



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)

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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.

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Report of the ANM Committee

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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

1 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.

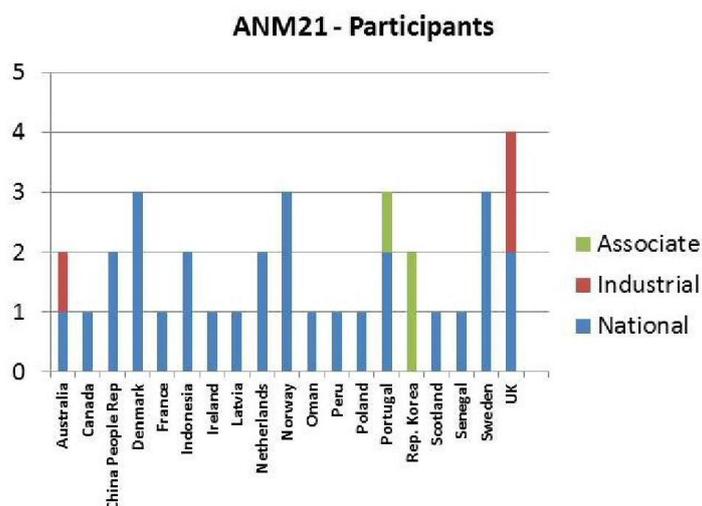
35 Members from 19 countries participated in ANM21.



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.

Report of the ANM Committee



1.1 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.

1.2 Approval of the Agenda

Input paper ANM21-1.2 refers.

The agenda was reviewed and adopted.

1.3 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.

2 Review of Action Items from ANM20

Input paper ANM21-2.1 refers.

2.1 Action Items – IALA Secretariat

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

Report of the ANM Committee

2.2 Action Items – ANM Committee Members

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

3 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.

4 Reports from other bodies**4.1 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.

4.2 PAP25

Input paper ANM21-4.2 refers.

The input paper was noted and pertinent points highlighted.

4.3 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.

4.4 NAV59

Input paper ANM21-4.4 refers.

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

4.5 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'.

5 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.

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5.1 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.

5.2 IALA Questionnaire (M2)

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

5.3 Offshore man-made structures (M3)

The rapporteur was unable to attend ANM21.

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

The rapporteur was unable to attend ANM21.

5.5 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.

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

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

5.7 IALA Dictionary (M7*)

The rapporteur was unable to attend ANM21.

The Chairman thanked the rapporteurs for their contributions.

6 Presentations**6.1 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!

6.2 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.

6.3 Stad vessel tunnel

Input paper ANM21-6.3 (presentation) refers.

Report of the ANM Committee

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 in Selje, Norway.

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

7 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

8 Working Group 1 – Navigational Requirements (WG1)

The WG commenced its work by reviewing the agenda items and tasks assigned. The Chair provided clarification on what work needed to be developed at ANM21 in order to allow the conclusion of the work programme 2010/2014.

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*)

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

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*)

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

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*)

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.

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*)

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

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*)

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

8.6 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.

8.7 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

9 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

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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)

9.1 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.

Report of the ANM Committee

- 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*)**

Completed in ANM20.

- 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*)**

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.

- 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*)**

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

- 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*)**

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

- 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*)**

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

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

Completed.

- 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*)**

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

- 9.9 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

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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.

9.10 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.

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*)

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

9.12 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.

10 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.

11 Review of Current Work Programme (2010 – 2014)

Input paper ANM21-11.1 refers.

The current work programme was not further reviewed.

12 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).

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- 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.

13 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.

14 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.

15 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.

16 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.

17 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.

18 List of Annexes

- 1 Agenda
A copy of the agenda is at Annex A.
- 2 Participants
A list of participants is at Annex B.
- 3 Working Group Participants
A list of working group participants is at Annex C.
- 4 Input Papers
A list of input papers is at Annex D.
- 5 Output and Working papers
A list of output and working papers is at Annex E.
- 6 Action Items
A list of action items is at Annex F.

ANNEX A 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
 - 1.1. Administration & Safety briefing
 - 1.2. Approval of the agenda
 - 1.3. Apologies and introductions
 - 1.4. Programme for the week
2. Review of action items from last meeting
 - 2.1. Review of actions from ANM20
 - 2.2. Final Report from ANM20 – for reference
3. Review of input papers
4. Reports from other bodies:
 - 4.1. Report from IALA Council – 55th Session, May 2013
 - 4.2. Report from PAP25, May 2013
 - 4.3. Report from MSC92, June 2013
 - 4.4. Report from NAV59, September 2013
 - 4.5. Report from IALA MSP Workshop
5. Report from rapporteurs:

5.1. Risk Management and Risk Models (M1*)	Jakob Bang
5.2. IALA Questionnaire (M2*)	Jorge Teles
5.3. Offshore manmade structures (OREI) (M3*)	Raven Kurtz
5.4. Development of e-Navigation within AtoN Authorities (M4*)	Gerry Brine
5.5. Development of e-Navigation for AtoN users (M5*)	Martin Bransby
5.6. Development of mobile marine products for AtoN users (M6*) Ledochowski	Marek
5.7. IALA Dictionary (M7*)	Robert Trainor
6. Presentations:

6.1. Brief on WWA	Stephen Bennett
6.2. S-100 Product Specifications for e-Navigation Krosness	Bjorn Erik
6.3. Stadtvesseltunnel Svino	Roger Njord

Report of the ANM Committee

7. Establish Working Groups
8. Working Group 1 – Navigational Requirements (WG1)
 - 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*) Complete
 - 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*) Complete
 - 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*)
 - 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*) Complete
 - 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*) Suspended
 - 8.6. Review IALA Recommendation O-139 on the Marking of Man-made Off-shore structures (Task 12*)
 - 8.7. Revision of the IALA questionnaire
9. Working Group 2 – Continuous Improvement (WG2)
 - 9.1. Co-ordinate a limited review of the IALA NAVGUIDE to incorporate amended IALA Recommendations and Guidelines and other necessary updates (Task 6*)
 - 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*) Complete
 - 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*)
 - 9.4. 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
 - 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*) Complete
 - 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*) Complete
 - 9.7. Co-operate with the other Committees in the project for AtoN Status / information exchange and associated metadata (Task 13*) Complete
 - 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*) Complete
 - 9.9. Review ANM Recommendations & Guidelines for updating (Task16*)
 - 9.10. Update IALA Guideline 1058 on the use of simulation as a tool for waterway design and AtoN planning (Task17*) Complete
 - 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*) Complete
 - 9.12. Review IALA Recommendation O-130 on Categorisation and Availability Objectives for Short Range Aids to Navigation (Task 19*) Complete

Report of the ANM Committee

10. Develop a Recommendation for navigational safety matters within Marine Spatial Planning (Task 15*)
11. Review of Current Work Programme (2010 - 2014)
12. Future Work Programme (2014 – 2018)
 - 12.1. Disaster recovery
13. Review of output and working papers
 - 13.1. Output papers
 - 13.2. Working papers
14. Any Other Business
15. Review of session report
16. Date and venue of next meeting
17. Close of the meeting

Report of the ANM Committee

ANNEX B ANM21 PARTICIPANTS**Countries****Australia Australian Maritime Safety Authority**

Mr David JEFFKINS
82 Northbourne Avenue
Braddon, ACT 2612
Australia

Phone +61 2 6279 5677
Fax +61 2 6279 5002
Mobile phone: +61 438 635 797
e-mail (main): david.jeffkins@amsa.gov.au
e-mail (alternative): dj@amsa.gov.au

Australian Maritime Systems

Mr. Errol JOPPICH
655 McArthur Av. Central
Pinkenba, QLD 4009
Australia

Phone +61 736 334 104
Fax +61 736 334 199
Mobile phone: +61 417 758 226
e-mail (main): etj@marsys.com.au

Canada Canadian Coast Guard

Mr John FESTARINI
Manager, Marine Navigation Policies
200 Kent Street
Ottawa, Ontario K1A 0E6
Canada

Phone +1 613 998 1381
Fax +1 613 998 8428
Mobile phone: +1 613 612 5022
e-mail (main): john.festarini@dfo-mpo.gc.ca

China MSA

**China
(People's
Republic of)**

Mr Rongwei LANG
11 Jianguomennei Avenue
Beijing 100736
China

Phone +86 22 5887 6906
Fax +86 22 5887 6904
Mobile phone: +86 18920280829
e-mail (main): captain_eric@sohu.com
e-mail (alternative): tjatn@public.tpt.tj.cn

Report of the ANM Committee

China MSA

Mr Wenzhi YANG
 190, Siping Road
 Hongkou District
 Shanghai
 P.R. of China

Phone +86 (0)21 660 72746
 Fax +86 (0)21 660 72744
 e-mail (main): yangwenzhi@msa.gov.cn

Denmark Danish Maritime Authority

Mr. Jakob BANG
 Marine Superintendent
 Carl Jacobsens Vej 26
 2500 Valby
 Denmark

Phone + 45 91 37 61 73
 Mobile phone: +45 20 52 85 41
 e-mail (main): cjb@dma.dk

Danish Maritime Authority

Mr Christian KOPP PEDERSEN
 Aids to Navigation Operations
 Carl Jacobsens Vej 31
 2500 Valby
 Denmark

Phone +45 24 69 07 20
 Mobile phone: +45 24 69 07 20
 e-mail (main): CKP@dma.dk

Danish Maritime Authority

Mr. Michael SKOV
 Head of Division
 Carl Jacobsens Vej 31
 2500 Valby
 Denmark

Phone + 45 91 37 61 71
 Fax + 45 91 37 60 01
 Mobile phone: + 45 20 53 25 84
 e-mail (main): msk@dma.dk

France Direction des Affaires Maritimes

M. Jean-Luc FONTAN
 MEEDDTL-DGITM-DAM
 La Grande Arche - Paroi Sud
 92055 La Défense cedex
 France

Phone + 33 (0)1 40 81 62 86
 Fax + 33 (0)1 40 81 80 72
 Mobile phone: + 33 6 73 34 17 99
 e-mail (main): jean-luc.fontan@developpement-durable.gouv.fr

Report of the ANM Committee

IALA IALA Committee Secretary

Mr. Wim VAN DER HEIJDEN
 10, rue des Gaudines
 78100 Saint-Germain-en-Laye
 France

Phone +33 1 34 51 70 01
 Fax +33 1 34 51 82 05
 e-mail (main): wim.vdh@iala-aism.org

IALA-WWA, Programme Manager

Mr Stephen BENNETT
 10 rue des Gaudines
 Saint Germain en Laye
 France

Phone +44 1243 533 148
 Fax +33 1 34 51 82 05
 Mobile phone: +44 7787 320 761
 e-mail (main): stephen.bennett@iala-aism.org

Indonesia Directorate General of Sea Transportation

Ms Tina DESIRINA
 Jl Medan Merdeka Barat N° 8
 Gedung Karya Lt 13
 Direktorat Kenavigasian
 Indonesia

Phone +62 21 3507 201
 Fax +62 21 350 534
 Mobile phone: +62 852 201 20145
 e-mail (main): tdesirina@ymail.com
 e-mail (alternative): tdesirina@gmail.com

Directorate General of Sea Transportation

Mr Agus Imam HANDOKO
 Mess Bahtera Suaka Blok A 2.9
 Jl Gunung Sahari Raya N° 65
 Jakarta Pusat
 Indonesia

Phone +62 804211824
 Fax +62 21 3506534
 e-mail (main): imam_aih@yahoo.co.id

Ireland Commissioners of Irish Lights

Capt Harold McCLENAHAN
 Harbour Road
 Dun Laghoaire
 Co. Dublin
 Ireland

Phone +353 1 27 15 542
 Fax +353 86 82 14 35
 Mobile phone: +353 868 201 435
 e-mail (main): h.mcclenahan@cil.ie

Report of the ANM Committee

Latvia Maritime Administration of Latvia, Hydrographic Service

Mr Aigars GAILIS
5, Trijadibas Street
LV-1048 Riga
Latvia

Phone +371 67062145
Fax +371 67062139
Mobile phone: +371 264 499 24
e-mail (main): aigars.gailis@lhd.lv
e-mail (alternative): aigars111@gmail.com

Netherlands Ministry of Infrastructure and The Environment

Mr Wim VERHAGEN
P O Box 5807
2280 HV Rijswijk
The Netherlands

Phone +31 70 336 66 00
Fax +31 70 319 4238
Mobile phone: +31 6 270 38 245
e-mail (main): wim.verhagen@rws.nl

Ministry of Infrastructure and the Environment

Mr Ernst BOLT
Postbus 5044
2600 GA Delft
The Netherlands

Phone +31 88 7982 508
Mobile phone: +31 6 513 312 06
e-mail (main): ernst.bolt@rws.nl
e-mail (alternative): ebolt@gmx.net

Norway Norwegian Coastal Administration

Mr. Bjorn Erik KROSNESS
Postboks 1502
NO-6025 Aalesund
Norway

Phone +47 70 23 10 54
Fax + 47 70 23 10 08
Mobile phone: +47 90 77 24 94
e-mail (main): bjorn.erik.krosness@kystverket.no

Norwegian Coastal Administration

Mr Roger Njord SVINO
Postboks 1502
N-6025 Aalesund
Norway

Phone +47 701 601 60
e-mail (main): roger.njord.svino@kystverket.no

Report of the ANM Committee

Norwegian Coastal Administration

Mr Guttorm TOMREN
Kongensgt. 11
6002 Aalesund
Norway

Phone +47 7023 1150
Mobile phone: +47 907 92 874
e-mail (main): guttorm.tomren@kystverket.no

**Oman,
Sultanate of****Arabian Maritime & Navigation Aids Services**

Mr Khalil AL BALUSHI
P.O. Box 1677
CPO Seeb, PC 111
Oman, Sultanate of

Phone +968 24462000
Fax +968 24 46 2010
Mobile phone: +968 99249200
e-mail (main): khalil@amnas-oman.com

Peru**Direccion de Hidrografia y Navegacion**

Capt Julio VILCHEZ MOSCOSO
Calle Roca 118
Chucuito, Callao
Peru

Phone +511 988 081 726
e-mail (main): jvilchez@dhn.mil.pe

Poland**Urząd Morski w Gdynia**

Mr Marek LEDOCHOWSKI
ul. Chrzanowskiego 10
81-338 Gdynia
Poland

Phone +48 58 620 63 65
Fax +48 58 620 19 36
Mobile phone: +48 601 162 950
e-mail (main): marek.ledochowski@umgdy.gov.pl
e-mail (alternative): marekjola@hotmail.com

Portugal**Direcção de Faróis**

Mr Arlindo SANTOS
Estrada Marginal
2770-210 Paço de Arcos
Portugal

Phone +351 21 44 61 660
Fax +351 21 44 10 193
e-mail (main): dirfarois@sapo.pt
e-mail (alternative): arlindo.ferreira.santos@marinha.pt

Report of the ANM Committee

Direcção de Faróis

LtCdr Jorge TELES
Estrada Marginal
2720-210 Paço de Arcos
Portugal

Phone +351 21 446 1666
Fax
Mobile phone: +351 9166 30653
e-mail (main): santos.teles@marinha.pt

Hidrographic Institute

Cdr. Nuno SOUSA RODRIGUES
Rua das Trinas - 42
1249-093 Lisboa
Portugal

Mobile phone: +351 91 786 5869
e-mail (main): sousa.rodrigues@marinha.pt
e-mail (alternative): souse.rodrigues@hidrografico.pt

Rep of Korea Korea Association of Aids to Navigation

Mr Youngguk SUCK
N° 12F Lt Castle 2
371-16 Gasan
Gasan Geumcheon
Rep of Korea

Phone +82 2627 8301
Fax +82 2 2627 8315
Mobile phone: +82 17 520 6968
e-mail (main): seok6968@hanmail.net

Korea Association of Aids to Navigation

Mr Minsu JEON
N°12F, IT Castle 2
371-16 Gasan
Gasan, Geumchen
Republic of Korea

Phone +82 2 2627 8312
Fax +82 2 2627 8315
Mobile phone: +82 10 9850 3448
e-mail (main): minsuids@gmail.com
e-mail (alternative): minsuids@hanmail.net

Scotland Northern Lighthouse Board

Captain Phil DAY
84 George Street
Edinburgh EH2 3DA
Scotland

Phon +44 131 473 3190
Fax +44 131 226 3615
Mobile phone: +44 7785 300 366
e-mail (main): phild@nlb.org.uk

Report of the ANM Committee

Senegal Port Autonome de Dakar

Mr Massène SENE
 21 Blvd de la Liberation
 B.P. 3195 Dakar
 Senegal

Phone +221 776 43 53 72
 e-mail (main): massene.djaraf@gmail.com

Sweden Swedish Maritime Administration

Mr Johan WESTERLUND
 Diamantvägen 47
 611 44 Nyköping
 Sweden

Phone +46 10 478 48 30
 Mobile phone: +46 708 19 14 44
 e-mail (main): johan.westerlund@sjofartsverket.se
 e-mail (alternative): waez@hotmail.com

Swedish Transport Agency

Mr Mats HÖRSTRÖM
 Maritime Department
 S-601 73 Norrköping
 Sweden

Phone +46 10 495 33 29
 Mobile phone: +46 76 721 10 43
 e-mail (main): mats.horstrom@transportstyrelsen.se
 e-mail (alternative): sjofart@transportstyrelsen.se

Swedish Transport Agency

Mr Johan PETERSSON
 Maritime Department
 S-601 73 Norrköping
 Sweden

Phone +46 10 495 33 34
 Mobile phone: +46 76 72 10 47
 e-mail (main): johan.pettersson@transportstyrelsen.se

UK General Lighthouse Authorities of UK & Ireland

Mr Martin BRANSBY
 The Quay
 Harwich
 Essex
 UK

Phone +44 (0)1255 245 042
 Mobile phone: +44 (0)7770 265 652
 e-mail (main): martin.bransby@gla-rrnav.org

Report of the ANM Committee

Pharos Marine Ltd.

Mr. Owen JAMES
Steyning Way
Hounslow, Middlesex
TW4 6DL
UK

Phone +44 20 8538 1100
Fax +44 20 8577 4170
Mobile phone: +44 7767785794
e-mail (main): ojames@pharosmarine.com

Tideland Signal Ltd.

Mr. Ian BURGESS
Kendal House
Victoria Way
Burgess Hill West Sussex RH15 9NF
UK

Phone +44 1444 87 22 40
Fax +44 1444 87 22 41
Mobile phone: +44 7799646445
e-mail (main): iburgess@tidelandsignal.ltd.uk

Trinity House Lighthouse Service

Capt Roger BARKER
Diretor of Navigational Requirements
Tower Hill
EC3N 4DH
UK

Phone +44 207 481 6917
Mobile phone: +44 7785 111 519
e-mail (main): roger.barker@thls.org

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

	Name	Organisation / Country
1	Roger Barker (Chairman)	THLS / England & Wales
2	Jorge Teles (Vice Chairman)	Direcção de Faróis / Portugal
3	Harry McClenahan	CIL / Ireland
4	Jean Luc Fontan	Direction des Affaires Maritimes / France
5	Jakob Bang	DMA / Denmark
6	Christian Pedersen	DMA /Denmark
7	Owen James	Pharos Marine / UK
8	Marek Ledochowski	Urząd Morski w Gdynia / Poland
9	Mats Horstrom	Swedish Transport Agency / Sweden
10	Rongwei Lang	China MSA / People's Republic of China
11	Ian Burgess	Tideland Signal / UK
12	Roger Nord Svinø	NCA / Norway
13	Aigars Gailis	Latvian Maritime Administration / Latvia
14	Johan Pettersson	Swedish Transport Agency / Sweden
15	Nuno Rodrigues	Hidrographic Institute / Portugal
16	Wim Verhagen	Ministry of Infrastructure & the Environment / The Netherlands
17	Julio Vilchez Moscos	Dirección de Hidrografía y Navegación / Peru

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Working Group 2 Continuous Improvement

	Name	Organisation / Country
1	John Festarini (Chairman)	Canadian Coast Guard / Canada
2	Bjoern Erik Krosness (Vice Chairman)	Norwegian Coastal Administration / Norway
3	Ernst Bolt	Ministry of Infrastructure and the Environment / The Netherlands
4	Martin Bransby	GLA R&RNAV / UK
5	Minsu Jeon	Korea Association of AtoN / Republic of Korea
6	Errol Joppich	AMS / Australia
7	Arlindo Santos	Portuguese Lighthouse Authority / Portugal
8	Tina Desirina	DGST Directorate of Navigation / Indonesia
9	Agus Imam Handoko	DGST Directorate of Navigation / Indonesia
10	Guttorm Tomren	NCA / Norway
11	Youngguk Suck	Korea Association of AtoN / Republic of Korea
12	Johan Westerlund	SMA / Sweden
13	Wenzi Yang	China MSA / People's Republic of China
14	Massene Sene	Port Autonome de Dakar / Senegal
15	David Jeffkins	AMSA / Australia

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ANNEX D 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		Resilient 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 Stadtvesseeltunnel	
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

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Meeting	Agenda Item	Revision	Title / Author (if required)	Presented by / WG
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	

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ANNEX E 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

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ANNEX F 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
2. The Secretariat is requested to put ANM21-4.5 on the IALA web: 'Publications – Reports and Proceedings'. 8
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
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
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
6. The Secretariat is requested to forward the liaison note on the questionnaire (ANM21-13.1.1.1) to Council for approval. 11
7. The Secretariat is requested to forward the IALA Questionnaire (ANM21-13.1.1.2) to Council for approval 11
8. The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM21-13.1.2.1) to the Secretariat. 12
9. The Secretariat is requested to forward the Liaison Note on the NAVGUIDE (ANM21-13.1.2.3) to ANM22. 12
10. The Secretariat is requested to forward the revised edition of the NAVGUIDE (ANM21-13.1.2.2) to Council to note. 12
11. The Secretariat is requested to forward the draft revised Recommendation O-132 (ANM21-13.1.2.4) to Council for approval. 13
12. The Secretariat is requested to forward the draft revised Guideline 1052 (ANM21-13.1.2.5) to Council for approval. 13
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
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
15. The Secretariat is requested to forward the amended Future Work Programme 2014-2018 (ANM21-12.2) to PAP26 for consideration. 15
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
17. The Secretariat is requested to forward the report of ANM21 (ANM21-15) to the Council to note. 15

Action Items for Members

18. All ANM members are kindly reminded to send any photos for inclusion in the NAVGUIDE inter-sessionally to John Festarini. 12