ workshop in May 2013 (section 10);
* A response was provided to an IHO query regarding AtoN categorization;
* Work items completed to date are 5,10,11,13,14,17 & 19;
* There was a general feeling that much of the Committees’ work is now more frequently crossing boundaries with other Committees;
* One ‘face to face inter-sessional meeting is planned (section 9.9)
* Changes to the Work Programme were proposed; two new work items (items 20 & 21 (Annex G):
* It is proposed to defer a planned workshop on AIS AtoN to the 2014 - 2018 Work Programme (see section 13.9).

Table of Contents

Table of Contents 2

Report of the 18th Session of the IALA ANM Committee 5

1 General 5

1.1 Administrative Announcements 5

1.2 Approval of the Agenda 6

2 Review of Action Items from ANM17 6

2.1 Action Items – IALA Secretariat 6

2.2 Action Items – ANM Committee Members 6

3 Review of input papers 6

4 Reports from other bodies 6

4.1 IALA Council 52nd session 6

4.2 Report of PAP22 6

4.3 Report of COMSAR16 7

5 Reports from Rapporteurs 7

5.1 Risk Management and Risk Models (M1) 7

5.2 IALA Questionnaire (M2) 7

5.3 Offshore man-made structures (M3) 7

5.4 Development of e-Navigation within AtoN Authorities (M4) 7

5.5 Development of e-Navigation for AtoN users (M5) 8

5.6 Development of mobile marine products for AtoN users (M6) 8

6 Presentations 8

6.1 IALA World-Wide Academy (WWA) 8

6.2 Offshore Windfarm Planning 9

7 Establish Working Groups 9

8 Working Group 1 – Navigational Requirements (WG1) 9

8.1 Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth. (Task 1\*) 9

8.2 Develop Recommendations on AtoN standards and navigational requirements in risk control measures included in e-Navigation (this would include a revision (or a replacement) of the existing Recommendations and Guideline on risk management). (Task 2\*) 9

8.3 Develop guidance on the application of maritime surface picture (e.g. AIS traffic data) for analysis in risk assessment and the provision of Aids to Navigation (Task 3\*) 10

8.4 Develop guidance for AtoN Authorities in the use of Virtual Aids to Navigation assessing their use and contribution to safety of navigation (Task 4\*) 10

8.5 Consider the IMO Wreck Removal Convention and its implications for AtoN Authorities and States. Develop a Recommendation for IALA Members including guidance on marking ‘floating wreckage’, taking into account existing IALA guidance (Task 5\*) 10

8.6 Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures (Task 12\*) 11

8.7 Input Papers reviewed by Working Group 1 11

8.7.1 AtoN Metadata Product Specification. 11

9 Working Group 2 – Continuous Improvement (WG2) 11

9.1 Co-ordinate a limited review of the IALA NAVGUIDE, to incorporate amended Recommendations and Guidelines and other necessary updates (Task 6) 12

9.2 Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process (Task 7\*) 13

9.3 Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy. Review IALA Guideline 1052. (Task 8\*) 13

9.4 Review and update Guideline 1004 for AtoN Authorities on level of service and changing user requirement; such as the need for landfall lights and unlit AtoN (Task 9\*) 14

9.5 Review IALA Recommendation O-104 of 1998, for off station Signals for Major Floating Aids to Navigation and extended to considerations of Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys (Task 11\*) 14

9.6 Co-operate with the other committees in the project for AtoN Status / information exchange and associated metadata (Task 13\*) 15

9.7 Examine the use of Audible Signals as aids to navigation and develop an IALA Guideline on their future – in conjunction with the EEP Committee (Task 14\*) 15

9.8 Review ANM Recommendations & Guidelines (Task 16\*) 15

9.9 Develop a supplementary Guideline to 1058 providing technical detail for simulator providers and procurers of simulation to ensure appropriate components and quality for AtoN features (Task 18\*) 16

9.10 Other matters 16

10 Develop a Recommendation for navigational safety matters within Marine Spatial Planning (Task 15\*) 17

11 Future Work Programme (2014 – 2018) 17

12 Review of output and working papers 17

13 Any Other Business 18

13.1 What is a major light (in the context of charting)? (WG2) 18

13.2 Draft Guideline on the Global Sharing of Maritime Data (WG2) 18

13.3 Further guidance on the use of daymarks (WG2) 18

13.4 IHO Registry (S-100 GI Registry) (WG1) 18

13.5 PIANC WG161 (WG2) 18

13.6 Applications of AtoN within marine spatial planning workshop 19

13.7 ANM19 19

13.8 Proposals for new Work Items 19

13.9 Workshops & seminars 19

14 Date and venue for next meeting 19

15 Review of session report 19

16 Closing of the Meeting 19

17 List of Annexes 20

ANNEX A ANM18 Committee Agenda 21

ANNEX B ANM18 Participants 23

ANNEX C Working Group Participants 33

ANNEX D List of input papers 35

ANNEX E List of Output and Working Papers 41

ANNEX F Action Items 43

ANNEX G Revision of the ANM Work Programme 45



|  |  |
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| ANM Committee  18th Session | 27 April 2012 |

Report of the 18th Session of the IALA ANM Committee

# General

The 18th meeting of the **ANM Committee** was held from 23 to 27 April, 2012 at IALA, with Phil Day as Chairman and Michael Skov as Vice Chairman. The Secretary for the meeting was Mike Hadley.

To show their hardiness, ANM18 braved the rain for their meeting photograph.



Apologies were received from:

|  |  |  |
| --- | --- | --- |
| **NAME** | **ORGANIZATION** | **COUNTRY** |
| Fidel Almaguer | Geocuba | Cuba |
| Raul Escalante | Hidrovia | Argentina |
| Henrik Eusterbarkey | Federal Waterways | Germany |
| Risto Joro | FTA | Finland |
| Phillipe Lijour | CETMEF | France |
| Robert McCabe | CIL | Ireland |

The Chairman opened the meeting by introducing himself and the Vice Chairman, whom he welcomed back. He then extended a warm welcome to all the participants to ANM18, particularly those attending for the first time.

The Chairman then asked the members to introduce themselves

## Administrative Announcements

Mike Hadley provided information on health and safety and other administrative details.

The Chairman thanked the Secretariat for the information provided.

The Chairman then ran through the programme for the week (Paper ANM18/1/2 refers). Jean-Luc Fontan and John Festarini then briefed the meeting’s social programme before the Chairman reviewed the week ahead.

## Approval of the Agenda

The agenda (paper ANM18/1/1 rev3) was reviewed and adopted.

# Review of Action Items from ANM17

All action items were reviewed; paper ANM18/2/1 rev1 refers.

## Action Items – IALA Secretariat

It was noted that all were complete.

## Action Items – ANM Committee Members

The Chairman then ran through the action items arising from ANM17 attributed to the Committee members. The following points were noted:

Action 39. The Chairman and Vice Chairman of the ANM Committee are requested to progress the development of the Marine Spatial Planning questionnaire.

The Chairman said that this item will be completed during the meeting. (See ANM18/C&VC/WP3.)

# Review of input papers

The list of input papers (ANM16/3/1 rev6) was noted.

The input papers were reviewed, briefly. The Information Papers were noted and the allocation to Working Groups of papers associated with ‘Any other business’ (Agenda item 13) was highlighted.

# Reports from other bodies

The Secretary reviewed the reports of the 52nd session of the Council. The Chairman reviewed the outcome of PAP22 and the Secretary reviewed the report from IMO COMSAR16.

## IALA Council 52nd session

ANM18/4/1 refers.

From the report, the Committee noted the:

* comments and decisions regarding ANM17;
* Council remarks about tackling priority tasks;
* discussion on the revised MBS agreement;
* potential new status for IALA;
* request by Council for Committees to provide proposals to strategy / tasks for 2014 – 2018 by October, noting that ANM19 would be taking place in November;
* need to focus on technical aspects of polar AtoN activity;
* Council’s support for the IHO Registry;
* WWA AtoN training model courses;
* Comment that ANM may take over the operational aspects of e-Navigation;
* integration of IALA websites

## Report of PAP22

ANM18/4/2 refers.

The Chairman explained the composition and purpose of the PAP and how IALA’s strategy is developed. From the report, the Committee noted the:

* development in IWRAP Mk2 software and the increasing international recognition of the IALA Risk seminars;
* approval for IALA to become a submitting organisation and domain holder within the IHO registry;
* possible need for some form of regulatory process regarding the development of e-Navigation.

## Report of COMSAR16

ANM18/4/3 refers.

From the report, the Committee noted the slow progress made at the meeting with regard to e-Navigation.

# Reports from Rapporteurs

Where provided, presentations made during this agenda item form part of the output of the meeting and are on the FTP server and the Committee website.

## Risk Management and Risk Models (M1)

Jakob Bang provided a presentation covering the composition oft the IALA Risk Management Toolbox and asked members of the Committee to spread the word about what he said is an underutilised resource. He mentioned the next Risk Management seminar, planned for 5-9 November in Sydney and details of which are available from the IALA and AMSA websites:

www.iala-aism.org

[www.amsa.gov.au/about\_amsa/conferences/IALAWrap.pdf](http://www.amsa.gov.au/about_amsa/conferences/IALAWrap.pdf)

A new version of IWRAP Mk2 was announced, which includes a Web Map Service.

So far, 13 licenses for the commercial version have been sold and the responses to a questionnaire on the use of the risk toolbox have been made available as part of the presentation output from the meeting.

In discussion, it was said that the use of information produced during the recent Risk Management seminar had been very helpful when talking with government authorities, a comment that was endorsed by another member.

## IALA Questionnaire (M2)

Victor da Conceicao gave a presentation showing statistics based on the responses (20 countries / 22 organisations) received to the 2010 IALA Annual Questionnaire. It was said that keeping the questionnaire unchanged does permit more reliable statistical detail to be gathered, provided that countries continue to report each year. The depth to which one can ‘drill down’ into the data was shown but it was emphasised that the data needs reviewing before a report is made public, as some countries seem to have more automated lighthouses than lighthouses.

The menu system was demonstrated and comment from the members had been taken into account. A faulty link from the IALA website to the host website has been corrected. The results of the survey are available in .pdf form and via WEBGIS, from <http://gis.hidrografico.pt/iala/>.

## Offshore man-made structures (M3)

Raven Kurtz was unable to report at the opening plenary but a presentation made to WG1 is included in the output from the meeting.

## Development of e-Navigation within AtoN Authorities (M4)

Knowing that Robert McCabe would be unable to attend the meeting Gerry Brine gave a presentation that included some comments about monitoring item 5.

Significant outcomes from e-NAV11 were stated, as was the decision at IMO to base the e-Navigation Common Data Structure on the IHO’s S-100 GI Registry. A draft Guideline on the Management of the IHO Registry and an impact assessment on IALA participating in what is now referred to as the IHO registry will be reviewed at the June Council meeting and its decision is awaited.

AMSA have sponsored a PhD study into human system integration and it was said that it was expected that the thesis would be made available when the study is complete.

Other items covered were trials of real, synthetic and virtual AIS AtoN, the start of the project ACCSEAS. The IHO has produced ECDIS trial data sets, aimed at identifying for users’ equipment known anomalies. It was stressed that it is important that mariners respond to the results of running the trial data sets.

The port of Gladstone has implemented a second entry / exit channel marked by virtual AtoN and the port of Dampier is trialling symbology for radar and ECDIS.

The results of the 2012 e-Navigation Underway conference are available from [www.efficiensea.org/default.asp?Action=Details&Item=494](http://www.efficiensea.org/default.asp?Action=Details&Item=494) or <http://delivery.kundelink.dk/kunder/efficiensea/index.php>.

It was announced that the 2013 e-Navigation Underway conference is being planned for 29 - 31 January 2013 and current information can be found via <http://www.e-navigation.net/index.php?page=e-nav-underway-2013>.

## Development of e-Navigation for AtoN users (M5)

See comment under agenda item 5.4.

## Development of mobile marine products for AtoN users (M6)

Marek Ledochowski said that Sweden has produced 8 Apps for mainly iPad / Android tsblets based on S-57 charts but that only one incorporates AIS; the cost was running between €50 to €100+ per App. He then said that UK pilots are reporting problems with updating charts and invited the Committee to consider the integrity of AtoN data. Finally, it was announced that the manufacturers of e-Pelorus are hoping to trial the equipment during the ACCSEAS project.

The Chairman thanked the rapporteurs for their contributions and reminded the Committee that they have been asked to provide relevant input to the rapporteurs 8 weeks before each meeting.

Action item

Members are requested to provide relevant input to the Committee rapporteurs 8 weeks before each meeting.

# Presentations

Copies of all presentations have been posted on the FTP server.

## IALA World-Wide Academy (WWA)

The presentation was made by Stephen Bennett.

Having introduced himself, he gave a short presentation about the current status and future intentions for the WWA. He stressed the Academy’s financial independence and how it is integral with IALA, with training and capacity building going ‘hand in hand’. It was said that the WWA intends to follow the IHO’s model for capacity building but is expecting to establish 7 regions, each with a lead state. It will be guided by the 4As: Awareness, Assessment, Analysis & Actions.

It is intended that a brief will be given to each Committee meeting.

Current progress and future intentions for model courses were covered, including the significant advances made during EEP18 and the commitment to produce 27, out of an anticipated 60, model courses. It was stated that the WWA will have its own website embedded with the IALA website. From its website WWA model courses will be downloadable and the Academy will be taking over responsibility for some existing training oriented Recommendations and Guidelines, as approved by Committees and formally endorsed by the Council.

The model course process and flow was shown and it was stated that it is expected that at least some model courses will be run at IALA*.*

It was noted that a start has been made on a Radionavigation model course. Stephen Bennett confirmed that the WWA would be looking to the Committees to provide the substance of each model course, which the relevant Committee would approve.

It was stressed that the WWA Board has its own, delegated responsibility but will work under the direction of the IALA Council, with briefings being given to each meeting of the Council. In all cases, the aim is for the WWA’s activities to be transparent.

## Offshore Windfarm Planning

The presentation, which was subtitled ‘Learning by doing in the Netherlands’, was given by Ernst Bolt. The on going planning process in the Netherlands was explained with has proved to be three steps in its development. The way that a National spatial strategy has led to an integrated management plan for the North Sea was explained, including the use of the Dutch software program SAMSON as was the use of traffic modelling, later verified by AIS information.

A proposal is currently being prepared for IMO.

In response to a question, it was said that no ‘one size fits all’ figure can be given for a safety distance; only parameters can be determined by which individual assessment can be made. Support for this view came from the UK.

The Chairman thanked both the presenters and sought support for the Risk Management seminar and ANM19, both of which will be held in Sydney / Brisbane in November.

# Establish Working Groups

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.

|  |  |
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| Working Group (WG) | Working Group Chairman / Vice Chairman |
| WG1 – Navigational Requirements | Roger Barker / Jorge Teles |
| WG2 – Continuous Improvement | Gerry Brine / Bjorn Erik Krosness |

# 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 ANM18 including working papers and potential output papers. For that purpose the 20 members of WG1 were assigned to the 6 tasks described below.

## Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth. (Task 1\*)

Task Leader: Harry McClenahan Assistant Task Leader: Marek Ledochowski

After the development of the architecture of the guideline (accomplished at ANM 17), the WG continued to develop its content, resulting in a working document (ANM18/WG1/WP1) that will be carried over into ANM19 for continued development and refinement.

Action Item

The IALA Secretariat is requested to forward ANM18/WG1/WP1 (Draft Guideline on User Requirements and Practical Applications of e-Navigation from Berth to Berth) to ANM19.

## Develop Recommendations on AtoN standards and navigational requirements in risk control measures included in e-Navigation (this would include a revision (or a replacement) of the existing Recommendations and Guideline on risk management). (Task 2\*)

Task Leader: Scott Smith Assistant Task Leader: Johan Pettersson

The WG finalised the development and refinement of IALA Guideline 1018 (ANM18/WG1/WP2). This document will now be sent to the e-NAV and VTS Committees for comments covered by a liaison note explaining the changes introduced (ANM18/output/5).

Action Item

The Secretariat is requested to forward ANM18/WG1/WP2 (1018 Ed3 Risk Management) to ANM19.

The Secretariat is requested to forward the Liaison Note on draft Revised IALA Guideline 1018 On Risk Management (ANM18/output/5 to the e-NAV and VTS Committees.)

The Secretariat is requested to forward the commented on draft Revised IALA Guideline 1018 (ANM18/output/5A) to the e-NAV and VTS Committees.

## Develop guidance on the application of maritime surface picture (e.g. AIS traffic data) for analysis in risk assessment and the provision of Aids to Navigation (Task 3\*)

Task Leader: Roger Barker Assistant Task Leader:

The WG continued to develop its content, resulting in a working document (ANM18/WG1/WP3) and two support documents (ANM18/WG1/WP4 and ANM18/WG1/WP5) that will be carried over into ANM19 for continued development and refinement.

The Secretariat is requested to forward ANM18/WG1/WP3 (Draft Guideline on AIS Analysis) to ANM19.

The Secretariat is requested to forward ANM18/WG1/WP4 (Maximizing the Potential of AIS) to ANM19.

The Secretariat is requested to forward ANM18/WG1/WP5 (OREI - Widths of transit corridors) to ANM19.

## Develop guidance for AtoN Authorities in the use of Virtual Aids to Navigation assessing their use and contribution to safety of navigation (Task 4\*)

Task Leader: Hideki Noguchi Assistant Task Leader: Khalil Al Balushi

The WG worked in the review and update of IALA Recommendation O-143, and guideline 1081 resulting in two working documents (ANM18/WG1/WP6 and ANM18/WG1/WP7), which will be revised at the next session. The WG also produced a draft Comment Paper (ANM18/output/6) for NAV58, regarding the different interpretations of the AIS AtoN capability.

Action Item

The IALA Secretariat is requested to forward ANM18/WG1/WP6 (Guideline1081 Ed1 Virtual AtoN) to ANM19.

The IALA Secretariat is requested to forward ANM18/WG1/WP7 (Recommendation O-143 Ed1 Virtual AtoN review) to ANM19.

The Secretariat is requested to forward the draft Comment Paper for NAV 58 on IALA’s views on AIS aids to navigation (ANM18/output/6) to Council, for approval, by e-mail (Deadline for IMO is 11 May 2012).

If approved, the Secretariat is requested to forward the draft Comment Paper for NAV 58 on IALA’s views on AIS aids to navigation (ANM18/output/6) to NAV58.

## Consider the IMO Wreck Removal Convention and its implications for AtoN Authorities and States. Develop a Recommendation for IALA Members including guidance on marking ‘floating wreckage’, taking into account existing IALA guidance (Task 5\*)

Task Leader: Jorge Teles Assistant Task Leader: Owen James

The WG finalised the draft Recommendation on the marking of drifting wreckage (ANM18/output/7), which will be sent to the Council for approval, together with the Nairobi International Convention on the Removal of Wrecks, 2007 (ANM18/output/8).

Action item

The Secretariat is requested to forward the draft Recommendation on the marking of drifting wreckage (ANM18/output/7) to the IALA Council, to approve.

The Secretariat is requested to forward the Nairobi International Convention on the Removal of Wrecks, 2007 (ANM18/output/8) to the IALA Council, for information.

## Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures (Task 12\*)

Task Leader: Mats Horstrom Assistant Task Leader: Raven Kurtz

The WG made an exhaustive review of this Recommendation assuring that the former Recommendations O-114, O-116, O-117 and O-131 were fully covered in the O-139. The draft update of Recommendation O-139 (ANM18/WG1/WP8) and a working document identifying areas in need of being addressed (ANM18/WG1/WP9) will be forwarded to ANM19 for further work.

Action Item

The IALA Secretariat is requested to forward ANM18/WG1/WP8 (New draft of Recommendation O-139) to ANM19.

The IALA Secretariat is requested to forward ANM18/WG1/WP9 (draft revised Recommendation O-139 - Enhanced Contents) to ANM19.

## Input Papers reviewed by Working Group 1

### 8.7.1 AtoN Metadata Product Specification.

* ANM18/8/12 Liaison note on AtoN Metadata Product Specification (from e-NAV11);
* ANM18/13/4 Draft S-100 GI Registry meeting report (from e-NAV11);
* ANM18/13/5 Liaison note on PS ownership and development (from e-NAV11);
* ANM18/13/6 AtoN Metadata Product Specification (from e-NAV11);
* ANM18/9/19 Liaison note on PS (from EEP);
* ANM18/9/20 AtoN Metadata Product Specification (from EEP);

The documents listed above were the object of analysis and a Liaison Note to PAP (ANM18/output/9) was produced, seeking clarification of the scope of the task regarding this subject.

Action item

The Secretariat is requested to forward the Liaison Note on clarification of the development responsibility of the AtoN Information Metadata Product Specification (ANM18/output/9) to PAP.

# Working Group 2 – Continuous Improvement (WG2)

The WG contained 22 members of whom 4 were attending an IALA Committee meeting for the first time. The WG was very productive producing 10 output papers to other Council and other Committees and 7 working papers for input to ANM19.

The WG commenced its work by reviewing the tasks assigned to WG2 and the related input papers submitted. The Chair and Vice-Chair provided clarification on what work needed to be completed at ANM 18. This included working papers for input to ANM19 and potential output papers (either Recommendations and Guidelines for Council approval or liaison notes to other Committees).

The Chair advised that a significant number of input papers had been received from EEP 18 just completed.

The Chair advised that the priority outputs for the WG2 at ANM 18 were to:

* Finalise for Council approval Task 11 – revised *Recommendation O-104, for Off Station Signals for Major Floating Aids to Navigation* and extended to considerations of *Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys*. An input paper from the EEP Committee needed to be taken into account.
* Finalise Task 14 - the draft new *Guideline on the use of audible signals as aids to navigation and on their future* taking into account the input paper from the EEP Committee.
* Achieve good progress on Task 6 - Co-ordinate *a limited review of the IALA NAVGUIDE* taking into account input received from the EEP and e-NAV Committees.
* Achieve good progress on Task 9 - *Develop guidance for AtoN Authorities on level of service and changing user requirement*; such as need for landfall lights and unlit AtoN.
* Commence work on Task 8 - *Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy*. Review IALA Guideline 1052.

The WG established new or reconvened existing specialist task groups, each with a dedicated Task Leader, to progress individual agenda Items. New task leaders were appointed for the following tasks to better balance workload:

* John Festarini (Task 9 - Develop guidance for AtoN Authorities on level of service and changing user requirement; such as need for landfall lights and unlit AtoN);
* Bjoern Erik Krosness (Task 7 - Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process).

## Co-ordinate a limited review of the IALA NAVGUIDE, to incorporate amended Recommendations and Guidelines and other necessary updates (Task 6)

Task Leader: John Festarini Drafting assistance provided by Martin Bransby, Johan Westerlund, Goffredo Monti and Marcello Tomassi,

The following input papers were provided:

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| ANM18/9/6 | Liaison note from e-NAV11 - the NAVGUIDE |
| ANM18/9/11 | Liaison Note - Aids to Navigation Guide (NAVGUIDE) 2014 |
| ANM18/9/12 | Review of sections 3.1 and 3.2 of the NAVGUIDE (from EEP) |
| ANM18/9/13 | Review of section 8.9 of the NAVGUIDE (from EEP) - Service Delivery |
| ANM18/9/14 | Review of section 8.11 of the NAVGUIDE (from EEP) - Preservation of Historic Aids to Navigation |

A number of sections were reviewed and edited as appropriate. The liaison notes from the other committees on content changes were reviewed and, as considered appropriate, reflected in the updated draft of the NAVGUIDE. The action plan for the revision of the NAVGUIDE was updated. Liaison notes were drafted to the EEP and e-NAV Committees.

Action items

The Secretariat is requested to forward the Liaison Note on the NAVGUIDE and Recommendation E-110 (ANM18/output/2) to the EEP Committee.

The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM18/output/10) to the e-NAV Committee.

The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM18/output/14) to all other Committees.

The Secretariat is requested to forward the NAVGUIDE Action Plan (ANM18/output/11) to all other Committees.

The Secretariat is requested to forward the NAVGUIDE Timetable (ANM18/output/12) to all other Committees for their information.

The Secretariat is requested to forward the draft revised NAVGUIDE (ANM18/WG2/WP1) to ANM19.

## Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process (Task 7\*)

Task Leader: Bjoern Erik Krosness Minsu Jeon, Aigars Gallis, Wenzhi Yang

The scope of this task is to:

* Ensure other IALA documentation that referenced the MBS has been updated as appropriate.
* Determine how best to provide guidance to IALA members on the various issues not able to be addressed in the MBS review process noting that the MBS itself was not being revised.

A scoping paper was developed to better articulate the task and the process to be undertaken noting that the task leaders and some members of the MBS Review Working Group are no longer attending ANM.

A working paper containing existing issues (as identified in the ANM task list in the ANM17 Report), conclusions of the 2008 stakeholder survey on the MBS and new issues submitted by Korea and China was compiled and work commenced on reviewing the issues.

Informal comments provided by Spain to ANM17 will also need to be reviewed in progressing this task.

Action item

The Secretariat is requested to forward the Scoping Paper (ANM18/WG2/WP2)) to ANM19.

The Secretariat is requested to forward the issues paper ‘Developing guidance on issues derived from revision of the MBS (ANM18/WG2/WP3) to ANM19.

## Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy. Review IALA Guideline 1052. (Task 8\*)

Task Manager: Gerry Brine Assistant Leader: David McGilvray

Progress on this task is tied to a large extent with the development of e-navigation and extent of work required on training guidance will be determined in conjunction with the IALA World Wide Academy. The work during ANM 18 was confined to reviewing amendments proposed by EEP to Guideline 1052 and Recommendation O-132. Discussion was held with the WWA Program Director about a suitable way forward for ANM working with the WWA in the development of training material.

The following input papers were received from EEP Committee:

|  |  |
| --- | --- |
| ANM18/9/16 | Revised IALA Guideline No. 1052 On Quality Management Systems for Aids to Navigation Service Delivery |
| ANM18/9/18 | IALA Recommendation O-132 On Quality Management for Aids to Navigation Authorities |

Action item

The Secretariat is requested to forward the revised draft guideline 1052 (ANM18/WG2/WP4) to ANM 19.

The Secretariat is requested to forward the revised Recommendation O-132 (ANM18/WG2/WP5) to ANM 19.

## Review and update Guideline 1004 for AtoN Authorities on level of service and changing user requirement; such as the need for landfall lights and unlit AtoN (Task 9\*)

Task Leader: John Festarini Task Group members: Bjoern Erik Krosness, Minsu Jeon, Ismo Kohonen, Johan Westerlund, Wenzhi Yang, Christian Kopp Pedersen

Only limited input was received in response to a request to IALA members to canvass their organisations and stakeholders on this topic.

The task group fundamentally restructured the approach to the guideline reflecting the discussions that were had at ANM17. As a result the draft guideline is now considered to achieve the high level focus on the issue of level of service and the planning and review statements and processes that enable Competent Authorities to determine appropriate levels of service.

The input from Spain was reviewed and while some comments were discarded, as they related to content that had been deleted from the draft. Other comments were reflected in the revised draft.

The following input papers were provided:

|  |  |
| --- | --- |
| ANM18/9/1 | Plan for review and update of guidance on level of service and changing user requirement |
| ANM18/9/2 | Reformatted Draft Revised IALA Guideline No. 1004 On Levels of Service |
| ANM18/9/2A | Original IALA Guideline No. 1004 On Levels of Service |
| ANM18/9/5 | Spanish comment on Draft Revised Guideline 1004 |

Action items

ANM members are requested to provide comments on the draft guideline and examples of level of service statements inter-sessionally by 30 September 2012, in time for consideration at ANM19.

The Secretariat is requested to forward the draft revised Guideline on levels of service (ANM18/WG2/WP6) to ANM19.

## Review IALA Recommendation O-104 of 1998, for off station Signals for Major Floating Aids to Navigation and extended to considerations of Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys (Task 11\*)

Task Leader: Robert Trainor

The following input papers were provided:

|  |  |
| --- | --- |
| ANM18/9/8 | Liaison note from EEP Committee on draft revised IALA Recommendation O-104 On ‘Off Station’ Signals for Major Floating Aids with EEP comments |
| ANM 8/9/9 | Draft revised IALA Recommendation O-104 On ‘Off Station’ Signals for Major Floating Aids with EEP comments |

The draft revised Recommendation was finalised after taking into account the input from EEP Committee, which was largely accepted. It is proposed that the term LANBY no longer be considered as a separate type of Large Navigational Buoy.

Action item

The Secretariat is requested to forward the draft revised Recommendation O-104 (ANM18/output/13) to Council for approval.

## Co-operate with the other committees in the project for AtoN Status / information exchange and associated metadata (Task 13\*)

Task Leader: Martin Bransby

The issue of AtoN information standards and the S-100 product specification to be included in the IHO Registry is being dealt with by WG 1. WG 2 was tasked to finalise the draft Guideline on Global Sharing of Maritime Data & Information developed in an IALA workshop in September 2011, taking into account input received from the e-NAV and VTS Committees.

The following input papers were received:

|  |  |
| --- | --- |
| ANM18/13/2 | Draft Guideline on Global Sharing of Maritime Data & Information |
| ANM18/13/7 | Liaison note from e-NAV Committee on Draft Guideline on Global Sharing of Maritime Data & Information |
| ANM18/13/8 | Liaison note from e-NAV Committee on Draft Guideline on Global Sharing of Maritime Data & Information |
| ANM18/13/9 | Draft Guideline on Global Sharing of Maritime Data & Information (with e-NAV amendments) |

The input papers were reviewed and an updated guideline prepared. Input from e-NAV and VTS Committees were largely accepted. Liaison notes to e-NAV Committee and the VTS Committee were prepared thanking them for their input and advising how their input had been dealt with in finalising the guideline.

Action items

The Secretariat is requested to forward the draft guideline on Global Sharing of Maritime Data & Information (ANM18/output/16) to Council for approval.

The Secretariat is requested to forward the Liaison Note on the Global Sharing of Maritime Data (ANM18/output/15) to the e-NAV and VTS Committees.

## Examine the use of Audible Signals as aids to navigation and develop an IALA Guideline on their future – in conjunction with the EEP Committee (Task 14\*)

Task Leader: Bob Trainor Assistant Task Leader: Arlindo Santos

The new Guideline is aimed providing enhanced information to IALA members and allowing the amount of detail in the NAVGUIDE to be significantly reduced.

The comments from the EEP Committee were reviewed and largely accepted.

Action items:

The Secretariat is requested to forward the draft Guideline on the use of Audible Signals as aids to navigation (ANM18/output/17) to Council, for approval.

## Review ANM Recommendations & Guidelines (Task 16\*)

Task Leader: John Festarini Assistant Task Leader:

This task involves undertaking a cyclical review of all ANM Guidelines and Recommendations during each 4-year work programme. Specific document reviews already in the work programme form part of the performance of this task.

An updated plan for the review of ANM Recommendations and Guidelines was produced.

Action item

The Secretariat is requested to forward ANM18/WG2/WP7 (Documents Managed by ANM) to ANM 19.

## Develop a supplementary Guideline to 1058 providing technical detail for simulator providers and procurers of simulation to ensure appropriate components and quality for AtoN features (Task 18\*)

Task Leader: Cathrine Steenberg Assistant Task Leader: Peter Jensen Schjedal

The following input papers were received:

|  |  |
| --- | --- |
| ANM18/9/5 | Technical Features and Visualisation Technology Relevant for Simulation of AtoN |
| ANM18/9/9 | Liaison note from EEP on Simulation in the Design of AtoN |

The task group made excellent progress on this task, which is due to be completed at ANM 19.

The task group reviewed the liaison note from EEP and the comments were largely taken into account in revising the draft Guideline. The task group felt that a ‘face to face’ inter-sessional meeting should take place with an EEP representative (Malcolm Nicholson) in Copenhagen in June 2012 to progress the draft guideline. A liaison note to EEP Committee proposing this approach was prepared.

Action item

The Secretariat is requested to forward the Liaison Note on Simulation in the Design of AtoN (ANM18/output/18) to EEP19.

The Secretariat is requested to forward the draft Guideline on Technical Features and Technology Relevant for Simulation of AtoN (ANM18/output/19) to EEP19.

The Chairman is requested to provide a brief, supporting the request for approval for a ‘face to face’ inter-sessional meeting, to the Secretary-General.

## Other matters

The WG also reviewed the following additional and information papers:

|  |  |  |
| --- | --- | --- |
| Paper # | Topic | Proposed action |
| ANM18/13/1 | What is a major light – some research was done on the basis for various criteria being used for major lights e.g. 15nm and 10nm (USCG). IALA questionnaire refers to 10nm. IALA categorisation is most relevant for AtoN authorities. Charting authorities will need to determine appropriate portrayal. Provision of categorisation data to HOs prior to S-100 product specification for AtoN information being established would be problematic. | Discuss in plenary before preparing a letter from IALA to IHO |
| Various | Global sharing of maritime data | Dealt with under Task 13 |
| ANM18/9/4 | Liaison Note to EEP - Design of Daymarks in Aids to Navigation. The draft ANM liaison note to EEP was informally input inter-sessionally to EEP 18. The revised Working Paper was reviewed and this new version addresses many of the concerns that ANM had with the previous draft. However an additional issue regarding visibility in areas where with high tidal ranges has been raised by Korea. The draft liaison note will be revised inter-sessionally by Minsu Jeon and Johan Westerlund in conjunction with WG 2 chairs and submitted as an input to EEP19. | Requires Inter-sessional work on liaison note to EEP 19 |
| ANM18/13/3 | Further guidance on the use of daymarks – Progress was limited on dealing with the input papers from EEP due to the unexpected absence of Hendrik Eustarbarkey, who had been working on this subject in both ANM and EEP. | Address at ANM19 |
| ANM/INF/6 | ENVISIA – A Scalable Archiving System For AIS Data Storage | Noted in relation to Task 13 |

The Working Group Chair and Vice Chair sincerely thank all of the members of WG 2 for their excellent cooperation and effort at ANM 19 and in particular the task leaders.

# Develop a Recommendation for navigational safety matters within Marine Spatial Planning (Task 15\*)

Planning was carried out by the Chairman and Vice Chairman. A draft budget and brochure were prepared for use by the workshop steering group and a draft technical programme (ANM18/C&VC/WP1) was produced.

A questionnaire was developed (ANM18/C&VC/WP3) and reviewed in plenary. Suggestions were made for its amendment. These included:

* mitigation – include DGNSS / racon;
* include a section on transition from construction to operation, including transfer of responsibility;
* include a section on environmental impact analysis;
* seek information on proximity to shipping lanes and safe distances being used;
* under compliance, state precisely what the compliance refers to.

Following the discussion, the Chairman asked that all Committee members review the questionnaire and make comment to him by 31 July, 2012. In the light of comment received, the questionnaire would be revised by the Chairman and Vice Chairman and then issued to IALA members and other interested authorities.

Action item

ANM Committee members are requested to review the draft Marine Spatial Planning questionnaire (ANM18/C&VC/WP3) comment to the Chairman by 31 July, 2012.

# Future Work Programme (2014 – 2018)

The Chairman and Vice Chairman had drafted a set of proposals (ANM18/C&VC/WP2). The Chairman ran through the proposals, indicating the thinking behind each item. Additional items, mentioned by the Committee members were discussed and added, after which the Chairman, pointed out that ANM19 would be held after the meeting at which these strategy / task items would be discussed. He, therefore, asked that Committee members review the revised proposals and comment to him by 31 July 2012.

Action item

ANM Committee members are requested to comment to the Chairman on draft proposals for the 2014 – 208 Work programme (ANM18/C&VC/WP2) by 31 July 2012.

# Review of output and working papers

WG Chairmen outlined the work undertaken and both expressed their thanks to their WG members for much hard work and the progress made. The output and working papers were reviewed and their disposition agreed.

# Any Other Business

The Chairman ran through the papers associated with Any Other Business and drew attention to the Working groups to which they had been allocated.

## What is a major light (in the context of charting)? (WG2)

ANM18/13/1 refers. Also see comment under agenda item 9.10.

There was a wide ranging discussion about the issues involved in answering the IHO / UKHO query, following which the Chair of WG2 drafted a Liaison Note to the IHO (ANM18/output/20), for Council approval.

Points arising from the discussion were:

* the query essentially deals with a charting issue;
* nations use different nominal ranges when determining ‘major lights’;
* is there a need to differentiate between ‘major’ and ‘minor’ lights?
* the range of a light is not necessarily a measure of its importance;
* the mariner is interested in what he / she can see;
* IALA does not use the term ‘major’ or ‘minor’ light but uses categorisation;
* categorisation is an operations management tool and not a measure for use in the portrayal of AtoN;
* categorisation will mean nothing to the mariner and nor should it;
* we are at a transition point between paper charts and electronic systems;
* some mariners are known to be filtering out the wrong information from their electronic systems;
* for the moment, we should maintain the status quo.

The draft Liaison Note was reviewed and modified in plenary and then approved for release to the Council.

Action

The Secretariat is requested to forward the Liaison Note on ‘What is a major light’ (ANM18/output/20) to the Council, for approval.

If approved, the Secretariat is requested to forward the Liaison Note on ‘What is a major light’ (ANM18/output/20) to the IHO.

## Draft Guideline on the Global Sharing of Maritime Data (WG2)

ANM18/13/2, ANM18/13/7, ANM18/13/8 and ANM18/13/9 refer.

The draft Guideline was completed (ANM18/output/6) and is to be forwarded to Council for approval. See agenda item 9.6 for action.

## Further guidance on the use of daymarks (WG2)

ANM18/13/3 refers.

This issue was covered under section 10.6.

## IHO Registry (S-100 GI Registry) (WG1)

ANM18/13/4 refers

This issue was covered in section 8.7.

## PIANC WG161 (WG2)

The PIANC WG has not yet met but a report is expected at ANM19.

## Applications of AtoN within marine spatial planning workshop

See comment under agenda item 10.

## ANM19

ANM18/INF/3 & ANM18/INF/4 refer.

Gerry Brine said that attendance is expected from the Asia – Pacific Region, including some members who do not normally get the chance to travel to meetings at IALA. Interesting and relevant technical visits have been arranged. Given the anticipated temperature, it was agreed that daily working dress would be open neck shirts.

## Proposals for new Work Items

In considering the implications of the work required to assist in participation of the IHO registry and the need to formalise an update of the IALA Annual Questionnaire, requests for two new work items (ANM18/output/3 & ANM18/output/4) were prepared by the Chairman and Vice Chairman.

Action item

The Secretariat is requested to forward ANM18/output/3 (IHO Registry work item request) to the Council for approval.

The Secretariat is requested to forward ANM18/output/4 (Annual Questionnaire work item request) to the Council for approval.

## Workshops & seminars

Due to the lack of clarity concerning the development of e-Navigation and AIS Aton in particular, it was agreed that a proposed Workshop on AIS AtoN, currently planned for January 2013 would not prove useful. It was decided that this workshop be deferred until the next Work Programme (2014 – 2018) in anticipation of firmer ground on which to base it.

# Date and venue for next meeting

It is intended that ANM19 will meet between 11 and 16 November 2012, in Brisbane (see papers ANM18/INF/3 & ANM18/INF/4).

# Review of session report

The report was reviewed and then approved by the Committee.

Action item

The Secretariat is requested to forward ANM18/output/1 (Report of ANM18) to the Council for approval.

# Closing of the Meeting

The Secretary-General apologised for his absences during the week at the quinquennial meeting of the IHO Conference and for the poor weather. He remarked that IALA is becoming busier and particularly cited the World-Wide Academy and its tin tasks of training and capacity building. He also mentioned that IMO is impressed with IALA’s work and outputs and is now taking an interest in the regular Risk Management seminars and capacity building activities. It was also noticeable that new members of IALA are becoming more actively involved.

Work continues to improve the support provided by the Secretariat, together with a planned overhaul of the website and gradually improving IT. IALA is also facing a busy workshop / seminar programme between now and the end of 2013, in which ANM has its own interests.

The Secretary-General concluded by thanking everyone for a productive and hard week’s work and congratulating WG2 for its win in the Committee’s regular football match.

Noting that it had been a successful and very productive week the Chairman thanked all ANM Committee members for their hard work, which had produced yet another impressive output. He said that he very much appreciated the positive approach taken at the meeting. He also noted that it had not lost sight of the important social element of the meeting. Finally, thanks were expressed to the Secretary and the IALA staff for their cheerful and efficient support.

A special thanks was given to Victor Placido da Conceicao for all his contributions over a number of years and he was wished well with his forthcoming frigate command. There were also congratulations for Jean-Luc, on his birthday.

There being no further business, the Chairman then wished everyone a safe journey home and wished everyone well for the coming months before declaring the meeting closed.

Following the meeting there was a group visit to the Lighthouse Exhibition in the National Maritime Museum, in Paris.

# List of Annexes

1. Agenda

A copy of the agenda is at Annex A.

1. Participants

A list of participants is at Annex B.

1. Working Group Participants

A list of working group participants is at Annex C.

1. Input Papers

A list of input papers is at Annex D.

1. Output and Working papers

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

1. Action Items

A list of action items is at Annex F.

1. Revision of the Work Programme

An updated ANM Committee Work Programme for 2010-2014 is at Annex G.

Changes proposed at ANM18 have been highlighted.

1. ANM18 Committee Agenda

**18th Meeting of the Aids to Navigation Management Committee**

The 18th meeting of the **ANM Committee** will be held from 23 - 27 April, 2012, at IALA.

The opening plenary will commence at 1400 on Monday, 23 April, 2012, and the closing plenary will end at approximately 1300 on Friday, 27 April, 2012.

Committee Chair, Vice-Chair and working group Chairpersons are requested to meet at 1000 on Monday, 23 April, 2012.

Work items / Tasks being addressed during this meeting are listed in the final table of Annex G of the report of the previous meeting, which was included in the initial invitation to this meeting.

Changes from ANM17.

**AGENDA**

1. Approval of the agenda
2. Review of action items from last meeting
3. Review of input papers
4. Reports from other bodies:
   1. IALA Council – 52nd Session, December 2011
   2. PAP22 – October 2011
   3. Report of COMSAR16
5. Report from rapporteurs:
   1. Risk Management and Risk Models (M1\*)
   2. IALA Questionnaire (M2\*)
   3. Offshore manmade structures (OREI) (M3\*)
   4. Development of e-Navigation within AtoN Authorities (M4\*)
   5. Development of e-Navigation for AtoN users (M5\*)
   6. Development of mobile marine products for AtoN users (M6\*)
6. Presentations:
   1. Brief on WWA Stephen Bennett
   2. Marine spatial planning Ernst Bolt
7. Establish Working Groups
8. Working Group 1 – Navigational Requirements
   1. Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth. (Task 1\*)
   2. Develop Recommendations on AtoN standards and navigational requirements in risk control measures included in e-Navigation (this would include a revision (or a replacement) of the existing Recommendations and Guideline on risk management (1018)). (Task 2\*)
   3. Develop guidance on the application of maritime surface picture (e.g. AIS traffic data) for analysis in risk assessment and the provision of Aids to Navigation (Task 3\*)
   4. Review and update guidance for AtoN Authorities, including Guideline 1062, in the use of Virtual Aids to Navigation assessing their use and contribution to safety of navigation (Task 4\*)
   5. Consider the IMO Wreck Removal Convention and its implications for AtoN Authorities and States. Develop a Recommendation for IALA Members including guidance on marking ‘floating wreckage’, taking into account existing IALA guidance (Task 5\*)
   6. Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures (Task 12\*)
9. Working Group 2 – Continuous Improvement
   1. Co-ordinate a limited review of the IALA NAVGUIDE to incorporate amended IALA Recommendations and Guidelines and other necessary updates (Task 6\*)
   2. Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process (Task 7\*)
   3. Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy. Review IALA Guideline 1052 (Task 8\*)
   4. Review and update guidance for AtoN Authorities on level of service and changing user requirement; such as need for landfall lights and unlit AtoN (Task 9\*)
   5. Develop and update of IALA Recommendation O-113 on the Marking of fixed bridges over navigable waters, also considering the marking of overhead power lines (Task 10\*)
   6. Review IALA Recommendation O-104 of 1998, for off station Signals for Major Floating Aids to Navigation and extended to considerations of Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys (Task 11\*)
   7. Co-operate with the other committees in the project for AtoN Status / information exchange and associated metadata (Task 13\*)
   8. Examine the use of Audible Signals as aids to navigation and develop an IALA Guideline on their future – in conjunction with the EEP Committee (Task 14\*)
   9. Review ANM Recommendations & Guidelines for updating (Task16\*)
   10. Update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning (Task17\*)
   11. Develop a supplementary Guideline to 1058 providing technical detail for simulator providers and procurers of simulation to ensure appropriate components and quality for AtoN features (Task 18\*)
   12. Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation (Task 19\*)
10. Develop a Recommendation for navigational safety matters within Marine Spatial Planning (Task 15\*)
11. Future Work Programme (2014 – 2018)
12. Review of output and working papers
13. Any Other Business
    1. What is a major light (in the context of charting)? (WG2)
    2. Draft Guideline on the Global Sharing of Maritime Data (WG2)
    3. Further guidance on the use of daymarks (WG2)
    4. IHO Registry (S-100 GI Registry) (WG1)
    5. PIANC WG161
    6. Applications of AtoN within marine spatial planning workshop
    7. ANM19
    8. Proposed new work items
    9. Workshops / seminars
14. Date and venue of next meeting
15. Review of session report

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|  |  |  |
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1. Continuous Improvement

|  |  |  |
| --- | --- | --- |
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|  | Gerry Brine (Chairman) | AMSA / Australia |
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1. List of input papers

All papers are posted on the FTP server

Items highlighted are not on the Committee website.

1. Approval of the agenda

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Title / Author (if required) | Presented by: | Posting |
| ANM18/1/1 rev2 | Agenda | Phil Day (PD) | 3 |
| ANM18/1/2 | Programme for week (to be issued after the Chairman’s Meeting) | PD | At meeting |

1. Review of action items from last meeting

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Title / Author (if required) | Presented by: | Posting |
| ANM18/2/1 | Action Items from ANM17 | PD/TCM | 1 |
| ANM18/2/1 rev1 | Action Items from ANM17 | PD/TCM | 2 |

1. Review of input papers

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Title / Author (if required) | Presented by: | Posting |
| ANM18/3/1 rev7 | List of Input Papers (this will be finalised after the Chairman’s Meeting) | PD/TCM | At meeting |

1. Reports from other bodies

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Title / Author (if required) | Presented by: | Posting |
| ANM18/4/1 | IALA COUNCIL 52nd Session | TCM | 2 |
| ANM18/4/2 | PAP22 report | PD | 1 |
| ANM18/4/3 | COMSAR 16 report | TCM | 3 |

1. Reports from rapporteurs

| Number | Title / Author (if required) | Rapporteur | Posting |
| --- | --- | --- | --- |
| ANM18/5/ | Risk Management and Risk Models (M1) | Jakob Bang |  |
| ANM18/5/ | IALA Questionnaire (M2) | Jorge Teles |  |
| ANM18/5/ | Offshore manmade structures (OREI) (M3) | Raven Kurtz |  |
| ANM18/5/ | Development of e-Navigation within AtoN Authorities (M4) | Gerry Brine |  |
| ANM18/5/ | Development of e-Navigation for AtoN users (M5) | Rob McCabe |  |
| ANM18/5/ | Development of mobile marine products for AtoN users (M6) | Marek Ledochowski |  |

1. Presentations

| Number | Title / Author (if required) | WG | Posting |
| --- | --- | --- | --- |
| ANM18/6/1 | WWA Brief | 1,2 | 3 |

1. Establish Working Groups
2. Working Group 1 – Navigational Requirements
   1. Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth (Task 1)
   2. Develop Recommendations on AtoN standards and navigational requirements in risk control measures included in e-Navigation (this would include a revision (or a replacement) of the existing Recommendations and Guideline on risk management (1018). (Task 2\*)
   3. Develop guidance on the application of maritime surface picture (e.g. AIS traffic data) for analysis in risk assessment and the provision of Aids to Navigation (Task 3\*)
   4. Develop guidance for AtoN Authorities in the use of Virtual Aids to Navigation assessing their use and contribution to safety of navigation (Task 4\*)
   5. Consider the IMO Wreck Removal Convention and its implications for AtoN Authorities and States. Develop a Recommendation for IALA Members including guidance on marking ‘floating wreckage’, taking into account existing IALA guidance (Task 5\*)
   6. Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures (Task 12\*)

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| --- | --- | --- | --- |
| Number | Title / Author (if required) | WG | Posting |
| ANM18/8/1 | Task 2 Risk Management | 1 | 1 |
| ANM18/8/2 | Task 2 1018 Ed3 Risk Management - Dec2008 | 1 | 1 |
| ANM18/8/3 | Task 3 Draft Guideline on AIS Analysis | 1 | 1 |
| ANM18/8/4 | Task 3 Maximizing the Potential of AIS | 1 | 1 |
| ANM18/8/5 | Task 4 Guideline 1062 Annex 1 - rev October 2011 | 1 | 1 |
| ANM18/8/6 | Task 4 O-143 Ed1 Virtual AtoN Review – October 2011 | 1 | 1 |
| ANM18/8/7 | Task 5 Recommendation on the marking of wrecks | 1 | 1 |
| ANM18/8/8 | Task 6 Review Recommendation O-139 | 1 | 1 |
| ANM18/8/9 | Comments about PIANC documents | 1 | 1 |
| ANM18/8/10 | Request for revision of IALA Guidelines from Korea | 1 | 1 |
| ANM18/8/11 | Task 1 Draft Guideline on User Requirements and Practical Applications of e-Navigation from Berth to Berth | 1 | 1 |
| ANM18/8/12 | Liaison note from e-NAV - AtoN Information - draft Product Specification  Development of policy and new symbols for AIS AtoN (NAV58/7) (see ANM18/8/15) | 1  1 | 3  3 |
| ANM18/8/13 | Liaison Note from e-NAV on Plan for AIS and VDE | 1 | Late |
| ANM18/8/14 | Report of IMO Correspondence Group on AIS-AtoN | 1 | 4 |
| ANM18/8/15 | Development of policy and new symbols for AIS AtoN (NAV58/7) | 1 | Late |
| ANM18/8/16 | Review of IALA Recommendation O-139 on the Marking of Man-made Offshore structures - NCA | 1 | Late |

1. Working Group 2 – Continuous Improvement
   1. Co-ordinate a limited review of the IALA NAVGUIDE to incorporate amended IALA Recommendations and Guidelines and other necessary updates (Task 6\*)
   2. Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process (Task 7\*)
   3. Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy. Review IALA Guideline 1052. (Task 8\*)
   4. Develop guidance for AtoN Authorities on level of service and changing user requirement; such as need for landfall lights and unlit AtoN (Task 9\*)
   5. Develop and update of IALA Recommendations O-113 on the Marking of fixed bridges over navigable waters, also considering the marking of overhead power lines (Task 10\*)
   6. Review IALA Recommendation O-104 of 1998, for off station Signals for Major Floating Aids to Navigation and extended to considerations of Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys (Task 11\*)
   7. Co-operate with the other committees in the project for AtoN Status / information exchange and associated metadata (Task 13\*)
   8. Examine the use of Audible Signals as aids to navigation and develop an IALA Guideline on their future – in conjunction with the EEP Committee (Task 14\*)
   9. Review ANM Recommendations & Guidelines for updating (Task16\*)
   10. Update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning (Task17\*)
   11. Develop a supplementary Guideline to 1058 providing technical detail for simulator providers and procurers of simulation to ensure appropriate components and quality for AtoN features (Task 18\*)
   12. Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation (Task 19\*)

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| --- | --- | --- | --- |
| Number | Title / Author (if required) | WG | Posting |
| ANM18/9/1 | Level of Service Review plan | 2 | 1 |
| ANM18/9/2 | Reformatted Draft revised Guideline on Levels of Service | 2 | 1 |
| ANM18/9/2A | Original Draft revised Guideline on Levels of Service | 2 | 1 |
| ANM18/9/3 | Documents Managed by ANM | 2 | 1 |
| ANM18/9/4 | Liaison Note to EEP on the design of Daymarks | 2 | 1 |
| ANM18/9/5 | Spanish comment on draft revised Guideline 1004 | 2 | 2 |
| ANM18/9/6 | Liaison note from e-NAV11 - the NAVGUIDE | 2 | 3 |
| ANM18/9/7 | Liaison Note from EEP on Audible Signals | 2 | Late |
| ANM18/9/8 | Liaison Note from EEP on Off Station Signals | 2 | Late |
| ANM18/9/9 | Draft revised Recommendation O-104 EEP comments | 2 | Late |
| ANM18/9/10 rev1 | Liaison Note from EEP on Simulation in the Design of AtoN | 2 | Late |
| ANM18/9/11 | Liaison Note from EEP on the NAVGUIDE Update | 2 | Late |
| ANM18/9/12 | NAVGUIDE review of sections 3.1 and 3.2 - edited | 2 | Late |
| ANM18/9/13 | Revised NAVGUIDE input on Service Delivery | 2 | Late |
| ANM18/9/14 | Revised NAVGUIDE input on Preservation of Historic Aids to Navigation | 2 | Late |
| ANM18/9/15 | Liaison Note from EEP - Review of Guideline 1052 | 2 | Late |
| ANM18/9/16 | Revised IALA Guideline 1052\_QMS for AtoN Service Delivery | 2 | Late |
| ANM18/9/17 | Liaison Note from EEP - Review of Recommendation O-132 | 2 | Late |
| ANM18/9/18 | Revised IALA Recommendation O-132 on Quality Management | 2 | Late |

1. Develop a Recommendation for Marine Spatial Planning with emphasis on Navigational safety (Task 15\*)

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| --- | --- | --- | --- |
| Number | Title / Author (if required) | WG | Posting |
| ANM18/10/1 |  |  |  |

1. Future Work Programme

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Title / Author (if required) | WG | Posting |
| ANM18/11/1 |  |  |  |

1. Review of output and working papers
2. Any Other Business
   1. What is a major light
   2. Draft Guideline on the Global Sharing of Maritime Data
   3. Further guidance on the use of daymarks
   4. IHO Registry (S-100 GI Registry)
   5. PIANC WG161
   6. Applications of AtoN within marine spatial planning workshop
   7. ANM19

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| --- | --- | --- | --- |
| Number | Title / Author (if required) | WG | Posting |
| ANM18/13/1 | What is a major light | 2 | 1 |
| ANM18/13/2 | Draft Guideline on Global Sharing of Maritime Data | 2 | 1 |
| ANM18/13/3 | Further guidance on the use of daymarks | 2 | 2 |
| ANM18/13/4 | Draft S-100 GI Registry meeting report | 1 | 2 |
| ANM18/13/5 | Liaison note on Product Specification ownership and development | 1 | 2 |
| ANM18/13/6 | AtoN Metadata Product Specification | 1 | 2 |
| ANM18/13/7 | Liaison Note on draft GSMD Guideline from VTS34 | 2 | 3 |
| ANM18/13/8 | Liaison note from e-NAV11 on GSMD Guideline | 2 | 3 |
| ANM18/13/9 | Draft revised GSMD Guideline (28Sep11) | 2 | 3 |

**Information Papers**

|  |  |  |
| --- | --- | --- |
| **Number** | **Title / Author (if required)** | **Posting** |
| ANM18/INF/1 | Developing an e-navigation Mindset – presentation by Andy Norris | 1 |
| ANM18/INF/2 | Meeting dates 2012 - 2014 post Council 52 | 2 |
| ANM18/INF/3 | Information Paper about ANM19 | 3 |
| ANM18/INF/4 | Programme for ANM19 | 3 |
| ANM18/INF/5 | Liaison Note to IHO on Applications to Participate in the IHO Registry | 3 |
| ANM18/INF/6 | ENVISIA GSMD paper - a scalable archiving system for AIS data storage | 3 |

1. Date and venue of next meeting
2. Review of session report
3. List of Output and Working Papers

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

|  |  |  |
| --- | --- | --- |
| **Number** | **Title** | **Status** |
| ANM18/output/1 | Draft Report | To Council to note |
| ANM18/output/2 | Liaison note to EEP on updating the NAVGUIDE reflecting changes in E 110.doc | To EEP19 |
| ANM18/output/3 | Request for a new work item - IHO registry | To Council to approve |
| ANM18/output/4 | Request for a new work item - Annual Questionnaire | To Council to approve |
| ANM18/output/5 | Liaison note from ANM to VTS & e-NAV Committees on the Risk Management Guideline | To VTS35 & e-NAV12 |
| ANM18/output/5A | Draft Revised Guideline 1018 Ed3 Risk Management – with track changes | To VTS35 & e-NAV12 |
| ANM18/output/6 | Draft Comment Paper for NAV58 | To Council to approve by e-mail |
| ANM18/output/7 | Draft Recommendation on the marking of wrecks | To Council to approve |
| ANM18/output/8 | The Nairobi International Convention on the Removal of Wrecks, 2007 | To Council for information |
| ANM18/output/9 | Liaison note to PAP on AtoN metadata Product Specification | To PAP23 |
| ANM18/output/10 | Liaison note to the e-NAV Committee on the NAVGUIDE | To e-NAV12 |
| ANM18/output/11 | NAVGUIDE 2014 Review Plan | To VTS35, e-NAV12 & EEP19 |
| ANM18/output/12 | NAVGUIDE 2014 Timetable | To VTS35, e-NAV12 & EEP19 |
| ANM18/output/13 | draft revised Recommendation O-104 on ‘Off Station’ Signals for Major Floating Aids | To Council to approve |
| ANM18/output/14 | Liaison Note on the Aids to Navigation Guide (NAVGUIDE) Review | To VTS35, e-NAV12 & EEP19 |
| ANM18/output/15 | Liaison Note to all other committees on the draft GSMD guideline | To VTS35, e-NAV12 & EEP19 |
| ANM18/output/16 | draft Guideline on GSMD | To Council to approve |
| ANM18/output/17 | draft Guideline on Audible Signals | To Council to approve |
| ANM18/output/18 | Liaison Note to EEP on Simulation in the Design of AtoN | To EEP19 |
| ANM18/output/19 | Draft Guideline on Technical Features and Technology Relevant for Simulation of AtoN | To Council to approve |
| ANM18/output/20 | Draft Liaison Note to the IHO – major lights | To Council to approve |

Working papers are documents that will remain within the Committee for further review.

|  |  |  |
| --- | --- | --- |
| Number | Title | Status |
| ANM18/WG1/WP1 | Task 1 Draft Guideline on User Requirements and Practical Applications of e-Navigation from Berth to Berth | To ANM19 |
| ANM18/WG1/WP2 | Task 2 1018 Ed3 Risk Management Dec2008 | To ANM19 |
| ANM18/WG1/WP3 | Task 3 Draft Guideline on AIS Analysis | To ANM19 |
| ANM18/WG1/WP4 | Task 3 Maximizing the Potential of AIS | To ANM19 |
| ANM18/WG1/WP5 | Task 3 OREI - Widths of transit corridors | To ANM19 |
| ANM18/WG1/WP6 | Task 4 Guideline1081 Ed1 Virtual AtoN | To ANM19 |
| ANM18/WG1/WP7 | Task 4 Recommendation O-143 Ed1 Virtual AtoN review | To ANM19 |
| ANM18/WG1/WP8 | Task12 New draft of Recommendation O-139 | To ANM19 |
| ANM18/WG1/WP9 | Task 12 draft revised Recommendation O-139 - Enhanced Contents | To ANM19 |
|  |  |  |
| ANM18/WG2/WP1 | Updated NAVGUIDE 2010 | To ANM19 |
| ANM18/WG2/WP2 | Scoping paper - MBS issues | To ANM19 |
| ANM18/WG2/WP3 | MBS Issues | To ANM19 |
| ANM18/WG2/WP4 | Draft revised IALA Guideline 1052 on QMS for AtoN Service Delivery | To ANM19 |
| ANM18/WG2/WP5 | Draft revised IALA Recommendation O-132 on Quality Management | To ANM19 |
| ANM18/WG2/WP6 | Draft revised Guideline 1004 on Level of Service | To ANM19 |
| ANM18/WG2/WP7 | Documents Managed by ANM | To ANM19 |
|  |  |  |
| ANM18/C&VC/WP1 | Draft technical programme for the Workshop on The Application of AtoN within Marine Spatial Planning | To ANM19 |
| ANM18/C&VC/WP2 | Proposals for 2014-2018 Work Programme | To ANM19 |
| ANM18/C&VC/WP3 | MSP workshop questionnaire | To ANM19 |

1. Action Items

Action Items for Secretariat

1. The IALA Secretariat is requested to forward ANM18/WG1/WP1 (Draft Guideline on User Requirements and Practical Applications of e-Navigation from Berth to Berth) to ANM19. 9
2. The Secretariat is requested to forward ANM18/WG1/WP2 (1018 Ed3 Risk Management) to ANM19. 10
3. The Secretariat is requested to forward the Liaison Note on draft Revised IALA Guideline 1018 On Risk Management (ANM18/output/5 to the e-NAV and VTS Committees.) 10
4. The Secretariat is requested to forward the commented on draft Revised IALA Guideline 1018 (ANM18/output/5A) to the e-NAV and VTS Committees. 10
5. The Secretariat is requested to forward ANM18/WG1/WP3 (Draft Guideline on AIS Analysis) to ANM19. 10
6. The Secretariat is requested to forward ANM18/WG1/WP4 (Maximizing the Potential of AIS) to ANM19. 10
7. The Secretariat is requested to forward ANM18/WG1/WP5 (OREI - Widths of transit corridors) to ANM19. 10
8. The IALA Secretariat is requested to forward ANM18/WG1/WP6 (Guideline1081 Ed1 Virtual AtoN) to ANM19. 10
9. The IALA Secretariat is requested to forward ANM18/WG1/WP7 (Recommendation O-143 Ed1 Virtual AtoN review) to ANM19. 10
10. The Secretariat is requested to forward the draft Comment Paper for NAV 58 on IALA’s views on AIS aids to navigation (ANM18/output/6) to Council, for approval, by e-mail (Deadline for IMO is 11 May 2012). 10
11. If approved, the Secretariat is requested to forward the draft Comment Paper for NAV 58 on IALA’s views on AIS aids to navigation (ANM18/output/6) to NAV58. 10
12. The Secretariat is requested to forward the draft Recommendation on the marking of drifting wreckage (ANM18/output/7) to the IALA Council, to approve. 11
13. The Secretariat is requested to forward the Nairobi International Convention on the Removal of Wrecks, 2007 (ANM18/output/8) to the IALA Council, for information. 11
14. The IALA Secretariat is requested to forward ANM18/WG1/WP8 (New draft of Recommendation O-139) to ANM19. 11
15. The IALA Secretariat is requested to forward ANM18/WG1/WP9 (draft revised Recommendation O-139 - Enhanced Contents) to ANM19. 11
16. The Secretariat is requested to forward the Liaison Note on clarification of the development responsibility of the AtoN Information Metadata Product Specification (ANM18/output/9) to PAP. 11
17. The Secretariat is requested to forward the Liaison Note on the NAVGUIDE and Recommendation E-110 (ANM18/output/2) to the EEP Committee. 12
18. The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM18/output/10) to the e-NAV Committee. 12
19. The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM18/output/14) to all other Committees. 12
20. The Secretariat is requested to forward the NAVGUIDE Action Plan (ANM18/output/11) to all other Committees. 13
21. The Secretariat is requested to forward the NAVGUIDE Timetable (ANM18/output/12) to all other Committees for their information. 13
22. The Secretariat is requested to forward the draft revised NAVGUIDE (ANM18/WG2/WP1) to ANM19. 13
23. The Secretariat is requested to forward the Scoping Paper (ANM18/WG2/WP2)) to ANM19. 13
24. The Secretariat is requested to forward the issues paper ‘Developing guidance on issues derived from revision of the MBS (ANM18/WG2/WP3) to ANM19. 13
25. The Secretariat is requested to forward the revised draft guideline 1052 (ANM18/WG2/WP4) to ANM 19. 14
26. The Secretariat is requested to forward the revised Recommendation O-132 (ANM18/WG2/WP5) to ANM 19. 14
27. The Secretariat is requested to forward the draft revised Guideline on levels of service (ANM18/WG2/WP6) to ANM19. 14
28. The Secretariat is requested to forward the draft revised Recommendation O-104 (ANM18/output/13) to Council for approval. 15
29. The Secretariat is requested to forward the draft guideline on Global Sharing of Maritime Data & Information (ANM18/output/16) to Council for approval. 15
30. The Secretariat is requested to forward the Liaison Note on the Global Sharing of Maritime Data (ANM18/output/15) to the e-NAV and VTS Committees. 15
31. The Secretariat is requested to forward the draft Guideline on the use of Audible Signals as aids to navigation (ANM18/output/17) to Council, for approval. 15
32. The Secretariat is requested to forward ANM18/WG2/WP7 (Documents Managed by ANM) to ANM 19. 15
33. The Secretariat is requested to forward the Liaison Note on Simulation in the Design of AtoN (ANM18/output/18) to EEP19. 16
34. The Secretariat is requested to forward the draft Guideline on Technical Features and Technology Relevant for Simulation of AtoN (ANM18/output/19) to EEP19. 16
35. The Secretariat is requested to forward the Liaison Note on ‘What is a major light’ (ANM18/output/20) to the Council, for approval. 18
36. If approved, the Secretariat is requested to forward the Liaison Note on ‘What is a major light’ (ANM18/output/20) to the IHO. 18
37. The Secretariat is requested to forward ANM18/output/3 (IHO Registry work item request) to the Council for approval. 19
38. The Secretariat is requested to forward ANM18/output/4 (Annual Questionnaire work item request) to the Council for approval. 19
39. The Secretariat is requested to forward ANM18/output/1 (Report of ANM18) to the Council for approval. 19

Action Items for Members

1. Members are requested to provide relevant input to the Committee rapporteurs 8 weeks before each meeting. 8
2. ANM members are requested to provide comments on the draft guideline and examples of level of service statements inter-sessionally by 30 September 2012, in time for consideration at ANM19. 14
3. The Chairman is requested to provide a brief, supporting the request for approval for a ‘face to face’ inter-sessional meeting, to the Secretary-General. 16
4. ANM Committee members are requested to review the draft Marine Spatial Planning questionnaire (ANM18/C&VC/WP3) comment to the Chairman by 31 July, 2012. 17
5. ANM Committee members are requested to comment to the Chairman on draft proposals for the 2014 – 208 Work programme (ANM18/C&VC/WP2) by 31 July 2012. 17
6. Revision of the ANM Work Programme

Approved by the IALA Council – December 2009

(Changes made/suggested at ANM18 are highlighted in yellow)

The ANM Committee deals with high level management aspects of AtoN. In the work of the Committee, the following general aspects are to be taken into consideration:

* Strategic focus for IALA;
* Harmonized use of Definitions and Terms; and
* Concepts associated with Risk Assessment / Management.

Work Programme 2010 – 2014

| Task | Estimated number of sessions | Comments | Strategy element(s) |
| --- | --- | --- | --- |
| 1. Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth. | 1 - 7 | *ANM take the lead.*  *Together with e-NAV & VTS Committees & derived from IMO e-Navigation Strategy.* | *5.6, 5.7, 13.6* |
| 1. Review and update the existing IALA Guideline 1018 to include the impact of advances in e-Navigation on risk control measures | 1 - 7 | *ANM take the lead.*  *Together with the e-NAV, EEP & VTS Committees.* | *5.7, 8.2, 10.7* |
| 1. Develop guidance on the application of maritime surface picture (e.g. AIS traffic data) for analysis in risk assessment and the provision of Aids to Navigation. | 2 – 5 | *ANM take the lead.*  *In conjunction with the e-NAV & VTS Committee.* | *8.2, 10.7, 13.5* |
| 1. Review and update guidance for AtoN Authorities, including Guideline 1062, in the use of Virtual Aids to Navigation assessing their use and contribution to safety of navigation. | 1 – 7 | *In collaboration with the other committees and the IHO.* | *5.5* |
| 1. Consider the IMO Wreck Removal Convention and its implications for AtoN Authorities and States. Develop a Recommendation for IALA Members including guidance on marking ‘floating wreckage’, taking into account existing IALA guidance. | 1 – 3 | *Together with EEP and e-NAV Committees & LAP* | *5.5* |
| 1. Co-ordinate a limited review of the IALA NAVGUIDE to incorporate amended Guidelines and Recommendations and other necessary updates. | 1 – 7 | *In conjunction with other IALA Committees / ad hoc groups.* |  |
| 1. Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process. | 4 – 6 | To include the principles of marking harbours / ports, e.g.:   1. Breakwater / Entrance lights, including:    * when the one breakwater / entrance light may not be opposite the other, but extend further out to sea (as a protruding point)    * when should a breakwater light be red / green and when can it be a white light    * a long breakwater needs to be marked halfway 2. Quay / jetty lights, including when lights are required to be on both sides of a jetty 3. Other points of interest 4. Bridge markings 5. Port Traffic Signals 6. Principles of marking inland waterways with a combination of fixed and floating AtoN. |  |
| 1. Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy. Review IALA Guideline 1052. | 3 –7 | *In conjunction with the other Committees.* | *5.6, 7.1, 10.8, 13.6*  *18.1* |
| 1. Review and update guidance for AtoN Authorities on level of service and changing user requirement; such as need for landfall lights and unlit AtoN. Review IALA Guideline 1004. | 2 – 5 | *In conjunction with the EEP Committee.* | *5.4, 5.6, 5.7, 13.6* |
| 1. Develop and update IALA Recommendation O-113 on the Marking of fixed bridges over navigable waters. | 1 – 3 | *In conjunction with the other Committees.* |  |
| 1. Review IALA Recommendation O-104 of 1998, for off station Signals for Major Floating Aids to Navigation and extended to considerations of Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys. | 2 – 4 |  |  |
| 1. Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures.    1. Marking of off-shore renewable energy installations (OREI) and the minimum distance that OREIs can be positioned from a TSS and / or shipping route    2. Synchronisation of lights, sectoring of lights, marking & numbering of individual units within an OREI, exit marks etc. | 1 – 6 | *Recommendation O-139 was last revised in 2008, ANM recognises that this is a rapidly evolving issue in the competition for sea space and anticipates that the matter will need to be revisited. In conjunction with ICAO.* |  |
| 1. Co-operate with the other committees in the project for AtoN Status / information exchange and associated metadata. | 3 – 5 | *In conjunction with the other Committees and stakeholders*. *Lead is e-NAV.* | *13.3* |
| 1. Examine the use of Audible Signals as aids to navigation and develop an IALA Guideline on their future. | 2 – 4 | *Together with the EEP Committee.* |  |
| 1. Develop a Recommendation for Marine Spatial Planning with emphasis on Navigational safety. | 2-6 | *Current developments of off shore renewable energy on an unprecedented scale have highlighted that AtoN authorities often do not have an overriding say on the location of Construction at sea. Planning authorities often lack an understanding of navigational safety and shipping issues with emphasis on the natural environment. It is considered necessary to have a Recommendation that can be referred to by planning authorities to assist in correcting this issue.* | *New item from conference recommendation* |
| 1. Review ANM Recommendations & Guidelines for updating | 1-7 | *To ensure Recommendations & Guidelines remain current ANM will regularly review content.* |  |
| 1. Update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning | 1-2 | *Simulation is a fast developing method of cost effective planning/testing prior to AtoN implementation. It has great potential for current off shore renewable developments. The current Guideline needs updating to support the AtoN authority planning activity* |  |
| 1. Develop a supplementary Guideline to 1058 providing technical detail for simulator providers and procurers of simulation to ensure appropriate components and quality for AtoN features | 2-6 | *The supplementary Guideline is seen as providing a better understanding of the potential use of simulation in AtoN planning.* |  |
| 1. Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation | 2-4 | *Arising from EEP query about synchronised / sequenced light systems.* | *10.8* |
| 1. Assist in the development of the IALA AtoN metadata Product Specification for the IHO registry | 4 | *Arising from IALA involvement in the IHO Registry* | *13.3* |
| 1. AT ANM 21 update the IALA Annual Questionnaire for council approval. | 1 | It has been agreed that the IALA questionnaire will be fixed for the 2014- 2018 work programme to provide a easily comparable data. At ANM21 the questionnaire will be prepared for council approval and launched at conference by ANM. |  |

Monitoring Items

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Duration | Comment | Strategy element(s) |
| M1 Risk Management and Risk Models | Continuous |  |  |
| M2 IALA Questionnaire | Annual |  |  |
| M3 Offshore manmade structures (OREI) | Continuous |  |  |
| M4 Development of e-Navigation within AtoN Authorities | Continuous | In conjunction with M5 |  |
| M5 Development of e-Navigation for AtoN users | Continuous | In conjunction with M4 |  |
| M6 Development of mobile marine products for AtoN users | Continuous | e.g. Apps, email alerts, charting solutions |  |

Deferred Items

|  |  |  |  |
| --- | --- | --- | --- |
| Task | No. of sessions | Comment | Strategy element(s) |
| D1 None at this time |  |  |  |

**Aids to Navigation Management Committee Work Plan 2010 - 2014**

| Task | Session | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 1. Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth. | X | X | X | X | X | X | X |
| 1. Develop Recommendations on AtoN standards and navigational requirements in risk control measures included in e-Navigation (this would include a revision (or a replacement) of the existing Recommendations and Guideline on risk management). | X | X | X | X | X | X | X |
| 1. Develop guidance on the application of maritime surface picture (e.g. AIS traffic data) for analysis in risk assessment and the provision of Aids to Navigation. |  | X | X | X | X |  |  |
| 1. Review and update guidance for AtoN Authorities, including Guideline 1062, in the use of Virtual Aids to Navigation assessing their use and contribution to safety of navigation. | X | X | X | X | X | X | X |
| 1. Consider the IMO Wreck Removal Convention and its implications for AtoN Authorities and States. Develop a Recommendation for IALA Members including guidance on marking ‘floating wreckage’, taking into account existing IALA guidance. | X | X | X |  |  |  |  |
| 1. Co-ordinate a limited review of the IALA NAVGUIDE to incorporate amended guidelines and recommendations and other necessary updates. | X | X | X | X | X | X | X |
| 1. Develop guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks, including examples of those debated during the consultation and drafting process. |  |  |  | X | X | X |  |
| 1. Produce Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment, in support of the IALA World-Wide Academy. Review IALA Guideline 1052. |  |  | X | X | X |  |  |
| 1. Review and update guidance for AtoN Authorities on level of service and changing user requirement; such as need for landfall lights and unlit AtoN. Review IALA Guideline 1004. |  | X | X | X | X |  |  |
| 1. Develop and update IALA Recommendations O-113 on the Marking of fixed bridges over navigable waters, also considering the marking of overhead power lines. | X | X | X |  |  |  |  |
| 1. Review IALA Recommendation O-104 of 1998, for off station Signals for Major Floating Aids to Navigation and extended to considerations of Buoys of Primary Navigation Significance (BPNS) and so called Superbuoys. |  | X | X | X |  |  |  |
| 1. Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures.    1. Marking of off-shore renewable energy installations (OREI) and the minimum distance that OREIs can be positioned from a TSS and / or shipping route    2. Synchronisation of lights, sectoring of lights, marking & numbering of individual units within an OREI, exit marks etc. | X | X | X | X | X | X |  |
| 1. Co-operate with the other committees in the project for AtoN status / information exchange and associated metadata. |  |  | X | X | X |  |  |
| 1. Examine the use of Audible Signals as aids to navigation and develop an IALA Guideline on their future. |  | X | X | X |  |  |  |
| 1. Develop a Recommendation for Marine Spatial Planning with emphasis on navigational safety. |  | X | X | X | X | X |  |
| 1. Review ANM Recommendations & Guidelines for updating. | X | X | X | X | X | X | X |
| 1. Develop and update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning. | X | X |  |  |  |  |  |
| 1. Develop a supplementary Guideline to 1058 providing technical detail for simulator providers and procurers of simulation to ensure appropriate components and quality for Aton features. |  | X | X | X | X | X |  |
| 1. Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation. |  | X | X | X |  |  |  |
| 1. Assist in the development of the IALA AtoN metadata Product Specification for the IHO registry |  |  |  | X | X | X | X |
| 1. At ANM 21 update the IALA Annual Questionnaire for council approval. |  |  |  |  |  |  | X |