

**Report of the 21st Session of the IALA ANM Committee**

**14 to 18 October 2013**

***Executive Summary***

* 35 Members from 19 countries attended the meeting; 5 members for the first time;
* The Committee considered 44 input papers and produced 13 output papers;
* Draft documents submitted to Council for approval included:
* two Recommendations;
* two Guidelines
* six liaison notes to other Committees and PAP;
* fully reviewed NAVGUIDE.
* Information papers submitted to Council included:
* Report of the IALA Workshop on Application of Aids to Navigation within Marine Spatial Planning (MSP)
* The Committee, with the exception of Task 15 (MSP Guideline), completed the 2010-2014 Work Programme.
* The proposed Work Programme for the Committee (2014-18) was reviewed and forwarded to PAP for its consideration.
* Liaison notes were produced to:
* Council on the Questionnaire. In accordance with previous Council approval the IALA questionnaire content and format is unchanged for the four years between conferences in order to enable accurate data and the corresponding trend analysis to be gathered. The questionnaire is issued every two years. In preparation for the next four year period the IALA questionnaire has been revised with contributions from all committees and is an output document from ANM21.
* Council on the NAVGUIDE. The ANM Committee is pleased to report that the review of the IALA NAVGUIDE is complete. A Word document of the latest version of IALA NAVGUIDE has been submitted for review and approval of its textual content only. This document is not print ready and is not for external distribution and is only for internal IALA assessment. In anticipation of the next review, the ANM Committee debated various aspects of the IALA NAVGUIDE. Specifically, the usefulness of a printed copy versus an electronic version was widely discussed.

*(summary* *continued on page2)*Many members expressed the need for a printed summary copy while advocating for a more comprehensive electronic version such as a Wiki or another navigable on-line system that is fully integrated with the various Guidelines and Recommendations. Concerns were raised related to the relevancy, accuracy, availability and cost of a printed version of the NAVGUIDE.

* Secretariat on the revised NAVGUIDE.
* VTS Committee on Disaster Recovery
* ANM Committee on the revision of the NAVGUIDE
* E-NAV Committee on a point of contact for S-100
* Members of the Committee were encouraged to register for the IALA Conference 2014.

\* \* \*Table of Contents

1 General 6

1.1 Administrative Announcements 7

1.2 Approval of the Agenda 7

1.3 Apologies 7

2 Review of Action Items from ANM20 7

2.1 Action Items – IALA Secretariat 7

2.2 Action Items – ANM Committee Members 7

3 Review of input papers 8

4 Reports from other bodies 8

4.1 IALA Council 55th session 8

4.2 PAP25 8

4.3 MSC92 8

4.4 NAV59 8

4.5 IALA MSP workshop, May 2013 8

5 Reports from Rapporteurs 8

5.1 Risk Management and Risk Models (M1) 8

5.2 IALA Questionnaire (M2) 9

5.3 Offshore man-made structures (M3) 9

5.4 Development of e-Navigation within AtoN Authorities (M4) 9

5.5 Development of e-Navigation for AtoN users (M5) 9

5.6 Development of mobile marine products for AtoN users (M6) 9

5.7 IALA Dictionary (M7\*) 9

6 Presentations 9

6.1 IALA World-Wide Academy (WWA) 9

6.2 IHO S-100 Product Specifications for e-Navigation 9

6.3 Stad vessel tunnel 9

7 Establish Working Groups 10

8 Working Group 1 – Navigational Requirements (WG1) 10

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\*) 10

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 (1018)). (Task 2\*) 10

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 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\*) 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 Revision of IALA questionnaire 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\*) 13

9.5 Develop and update IALA Recommendation O-113 on the Marking of fixed bridges over navigable waters, also considering the marking of overhead power lines (Task 10\*) 13

9.6 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\*) 13

9.7 Co-operate with the other Committees in the project for AtoN Status / information exchange and associated metadata (Task13\*) 13

9.8 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\*) 13

9.9 Review ANM Recommendations & Guidelines for updating (Task16\*) 13

9.10 Update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning (Task17\*) 14

9.11 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\*) 14

9.12 Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation (Task 19\*) 14

10 Develop a Recommendation for navigational safety matters within Marine Spatial Planning (Task 15\*) 14

11 Review of Current Work Programme (2010 – 2014) 14

12 Future Work Programme (2014 – 2018) 14

13 Review of output and working papers 15

14 Any Other Business 15

15 Review of session report 15

16 Date and venue for next meeting 15

17 Closing of the Meeting 15

18 List of Annexes 16

ANNEX A ANM21 Committee Agenda 17

ANNEX B ANM21 Participants 20

ANNEX C Working Group Participants 28

ANNEX D List of input papers 30

ANNEX E List of Output and Working Papers 32

ANNEX F Action Items 33



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| ANM Committee  21st Session | Sain Germain en Laye, France  18 October 2013 |

**Report of the 21st Session of the IALA ANM Committee**

# General

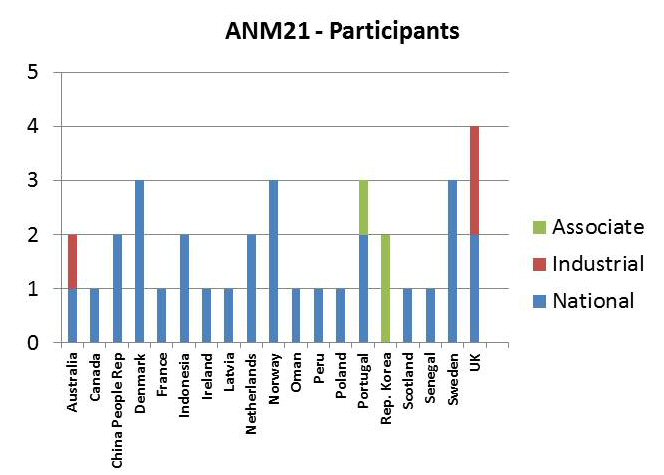
The 21st meeting of the **ANM Committee** was held from 14 to 18 October 2013 at IALA. The Chairman was Phil Day and Michael Skov was Vice Chairman. The Secretary for the meeting was Wim van der Heijden.

35 Members from 19 countries participated in ANM21.



The Chairman opened the meeting by welcoming all attendees, with a special welcome for new members and highlighted that being the final meeting of the 2010-2014 Work Programme it was an important meeting with several key tasks scheduled for completion. Finally he briefed members on the new strategy for IALA for the coming Working Period.

The Chairman introduced himself, the Vice Chairman and the Secretary.



## Administrative Announcements

Virginia Butler gave a Safety Briefing and other administrative details and some information for lunches and coffee breaks including the social programme. The Chairman thanked the Secretariat for the information provided.

The Chairman then ran through the programme for the week (ANM21-1.4 refers), reviewing the week ahead.

## Approval of the Agenda

Input paper ANM21-1.2 refers.

The agenda was reviewed and adopted.

## Apologies

The Chairman apologised the Secretary-General and the Deputy Secretary-General not being here because of other obligations.

Apologies were further received from:

|  |  |  |
| --- | --- | --- |
| **NAME** | **ADMINISTRATION** | **COUNTRY** |
| BRINE Gerry | AMSA | Australia | |
| COLLOCOTT James | SAMSA | South Africa | |
| KURTZ Raven | Federal Waterways and Shipping Agency | Germany | |
| LIJOUR Philippe | CETMEF | France | |
| ESCALANTE Raul | Hidrovia | Argentina | |
| NOGUCHI Hideki | JCG | Japan | |
| HARTIKAINEN Jarmo | FTA | Finland | |
| STEENBERG Cathrine | Force Technology | Denmark | |
| SCHJELDAHL Peter Jensen | Force Technology | Denmark | |
| ALMAGUER Julio Fidel | INOCAR | Cuba | |
| TRAINOR Robert | USCG | USA | |
| NILES Pete | USCG | USA | |

The Chairman then asked the Committee members to introduce themselves.

# Review of Action Items from ANM20

Input paper ANM21-2.1 refers.

## Action Items – IALA Secretariat

It was noted that all IALA Secretariat actions from ANM20 had been completed.

## Action Items – ANM Committee Members

It was noted that all actions of ANM Committee Members from ANM20 had been completed.

# Review of input papers

Input paper ANM21-3 refers.

It was noted that some late input papers, as output from the EEP and e-NAV Committee meetings, were added to the list and the Chairman brought them to the Committee’s attention.

The input papers were reviewed, briefly, and their disposition agreed.

# Reports from other bodies

## IALA Council 55th session

Input paper ANM21-4.1 refers.

The Chairman drew the member’s attention to:

* The development of the IALA Strategy.
* All submitted new or revised ANM Guidelines and Recommendations were approved. The Guideline 1081 was approved with a minor editorial change.

## PAP25

Input paper ANM21-4.2 refers.

The input paper was noted and pertinent points highlighted.

## MSC92

Input paper ANM21-4.3 refers.

The Chairman drew attention to:

* The combination of IMO sub-committees NAV and COMSAR into the sub-committee Navigation, Communications and Search and Rescue (NCSR) which is important for IALA.

## NAV59

Input paper ANM21-4.4 refers.

There was no IALA report available. The IMO report to MSC was noted.

## IALA MSP workshop, May 2013

Input paper ANM21-4.5 refers.

The report of the workshop on Application of Aids to Navigation within Marine Spatial Planning was noted. The conclusions of the workshop will be further discussed under agenda item 8.6 (Task 12) and item 10 (Task15\*).

Action items

The Secretariat is requested to forward the Report of the workshop on Application of Aids to Navigation within Marine Spatial Planning (ANM21-4.5) to Council to note.

The Secretariat is requested to put ANM21-4.5 on the IALA web: ‘Publications – Reports and Proceedings’.

# Reports from Rapporteurs

Where provided, presentations made during this agenda item form part of the input of the meeting and are available from the Committee website.

## Risk Management and Risk Models (M1)

Input paper ANM21-5.1 (presentation) refers.

A presentation on the suggested removal of the Drogden lighthouse was made by Jakob Bang, DMA. Simulations and the IWRAP analysis were used to calculate the risks for the removal. The report attended also to the IALA-WWA Training Seminar on Risk Management, Madrid November 2013.

## IALA Questionnaire (M2)

Jorge Teles, Direcçao de Farois, reported that some input documents were received and that further work will continue and finalised under agenda item 8.7.

## Offshore man-made structures (M3)

The rapporteur was unable to attend ANM21.

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

The rapporteur was unable to attend ANM21.

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

Input paper ANM21-5.5.1.1 (presentation) and ANM21-5.5.1.2 (video of ANM21-5.5.1.1) refers.

Martin Bransby, GLA, gave an update of the ACCSEAS project and highlighted several aspects of e-Navigation which are demonstrated on board vessels and simulators.

He also reported on the USCG use of AIS AtoN. There are new developments on RACON called e-NAVCON, a combined AIS AtoN and radar beacon.

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

Marek Ledochowski, Urzad Morski w Gdynia, reported on UK and Finland contributions. Developments are on-going on electronic charts for smaller (non-SOLAS) vessels.

## IALA Dictionary (M7\*)

The rapporteur was unable to attend ANM21.

The Chairman thanked the rapporteurs for their contributions.

# Presentations

## IALA World-Wide Academy (WWA)

Input paper ANM21-6.1 (presentation) refers.

Stephen Bennett updated the Committee about the activities and procedures of the WWA. The presentation covered:

* The WWA’s task for 78 States in 7 regions;
* The WWA’s role in both capacity building and training;
* The growing co-operation between IMO and IALA;
* Details of new Model courses, upcoming workshops and training courses;
* The IALA Experts. There are 4 AtoN Experts now, more are needed!

## IHO S-100 Product Specifications for e-Navigation

Input paper ANM21-6.2 (presentation) refers.

Bjorn Erik Krosness, Norwegian Coastal Administration, attended the IALA workshop on Developing IHO S-100 Product Specifications for e-Navigation. The IHO S-100 Universal Hydrographic Data Model should form the first step to a Common Maritime Data Structure for e-Navigation.

## Stad vessel tunnel

Input paper ANM21-6.3 (presentation) refers.

Roger Njord Svino, Norwegian Coastal Administration, gave a presentation on the announced construction of a tunnel for sea going ships which would bypass the [Stad peninsula](http://en.wikipedia.org/wiki/Stad_(peninsula)) in [Selje](http://en.wikipedia.org/wiki/Selje), Norway.

The Chairman thanked the speakers for the presentations which are all on the IALA web site.

# 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.

|  |  |
| --- | --- |
| Working Group (WG) | Working Group Chairman / Vice Chairman |
| WG1 – Navigational Requirements | Roger Barker / Jorge Teles |
| WG2 – Continuous Improvement | John Festarini / 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 ANM21 in order to allow the conclusion of the work programme 2010/2014.

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

Completed. Approved at the 55th session of the Council.

## 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\*)

Completed. Approved at the 55th session of the Council.

## 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

The WG finalised the draft guideline for submission to the Council. This guideline provides high level advice on the use of Geographic Information Systems to analyse and determine the requirements for new and existing Aids to Navigation. The document includes broad working examples and cautionary advice on system limitations.

Action Item

The Secretariat is requested to forward the Guideline on maritime surface picture for analysis in risk assessment and the provision of Aids to Navigation (ANM21-13.1.1.3) to Council for approval.

## 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\*)

Completed. Approved at the 55th session of the Council.

## 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\*)

The task was suspended at Council 54, following the outcome of ANM19.

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

Task Leader: Jorge Teles

This recommendation was thoroughly discussed at the maritime spatial planning workshop (May 2013) from which were received very valuable inputs and comments.

The WG made the final adjustments in the layout and content of the paper, improving its coherency.

The recommendation is finalised and ready for submission to the Council.

Action Item

The Secretariat is requested to forward the revised Recommendation on The Marking of Man-Made Offshore Structures O-139 (ANM21-13.1.1.4) to Council for approval.

The Secretariat is requested to consider informing IMO of the development of O-139 after approval by Council taking into account SN/Circ.62, 12 August 1971.

## Revision of IALA questionnaire

The IALA questionnaire is reviewed every 4 years in order to keep it current with the needs of IALA.

After receiving contributions from the different committees, the WG worked in a new layout / content which is deemed to respond to the different requirements / trend analysis identified as necessary.

A Liaison note to Council was drafted for the approval of the layout of questionnaire and the timetable for the implementation.

Action item

The Secretariat is requested to forward the liaison note on the questionnaire (ANM21-13.1.1.1) to Council for approval.

The Secretariat is requested to forward the IALA Questionnaire (ANM21-13.1.1.2) to Council for approval

# Working Group 2 – Continuous Improvement (WG2)

The WG contained 15 members of whom 3 were attending an IALA Committee meeting for the first time. The WG was very productive producing 6 output papers for submission to Council and to the other Committees and 1 working paper for input to ANM22.

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 ANM21. This included working papers for input to ANM22 and potential output papers (either Recommendations or Guidelines for Council approval or liaison notes to other Committees).

The Chair advised that the priority outputs for the WG2 at ANM20 were to:

* Finalise the content and quality review Task 6 - Co-ordinate a limited review of the IALA NAVGUIDE taking into account input received from the EEP, VTS and e-NAV Committees.
* Finalise for Council approval 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*.*
* Produce a working paper Task 15 - Develop a Recommendation for navigational safety matters within Marine Spatial Planning

The WG established new, or reconvened existing specialist task groups, each with a dedicated Task Leader, to progress individual agenda Items including taking into account the relevant input papers. Task leaders for each task were as follows:

* John Festarini (Task 6 - Co-ordinate a limited review of the IALA NAVGUIDE)
* Errol Joppich (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)
* Ernst Bolt (Task 15 - Develop a Recommendation for navigational safety matters within Marine Spatial Planning)

## 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 Assisted by: Martin Bransby, Guttorm Tomren, Johan Westerlund, Tina Desirina, Errol Joppich, Arlindo Santos, Minsu Jeon, Wenzhi Yang, David Jeffkins, Jorge Teles, Massene Sene, and Johan Pettersson

The following input papers refer:

ANM21-9.1.1 - Liaison Note from VTS on Updates to Chapter 6 of the NAVGUIDE

ANM21-9.1.2 - Updated Chapter 6.1 of the NAVGUIDE

ANM21-9.1.3 - Liaison Note from VTS on Updates to Chapter 5 of the NAVGUIDE

ANM21-9.1.4 - Draft NAVGUIDE with Changes Tracked

ANM21-9.1.5 - Liaison Note from EEP on Updates to NAVGUIDE

ANM21-9.2.1 - Discussion Paper on MBS Guidance

A considerable number of sections relevant to the ANM Committee were reviewed and edited as appropriate. The guidance found in the discussion paper on MBS was reviewed and the related sections to the NAVGUIDE were amended to reflect the guidance. The liaison notes from the other committees on content changes were reviewed and, as considered appropriate, reflected in the updated draft of the NAVGUIDE. A final proof reading exercise was undertaken to ensure overall quality of the document and its contents.

A liaison note to the IALA Secretariat requesting a Foreword from the Secretary General, updates to Chapter 1, and design specifications for the purposes of printing was prepared.

A liaison note to ANM22 was created to document lessons learned and provide recommendations to facilitate future updates to the NAVGUIDE. It is recommended that IALA adopt a Document Management System which would assist in the revision of its publications and documents.

The Task Leader wishes to thank all the members of the ANM, EEP, VTS and e-NAV Committees as well as the IALA Secretariat for their various contributions to the most recent NAVGUIDE update.

Action items:

The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM21-13.1.2.1) to the Secretariat.

The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM21-13.1.2.3) to ANM22.

The Secretariat is requested to forward the revised edition of the NAVGUIDE (ANM21-13.1.2.2) to Council to note.

All ANM members are kindly reminded to send any photos for inclusion in the NAVGUIDE inter-sessionally to John Festarini.

## 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\*)

Completed in ANM20.

## 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: Errol Joppich Assisted by: David Jeffkins, Johan Westerlund

The following input papers refer:

ANM21/9.3.1 - Revised IALA Recommendation O-132 on Quality Management

ANM21/9.3.2 - Revised IALA Guideline 1052 on QMS for AtoN Service Delivery

During the review process it became apparent that the associated Recommendation needed updating. A thorough review of the Recommendation and Guideline took place and a final quality check was completed.

Action item:

The Secretariat is requested to forward the draft revised Recommendation O-132 (ANM21-13.1.2.4) to Council for approval.

The Secretariat is requested to forward the draft revised Guideline 1052 (ANM21-13.1.2.5) to Council for approval.

## 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\*)

Completed. Approved at the 55th session of the Council.

## Develop and update IALA Recommendation O-113 on the Marking of fixed bridges over navigable waters, also considering the marking of overhead power lines (Task 10\*)

Completed. Approved at the 52nd session of the Council.

## 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\*)

Completed. Approved at the 53rd session of the Council.

## Co-operate with the other Committees in the project for AtoN Status / information exchange and associated metadata (Task13\*)

Completed.

## 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\*)

Completed. Approved at the 54th session of the Council.

## Review ANM Recommendations & Guidelines for updating (Task16\*)

Input paper ANM21-9.9 (working paper) refers.

For this on-going activity the working paper was reviewed, amended and completed for this working period. It stays as a working paper and will be forwarded to ANM22 for further consideration in the future.

Action item

The Secretariat is requested to forward the amended working paper on Documents Managed by the ANM Committee (ANM21-13.2.2.1) to ANM22 for further consideration in the working period 2014-2018.

## Update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning (Task17\*)

Completed. Approved at the 51st session of the Council.

## 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\*)

Completed. Approved at the 55th session of the Council.

## Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation (Task 19\*)

Completed. Approved at the 51st session of the Council.

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

This task was appointed to WG2.

Task Leader: Ernst Bolt Assisted by: Bjorn Erik Krosness

The following input papers refer:

ANM21-4.5 - Report of MSP workshop

ANM21-4.5.2 - MSP WG1 Planning process / legislation (step by step process)

ANM21-4.5.3 - MSP WG2 Use of GIS in planning process

ANM21-4.5.4 - MSP WG3 Risk assessment and mitigation

The information produced during the MSP Workshop was gathered, sorted and structured into the IALA Guideline format which is considered more appropriate by the Committee. The table of contents was set up and the process of transforming the meeting notes into a readable text initiated.

Action item

The Secretariat is requested to forward the Working Paper on Navigational Safety within MSP (ANM21-13.2.2.2) to ANM22 for consideration.

# Review of Current Work Programme (2010 – 2014)

Input paper ANM21-11.1 refers.

The current work programme was not further reviewed.

# Future Work Programme (2014 – 2018)

Input papers ANM21-12.1 refers.

The following actions related to the Future Work Programme (2014-2018) were done based on the input papers as referred.

* A liaison note (ANM21-13.1.3.1) was drafted to the VTS Committee on Disaster Recovery (input paper ANM21-12.1.2 refers).
* The suggestion from the Netherlands regarding combining SAMSON and IWRAP was added to the draft Committee Work Program 2014-2018 (input paper ANM21-12.1.3 refers).
* The content of the liaison note from the e-NAV Committee on Disaster Recovery was noted (input paper ANM21-12.1.4 refers).
* The document on the S-100 was noted and a point of contact was requested from the Committee during the closing plenary. Martin Bransby volunteered. (input paper ANM21-12.1.5 refers).

Taking the above mentioned actions into account, the draft Future Work Programme (2014-2018) was reviewed and amended as appropriate.

Action items

The Secretariat is requested to forward the amended Future Work Programme 2014-2018 (ANM21-12.2) to PAP26 for consideration.

The Secretariat is requested to forward the liaison note on Disaster Recovery (ANM21-13.1.3.1) to the VTS Committee to note.

# 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 their disposition agreed.

The Secretariat was requested to forward / action 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.

# Any Other Business

Input papers ANM21-14.1 and ANM21-14.2 refers.

The input papers were reviewed and it was concluded that the new / revised Recommendations of the e-NAV Committee were input to note only. No further action was required.

# Review of session report

The report was reviewed and then approved by the Committee.

Action item

The Secretariat is requested to forward the report of ANM21 (ANM21-15) to the Council to note.

# Date and venue for next meeting

The ANM Committee is expected to meet in September / October 2014 at IALA. Precise dates will be available later.

The Chairman reminded the Committee members of the IALA Conference, 25-31 May 2014, in A Corunia, Spain.

# Closing of the Meeting

The Chairman again expressed his thanks for all the hard work done during the meeting and over the last four years.

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 and hoped to see everyone during the IALA Conference 2014.

# 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. ANM21 Committee Agenda

**21st Meeting of the Aids to Navigation Management Committee**

The 21st meeting of the **ANM Committee** will be held from 14 - 18 October 2013, at IALA.

The opening plenary will commence at 1300 on Monday, 14 October 2013, and the closing plenary will end at approximately 1300 on Friday, 18 October 2013.

Committee Chair, Vice-Chair and working group Chairpersons are requested to meet at 0900 on Monday, 14 October, 2013.

Work items / Tasks being addressed during this meeting are listed in ANM21-11.1 (ANM20/output/2).

**AGENDA**

1. Introduction
   1. Administration & Safety briefing
   2. Approval of the agenda
   3. Apologies and introductions
   4. Programme for the week
2. Review of action items from last meeting
   1. Review of actions from ANM20
   2. Final Report from ANM20 – for reference
3. Review of input papers
4. Reports from other bodies:
   1. Report from IALA Council – 55th Session, May 2013
   2. Report from PAP25, May 2013
   3. Report from MSC92, June 2013
   4. Report from NAV59, September 2013
   5. Report from IALA MSP Workshop
5. Report from rapporteurs:
   1. Risk Management and Risk Models (M1\*) Jakob Bang
   2. IALA Questionnaire (M2\*) Jorge Teles
   3. Offshore manmade structures (OREI) (M3\*) Raven Kurtz
   4. Development of e-Navigation within AtoN Authorities (M4\*) Gerry Brine
   5. Development of e-Navigation for AtoN users (M5\*) Martin Bransby
   6. Development of mobile marine products for AtoN users (M6\*) Marek Ledochowski
   7. IALA Dictionary (M7\*) Robert Trainor
6. Presentations:
   1. Brief on WWA Stephen Bennett
   2. S-100 Product Specifications for e-Navigation Bjorn Erik Krosness
   3. Stadtvesseltunnel Roger Njord Svino

1. Establish Working Groups
2. Working Group 1 – Navigational Requirements (WG1)
   1. Produce guidance for Aids to Navigation Authorities on the user requirements and practical applications of e-Navigation, from berth to berth. (Task 1\*) Complete
   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\*) Complete
   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\*) Complete
   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\*) Suspended
   6. Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures (Task 12\*)
   7. Revision of the IALA questionnaire
3. Working Group 2 – Continuous Improvement (WG2)
   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\*) Complete
   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\*) Complete
   5. Develop and update IALA Recommendation O-113 on the Marking of fixed bridges over navigable waters, also considering the marking of overhead power lines (Task 10\*) Complete
   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\*) Complete
   7. Co-operate with the other Committees in the project for AtoN Status / information exchange and associated metadata (Task 13\*) Complete
   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\*) Complete
   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\*) Complete
   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\*) Complete
   12. Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation (Task 19\*) Complete
4. Develop a Recommendation for navigational safety matters within Marine Spatial Planning (Task 15\*)
5. Review of Current Work Programme (2010 - 2014)
6. Future Work Programme (2014 – 2018)
   1. Disaster recovery
7. Review of output and working papers
   1. Output papers
   2. Working papers
8. Any Other Business
9. Review of session report
10. Date and venue of next meeting
11. Close of the meeting
12. ANM21 Participants

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2. Navigational Requirements

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1. Continuous Improvement

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1. List of input papers

All papers are posted on the Committee website and the FTP server

| Meeting | Agenda Item | Revision | Title / Author (if required) | Presented by / WG |
| --- | --- | --- | --- | --- |
| ANM21- | 1.2 | rev6 | Agenda | PD / CS |
| ANM21- | 1.4 | rev1 | Programme for the week | PD / CS |
| ANM21- | 2.1 |  | Action Items from ANM20 | PD / CS |
| ANM21- | 2.2 |  | Report of ANM20 (ANM20/output/1) | All |
| ANM21- | 3 | rev12 | Papers’ List | PD / CS |
| ANM21- | 4.1 |  | Report C55 | PD / CS |
| ANM21- | 4.2 |  | Report PAP25 | PD / CS |
| ANM21- | 4.3 |  | Report IMO MSC92 | PD / CS |
| ANM21- | 4.4 |  | Report IMO NAV59 | PD / CS |
| ANM21- | 4.5 |  | Report of MSP workshop | PD / CS |
| ANM21- | 4.5.2 |  | MSP WG1 Draft Guideline structure and meeting notes | PD / CS |
| ANM21- | 4.5.3 |  | MSP WG2 Use of GIS in planning process | PD / CS |
| ANM21- | 4.5.4 |  | MSP WG3 Risk assessment and mitigation | PD / CS |
| ANM21- | 5.1 |  | report on Risk Management |  |
| ANM21- | 5.5.1.1 |  | ACCSEAS presentatin |  |
| ANM21- | 5.5.1.2 |  | Resilent PNT (video belongs to 5.4.1.1) |  |
| ANM21- | 6.1 |  | WWA brief Oct13 |  |
| ANM21- | 6.2 |  | IALA workshop on S-100 |  |
| ANM21- | 6.3 |  | Presentation on Stadtvesseltunnel |  |
| ANM21- | 8.3.1 |  | Task 3 Draft Guideline on AIS Analysis | 1 |
| ANM21- | 8.5.1 |  | Task 5 Rejected Draft Recommendation on the marking of drifting wreckage | 1 |
| ANM21- | 8.6.1 |  | Task 12 4 Brief report about review of O-139 ANM19 Annex 8 | 1 |
| ANM21- | 8.6.2 |  | Draft revised IALA Recommendation O-139 | 1 |
| ANM21- | 8.6.3 |  | O-139 after msp\_v3\_with track changes | 1 |
| ANM21- | 8.6.4 |  | O-139 after msp\_v3\_clean | 1 |
| ANM21- | 8.7.1 | rev1 | Revision questionnaire | 1 |
| ANM21- | 8.7.2 |  | Liaison note EEP Questionnaire | 1 |
| ANM21- | 9.1.1 |  | Liaison NAVGUIDE chapter 6.1 | 2 |
| ANM21- | 9.1.2 |  | update NAVGUIDE chapter 6.1 | 2 |
| ANM21- | 9.1.3 | rev1 | Liaison NAVGUIDE chapter 5 | 2 |
| ANM21- | 9.1.4 |  | draft NAVGUIDE track changes | 2 |
| ANM21- | 9.1.5 |  | Liaison note EEP NAVGUIDE | 2 |
| ANM21- | 9.2.1 |  | Discussion paper on MBS guidance | 2 |
| ANM21- | 9.3.1 |  | Revised IALA Recommendation O-132 on Quality Management | 2 |
| ANM21- | 9.3.2 |  | Revised IALA Guideline 1052 on QMS for AtoN Service Delivery | 2 |
| ANM21- | 9.9.1 |  | Documents Managed by ANM | 2 |
| ANM21- | 9.11.1 |  | Executive Summary IALA Guideline on Technical Features and Technology Relevant for Simulation of AtoN | 2 |
| ANM21- | 11.1 |  | ANM Work programme, as approved at C55 | All |
| ANM21- | 12.1 |  | Committee workplan 2014-18 | C & VC |
| ANM21- | 12.1.2 |  | Liaison from VTS on Disaster Recovery | C & VC |
| ANM21- | 12.1.3 |  | Proposal new task WP 2014-2018 | C & VC |
| ANM21- | 12.1.4 |  | Liaison from e-NAV on Disaster Recovery | C & VC |
| ANM21- | 12.1.5 |  | Liaison from e-NAV on S-100 | C & VC |
| ANM21- | 14.1 |  | Rec on the IALA Common Shore-based System Architecture (CSSA) |  |
| ANM21- | 14.2 |  | Draft Revision Of Rec e-NAV-140 on e-Navigation Architecture-Shore Perspective(Ed2)a |  |

1. 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** |
| ANM21-15 | Draft Report | To Council to note |
| ANM21-12.2 | Work Programme 2014-2018 | To PAP to consider |
| ANM21-4.5 | Report of the workshop on Application of Aids to Navigation within Marine Spatial Planning | To Council to note  To the IALA web |
| ANM21-13.1.1.1 | Liaison note to Council-Questionnaire | To Council to approve  To PAP to note |
| ANM21-13.1.1.2 | Questionnaire | To Council to approve  To PAP to note |
| ANM21-13.1.1.3 | Guideline on Application of Maritime Surface Picture for Analysis in Risk Assessment and the Provision of AtoN | To Council to approve |
| ANM21-13.1.1.4 | Recommendation on The Marking of Man-Made Offshore Structures O-139 | To Council to approve |
| ANM21-13.1.2.1 | Liaison note to Secretariat on NAVGUIDE | To Secretariat to action |
| ANM21-13.1.2.2 | Draft revised NAVGUIDE | To Council to approve textual |
| ANM21-13.1.2.3 | Liaison note to ANM on NAVGUIDE | To ANM22 to note |
| ANM21-13.1.2.4 | Recommendation O-132 | To Council to approve |
| ANM21-13.1.2.5 | Guideline 1052 | To Council to approve |
| ANM21-13.1.2.6 | Liaison note to Council on NAVGUIDE | To Council to clarify and to approve  To PAP to note |
| ANM21-13.1.3.1 | Liaison note to VTS-Response on Disaster Recovery | To VTS to note |
| ANM21-13.1.3.2 | Liaison note to e-NAV on S-100 | To e-NAV to note |

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

|  |  |  |
| --- | --- | --- |
| **Number** | **Title** | **Status** |
| ANM21-13.2.2.1 | Update of documents managed by ANM | To ANM22 |
| ANM21-13.2.2.2 | Draft Guideline on Navigational Safety within MSP | To ANM22 |

1. Action Items

Action Items for Secretariat

1. [The Secretariat is requested to forward the Report of the workshop on Application of Aids to Navigation within Marine Spatial Planning (ANM21-4.5) to Council to note. 8](#_Toc369864167)
2. [The Secretariat is requested to put ANM21-4.5 on the IALA web: ‘Publications – Reports and Proceedings’. 8](#_Toc369864168)
3. [The Secretariat is requested to forward the Guideline on maritime surface picture for analysis in risk assessment and the provision of Aids to Navigation (ANM21-13.1.1.3) to Council for approval. 10](#_Toc369864169)
4. [The Secretariat is requested to forward the revised Recommendation on The Marking of Man-Made Offshore Structures O-139 (ANM21-13.1.1.4) to Council for approval. 11](#_Toc369864170)
5. [The Secretariat is requested to consider informing IMO of the development of O-139 after approval by Council taking into account SN/Circ.62, 12 August 1971. 11](#_Toc369864171)
6. [The Secretariat is requested to forward the liaison note on the questionnaire (ANM21-13.1.1.1) to Council for approval. 11](#_Toc369864172)
7. [The Secretariat is requested to forward the IALA Questionnaire (ANM21-13.1.1.2) to Council for approval 11](#_Toc369864173)
8. [The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM21-13.1.2.1) to the Secretariat. 12](#_Toc369864174)
9. [The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM21-13.1.2.3) to ANM22. 12](#_Toc369864175)
10. [The Secretariat is requested to forward the revised edition of the NAVGUIDE (ANM21-13.1.2.2) to Council to note. 12](#_Toc369864176)
11. [The Secretariat is requested to forward the draft revised Recommendation O-132 (ANM21-13.1.2.4) to Council for approval. 13](#_Toc369864177)
12. [The Secretariat is requested to forward the draft revised Guideline 1052 (ANM21-13.1.2.5) to Council for approval. 13](#_Toc369864178)
13. [The Secretariat is requested to forward the amended working paper on Documents Managed by the ANM Committee (ANM21-13.2.2.1) to ANM22 for further consideration in the working period 2014-2018. 14](#_Toc369864179)
14. [The Secretariat is requested to forward the Working Paper on Navigational Safety within MSP (ANM21-13.2.2.2) to ANM22 for consideration. 14](#_Toc369864180)
15. [The Secretariat is requested to forward the amended Future Work Programme 2014-2018 (ANM21-12.2) to PAP26 for consideration. 15](#_Toc369864181)
16. [The Secretariat is requested to forward the liaison note on Disaster Recovery (ANM21-13.1.3.1) to the VTS Committee to note. 15](#_Toc369864182)
17. [The Secretariat is requested to forward the report of ANM21 (ANM21-15) to the Council to note. 15](#_Toc369864183)

Action Items for Members

1. [All ANM members are kindly reminded to send any photos for inclusion in the NAVGUIDE inter-sessionally to John Festarini. 12](#_Toc369864184)