



REPORT OF THE 65TH SESSION OF THE IALA COUNCIL

(12-15 December 2017, IALA Headquarters)



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OPENING

The 65th session of the IALA Council was held at IALA Headquarters. The meeting was opened at 10h00 on 12 December 2017 by Mr. Juan Francisco Rebollo, IALA President.

1. PRESIDENT'S OPENING REMARKS

The IALA President thanked warmly the participants and welcomed the delegates who were in attendance for the first time as representatives of Denmark, India, Portugal and the US, as well as the many Councillor assistants and the IMC observer, not forgetting the IALA Secretariat.

2. APOLOGIES FOR ABSENCE

The President informed the Council that apologies for absence had been received from Rear Admiral Schwarzenberg of Chile, Mr Ousseynou Ndiaye of Senegal and Mr Levent Kalfa of Turkey with no substitutes nominated. The Councillors for Australia and Ireland had been prevented from attending but had sent substitutes. The IMC Observers Clive Quickenden and John Sugarman had sent apologies but arranged to be represented by a substitute.

A list of participants in the meeting is at Annex B.

3. APPROVAL OF THE AGENDA

The draft Agenda (input paper C65-3.1.1) was amended. Item 17.1 was moved to Agenda item 11 with the number 11.6 – Withdrawal of IALA Recommendation P-137 and two new items were added as 8.4.1 – IALA Risk Register, and 13.1.3 – IMO Assembly 30. The approved Agenda is at Annex A.

The draft Programme for the Week (input paper C65-3.2.1) was noted.

4. VACANT POSITION WITHIN COUNCIL

There was no vacant position within the Council.

5. REPORT OF THE 64th SESSION

5.1 Matters arising from the session

Events and Document Co-ordinator Marie-Hélène Grillet reported that all action items from the 64th session were completed.

With regard to action item 11 that requested to enquire about the reason for rejecting IALA's application for observer status at the Arctic Council Secretary-General Francis Zachariae said that only a few applications were accepted mainly due to limitations in meeting space. IALA will re-apply in some years' time.

6. NATIONAL MATTERS

All participants reported on national matters of particular interest to the Council.

The following indicates the projects, or matters of concern, that are common to several countries. Individual issues are not reported.

- DGNSS: Some GDNSS networks are in the process of being upgraded for enhanced capacity and accuracy.
- Strategic plans: based on the new ecosystem of the maritime environment including autonomous vessels, some countries are developing and updating their strategic plans.

- Challenges for the future: autonomous vessels are on trial phase and will impact the current role of VTS and AtoN in the future; cybersecurity is a major issue, especially for VTS.
- Cooperation with neighbouring countries, on projects of various natures, was reported by many Councillors.
- Capacity building and training: There are concerns about new technicians being less skilled than before and, although outside IALA's core business, there is also a concern about sea going personnel not being trained at the right level with regard to new technologies. All L1 (managers) training courses are delivered in accordance with the IALA Model Course and often with the support of the WWA.

The reports were noted. Those that were provided in writing appear at Annex C and will be made available to the Committees for their information. The Councillor for Japan made a presentation on a new rotating system for historic lighthouses. This presentation is available from the Website.

7. REPORT BY THE SECRETARY-GENERAL

Secretary-General Francis Zachariae presented his report to the Council (input paper C65-7 refers).

At IMO he had attended the first days of the 30th General Assembly before the new Technical Operations Manager, Minsu Jeon, took over. He introduced Minsu Jeon, who on top of his various tasks as Operations Manager will also be the IALA accredited representative at IMO. He then congratulated the members of the IALA Council who had been elected to seat at the IMO Council.

The period since the last Council meeting was very busy and productive. The membership had grown to 279 which was 9 more members than the last year at the same time. The Secretariat was successful in recovering outstanding membership fees, although some members are still in arrears.

The participation in the Committee work is still overwhelming with up to 140 participants in some sessions.

The refurbishment of all offices and meeting rooms and the installation of new Wi-Fi, a file share system, smart IT and video-conferencing facilities were completed and the branding project was finalized. In addition, a complete overhaul of the website has been a high priority to serve the membership even better and present the Association to the wider maritime community as an up-to-date, effective, visible, outreach-oriented and cooperative organization.

Work on the IALA Core Values was concluded as the result of a two day workshop hosted by Irish Lights, who played the customer, with 4 IALA core values: Credible, Dynamic, Result-oriented and Connecting. The Secretary-General expressed his thanks to the Irish Lights for their support to this important result. 2017 had been a year of investments but the facilities for the Committees and the staff were improved.

At several occasions Council had noted that it was important to increase the capacity of the Secretariat. The present structure includes one additional position into the technical area, and one position in the administrative area. The position in the administrative area was still to be filled, with preferably with somebody having Spanish skills.

The World-Wide Academy was believed to be sufficiently staffed with a permanent Dean, a permanent Programme Manager and two part time advisors, one of them being the Vice-Dean, as well as experts on a consultancy basis.

IALA's work as a partner in the EU supported project EfficienSea 2 – led by Danish Maritime Authority - was proceeding to plan with the support of Honorary member Dr Nick Ward, engaged part-time to manage IALA's task in the project.

A new opportunity for a Risk Management project had arisen through the WWA sponsor IFAN. This new initiative will provide IALA with an opportunity to obtain funding to develop further the IALA Risk Management Toolbox, improving its utility as the internationally recommended Risk Management Toolbox for Marine Aids to Navigation

Management Authorities, as well as IALA-NET as the primary source of data for the IALA Risk Management Toolbox in a more user friendly and automatic manner.

With regard to the important Change of Status Project, the Secretary-General thanked the Government of France and the Direction des Affaires Maritimes for their support to the Pre-Diplomatic Conference held in April 2017 and the Pre-Diplomatic Conference scheduled in Marrakech 7-8 February 2018.

There was a lot of support, concerns and questions at the April conference but a roadmap towards a final Diplomatic Conference was approved as the most important document.

A Seminar on Arctic Navigation with participants from the Arctic States was held in November in IALA, which produced 6 important conclusions for the future work.

At the General Assembly in May 2018 the Council will submit the draft 7 Standards, the draft new Strategic Vision and the draft new Committee structure for noting or approval. All these important documents have been prepared by the Secretariat in internal workshops, in the Committees, in the Policy Advisory Panel and in the Council Strategy Drafting Group.

As it was the end of the 4-year work period new Committee Chairs and Vice Chairs would need to be appointed. Some of the present ones would continue but some had to step down and the new Council – to be elected at the General Assembly - will have to elect new ones.

The Secretary-General thanked all Chairs and Vice Chairs for the excellent results and the hard work they are doing for IALA and the safety of navigation in the world.

The huge number of input papers to this Council session gave evidence that the Committees had been very productive and hard working. The Secretary-General then briefly highlighted some of the input papers from the Committees, which would be discussed further under the coming Agenda items.

The Secretary-General's report was noted.

8. STRATEGY AND POLICY

8.1. 13th General Assembly

8.1.1 Progress report on preparation works

Events and Document Co-ordinator Marie-Hélène Grillet reported that good progress had been made in the preparation of the General Assembly. The provisions of the General Regulations with regard to the organisation of the Assembly had been applied with:

- All National members being circulated with an invite to submit subjects to address at the General Assembly by 28th January;
- All National members being invited to submit their candidacy for Council by 28th March 2018 by the means of a standard wording that had been approved by the Council inter-sessionally.

At the time of the Council three National members had indicated that they were candidates for the Council for the period 2018-2022.

As opposed to previous General Assemblies there will be one session only, held on 29th May 2018. An electronic voting system will be used for all decisions, including Council election.

Official invitations will be sent in early January 2018 and General Assembly papers, including candidates for the Council, will be made available to all members by 29th March 2018.

As part of its Agenda the General Assembly would have to approve the 7 standards, the strategic vision and a revised Constitution.

Input papers will be submitted in English and French but simultaneous translation will be provided in English, French and Spanish.

8.1.2 Draft IALA Standards

Deputy Secretary-General Michael Card presented input paper C65-8.1.2, which was an explanatory note providing the background to the Standards, including the invitation extended to the Council at session 64 to comment on them by 31st July, and the time table for the General Assembly. He then drew attention to paper C65-8.1.2.1, which gave the list of the standards to be quoted, paper C65-8.1.2.2 – a map of standards with their respective topics, and C65-8.1.2.3 to C65-8.1.2.9 presenting the individual draft standards.

The Council was then invited to comment and approve the individual standards, with a remark that minor changes in the formulation of the IALA goals would be required in case of approval of the revised Strategic Vision.

The Councillor for Ireland said that implementing the standards would take time, especially with regard to training, and he expressed concerns regarding his Authority not being able to claim conformity immediately after the standards have been approved, although the personnel of Irish Lights are experienced and skilled.

Action item 1:

The Secretariat was invited to consider providing for a transitional period after the standards are approved by the next General Assembly.

The Councillor for Germany, supported by the Councillor for the USA, had the remark that some recommendations are not in accordance with national laws. Therefore, the AtoN Authorities of the countries concerned will never be able to claim conformity.

To these main remarks Deputy Secretary-General Michael Card answered that conformity with the standards was – in the Strategic Vision – a goal for 2026 and he acknowledged the need for a transitional period, adding that conformity may also be partial.

At the initiative of the Councillor for The Netherlands there was a short discussion about Recommendation V-120 – Vessel Traffic Services in Inland Waters, which was listed as an informative Recommendation in draft Standard 1040 – Vessel Traffic Services. She was of the opinion that this Recommendation should be normative.

The need of continuity between sea traffic and inland navigation was recognized; however, inland navigation being outside the direct scope of IALA, the decision was to keep it informative.

The Council noted the Table of Standards and Recommendations and the Standards Map.

The Council approved the forwarding to the General Assembly of the seven draft Standards:

- **1010 – AtoN Planning and Service Requirements**
- **1020 – AtoN Design and Delivery**
- **1030 – Radionavigation Services**
- **1040 – Vessel Traffic Services**
- **1050 – Training and Certification**
- **1060 – Digital Communication Technologies**
- **1070 – Information Services**

subject to small editorial amendments in the formulation of the IALA goals, should be revised Strategic Vision be approved.

Action item 2:

The Secretariat was requested to amend the standards in accordance with the change in the goals, should the amended Strategy Vision be approved.

8.1.3 Draft Revised IALA Constitution

Secretary General Francis Zachariae introduced input paper C65-8.1.3.1 – Revised IALA Constitution, highlighting the main changes (refer to Introductory note, input paper C65-8.1.3).

The discussions focused on the introduction of electronic General Assembly vote and the change in Article 11 with membership “contributions” replaced by “subscriptions” and the necessary consistency with the General Regulations.

The proposal to have General Assembly electronic vote changed to General Assembly electronic session was considered, with a view to involve Associate and Industrial members. It was recognized however that this paragraph had been added to cater for a potential urgent approval of an amended standard, which was likely to be the only occasion where the Council may need an electronic vote. Also, this would give flexibility.

With regards to “subscriptions” Secretary-General Francis Zachariae explained that this change ensured consistency throughout the document and also was the term normally used in NGOs.

The Council approved the forwarding of the revised IALA Constitution to the next General Assembly.

8.1.4 Council’s proposals

There was no proposals received from the Council for matters to be discussed under this Agenda item.

8.2. Policy Advisory Panel

Deputy Secretary-General Michael Card started with an overview of all papers presented under this Agenda item (input paper C65-8.2.1) and briefly summarized the aim and composition of the Policy Advisory Panel. He added that Councillors had been invited to send comments on the draft Strategic Vision, the Position on the Development of AtoN Services and the Committee structure 2018-2022, and the comments received had been taken into account in the papers submitted under the next Agenda items.

8.2.1. Report of PAP34

Input paper C65-8.2.1.1 refers.

Deputy Secretary-General Michael Card reported that the meeting focused on the completion of the strategy documents, the Committee structure and the standards and their associated recommendations. PAP 35 was planned for February 2018 to consider any decisions made at this Council session.

The Council **noted** the report of PAP34.

8.2.2. Strategic Vision 2018-2026

Deputy Secretary-General Michael Card said that the Strategic Vision prepared by the Secretariat with the support of PAP had been reviewed the day before at a meeting of the Council Strategy Drafting Group under the leadership of Mr Christian Forst, Councillor for Germany.

Christian Forst reported on the work of the Group and especially to the amendment made to the formulation of Goal 2 to introduce sustainability.

The report of the Council Strategy Drafting Group meeting is at Annex D.

On a proposal by the Councillor for The Netherlands Strategy 3 was amended to read: “Coordinate the development of Marine Aids to Navigation, taking into account evolving operational and functional requirement, new techniques, new technologies and sustainability.”

The Council approved the forwarding of the draft Strategic Vision to the General Assembly with these two amendments.

8.2.3. Position on the Development of AtoN Services

Deputy Secretary-General Michael Card introduced input paper C65-8.2.3.1. He said that this would be an evolving document, useful for the members that are not seating at the Council. A first draft had already been submitted to Council session 64, after which a number of remarks had been received, which were taken into account when the document was reviewed by PAP at its last session.

There was some discussion and amendments were requested in sections 2.1 – Driver 1, Volume of traffic and degree of risk, 7.1.5 – Providing AtoN services in extreme climates, and 9.1.2 – Sea Traffic Management, the latter being taken out.

The Councillor for The Netherlands, supported by the Councillor for Germany, was of the opinion that section 12.1.5 – Cyber-security should be stronger.

In view of the many likely updates adding a section on the document history was also felt desirable.

The Councillor for Australia made the comment that input from the shipping industry may be useful.

The Council approved the Position on the Development of AtoN Services as amended, requesting the Secretariat to give further consideration to Cyber-security.

8.2.4. Recommendations plan for standards

Deputy Secretary-General Michael Card introduced input paper C65-8.2.4.1 as a management document for PAP and guidance for the Committees.

The Council noted the Recommendations plan for standards

8.2.5. Committee structure 2018-2022

Deputy Secretary-General Michael Card introduced input paper C65-8.2.5.1 and drew the Council's attention to the change in the name of the ENAV Committee, although the acronym was retained. A redistribution of tasks was also planned between the ENAV and other Committees.

Also the Councillors were aware of the need to reduce the number of participants in the ENAV Committee they had concerns about the redistribution of tasks, especially with regard to data modelling and PNT that were allocated to other Committees. The Councillor for the Republic of Korea stated that PNT is a key element of e-Navigation and should remain, theoretically, in the ENAV Committee.

The Secretariat explained that there would be joint meetings of the Committees concerned and the Councillor for Ireland said that this would be a good way to improve cooperation between Committees.

The Council approved the forwarding of the proposed new structure to the Council to be elected in May 2018.

8.2.6. Committee work programme 2018-2022

Input paper C65-8.2.6 refers.

Deputy Secretary-General Michael Card said that the work programme was still under development and would be finalized at PAP35. The draft programme will then be forwarded to Council 66 for further refinement before they are approved at session 67 by the newly elected Council.

The Council noted this information.

8.2.7. Retirement of Committee Chairs and Vice Chairs

8.2.8. Nomination of Committee Chairs and Vice Chairs

These Agenda items were presented together by Secretary-General Francis Zachariae who reminded that Council, at its 64th session, had agreed a change to the General Regulations to provide for terms and termination of the positions of Committee Chair or Vice Chair.

At the same session it was agreed however that the current Chairs and Vice Chairs could be reappointed, if nominated, for another 4 year term. Some Chairs and Vice Chairs had advised that they were prepared to continue, while others would step down.

The Secretariat will inform National members of the coming vacancies, provide advice on the selection process and seek nominations in early 2018.

The Council noted the information.

8.3. IALA Change of Status

Input paper C65-8.3.1 refers.

Secretary-General Francis Zachariae reported that on the initiative of the Ministry of Foreign Affairs and International Development of the Republic of France, IALA's host country, a preparatory diplomatic conference took place in Paris on 18 and 19 April 2017 to consider the concrete steps needed to achieve IALA's planned change of status to that of an Intergovernmental Organization.

Chaired by His Excellency, Mr Serge Ségura, French Ambassador for the Oceans, the Conference agreed a Roadmap towards a Diplomatic Conference to adopt a new treaty instrument.

The large attendance at the Paris conference set the scene for two days of active participation by 173 delegates representing 56 countries from around the world where IALA has National members. The programme was designed to widen understanding and allow for an open exchange of views and comments on various aspects pertaining to the transition of IALA as an Association under French law to effective IGO status.

The main outcome of the conference was a clear indication of a genuine willingness to move forward towards multilateral negotiations at a follow-up conference with the widest possible participation.

A second preparatory diplomatic conference is therefore planned for 7-8 February 2018 in Marrakech by invitation from the Kingdom of Morocco. Invitation to all National members and Point of Contacts in the Ministries of Foreign Affairs have been issued. The Conference will take place at Le Palais des Congrès in the Mogador Palace AGDAL Hotel and will commence consideration of the provisions of the draft Convention, Article by Article, and those of the draft General Regulations.

When IALA is an IGO all States parties may wish to be consulted about matters that will impact the governance of the organisation. This has required some decisions which are currently made by Council being elevated to the General Assembly level, such as election of the Secretary-General, decision on contributions and fees, etc.

This was made clear at the first Preparatory Diplomatic Conference and the many comments received from National members. The draft Convention text was revised during the extraordinary meeting of the LAP (EXLAP3) in October 2017 to reflect these views. Similarly, the procedure for making amendments to the Convention was modified so that it will not come into force for a State party until acceptance by it, again reflecting comments received.

In addition to the report of the Extraordinary meeting of the Legal Advisory Panel (input paper C65-8.3.1) all papers from the meeting, including all changes made to the Draft Convention and General Regulations, had been made available from the IALA website, as well as all relevant background information, briefings, reports and input papers, for the ease of reference.

Almost all input papers for the Preparatory Diplomatic Conference in Marrakech were also available in English on the website and were about to be uploaded in French and Spanish.

The Councillor for Japan reported that no draft report had been circulated to the participants in LAPEX3 for approval, therefore he could not accept this report as the official report of LAPEX3. He then added that the meeting was comprised of Marine Aids to Navigation authorities only and as such was not qualified to agree changes to the draft Convention and General Regulations texts and the comments made should be submitted again to the 2nd Pre-Diplomatic Conference.

The Councillor for The Netherlands asked the reason why the interval between General Assemblies was reduced to 3 years and expressed concerns about the translation costs if IALA as an IGO has more languages.

Secretary-General Francis Zachariae answered that:

- the comments received on the draft texts for the Convention and General Regulations would be made available to the 2nd Preparatory Diplomatic Conference as supporting papers;
- the interval between General Assemblies had been reduced due to the number of decisions to be made by the General Assembly of IALA as an IGO, compared to its present status of NGO; and
- the number of languages was a decision for the Diplomatic Conference. IALA had already considered the issue and the conclusion was that one more employee per working language would be needed and possibly some consultants. Also, the IGO could have less working languages than official languages.

The Council noted the information and the related comments.

8.4. Legal Advisory Panel (LAP)

8.4.1. IALA Risk Register

Input papers C65-8.4.1 and C65-8.4.1.1 refer.

Secretary-General Francis Zachariae informed the Council that LAP had no ordinary meeting since the last Council in Incheon, but the Chair had updated the Risk Register.

LAP first prepared a List of IALA's Main Activities and Associated Risks in May 2007. The risks were (and remain) for the most part of a legal / liability nature. The document listed the mitigation in place against each risk; the level of risk in terms of low, medium or high; and any action required. The overall level of risk faced by the organization was assessed as static / falling.

The Council noted the report and the associated Risk Register.

8.5. World Marine Aids to Navigation Day

Input paper C65-8.5 refers.

President Juan Francisco Rebollo introduced the proposal of establishing a World Marine Aids to Navigation Day as an opportunity to raise awareness on AtoN. Coordination with the International Lighthouse Day, managed by associations of former lightkeepers, individual lighthouse authorities and other stakeholders, was discussed. The conclusion was that lighthouses, being heritage symbols, would distract the public's attention from the AtoN, which are of another nature.

The Council agreed that the Secretariat should prepare an input to the General Assembly for the establishment of a World Marine Aids to Navigation Day, preferably on 1st July, which is the date of the creation of IALA.

Action item 3:

The Secretariat should prepare an input to the General Assembly for the establishment of a World Marine Aids to Navigation Day, preferably on 1st July, the date of IALA's creation.

9. FINANCE AND AUDIT COMMITTEE REPORT

IALA Treasurer Captain Ian McNaught introduced input papers related to financial matters.

9.1. Budget for 2018

Input papers C65-9.1 and C65-9.1.1 refer.

The Budget for 2018 was approved.

9.2. Outline budget for 2018-2021

Input papers C65-9.2 and C65-9.2.1 refer.

The outline budget for 2019-2021 was noted.

9.3. Cash Flow Situation as of 31st October 2017

Input papers C65-9.3 and C65-9.3.1 refer.

The cash flow situation as of 31st October 2017 was noted.

9.4. Membership contributions status

Input paper C65-9.4 refers.

The Council noted the information provided. Suspensions or terminations of membership were to be decided under Agenda item 15.3.

The Council noted also that ASTER S.p.A. had started settling their debts and should no longer be considered for a termination of membership.

10. INDUSTRIAL MEMBERS COMMITTEE

Mr James West forwarded apologies for absence from the regular IMC Observer Clive Quickenden.

He then reported that the IMC was in a healthy position with an available balance of EUR 299,000 at the end of October, administered by the IALA Secretariat. After an evaluation of the exhibition and industrial evening costs the IMC would consider, provided that funds are still available, devoting EUR 20,000 to sponsor the participation in the Conference of delegates from developing countries.

With regard to the industrial exhibition, the IMC was pleased that all available booths had been booked making necessary to increase this number to 82, against 70 originally planned.

He concluded his report in thanking the Korean Organisers for their unfailing support and assistance.

The Council noted the information provided.

10.1. Steve Nell Scholarship

James West reported on a proposal following the death of the South African member of the IMC, Steve Nell, who passed away on 29th October.

The proposal (input paper C65-10.1) was to offer an annual scholarship for the training of AtoN personnel of the African continent. It would be considered at the next Industrial Members General Meeting in 2018 in Korea.

If agreed, it would be officially announced at the end of the Conference.

The Council noted the information.

11. IALA TECHNICAL ACTIVITIES

11.1. ARM Committee

11.1.1. Summary report of ARM7

Input paper C65-11.1.1 refers.

Secretary-General reported on the last ARM meeting, where two recommendations were finalized. He then introduced all papers pertaining to this ARM meeting.

The Council noted the summary report of ARM7.

11.1.2. Draft liaison note to ITU-R WP5B on MAtoN

Input papers C65-11.1.2, C65-11.1.2.1 and C65-11.1.2.2 refer. The liaison note was to indicate IALA's position on matters discussed at ITU-R at its meeting in November. Both the liaison note and the brief to IALA delegates at the meeting had been approved by the Council by correspondence and forwarded to ITU and to all National members respectively.

The Council noted this information.

11.1.3. ARM draft Recommendations and Guidelines

Input paper C65-11.1.3 refers. It presents Recommendations and Guidelines completed by the ARM Committee and submitted to the Council for approval.

11.1.3.1. Draft IALA Recommendation R1016 – Mobile AtoN (MAtoN)

Input paper C65-11.1.3.1 refers.

This new Recommendation provides advice on the use of Mobile AtoN radio devices, which are likely to operate on the AIS channels. Mobile AtoN are a new development amendments to the recommendation can be expected as knowledge grows.

The Councillor for Ireland expressed some doubts with regard to Mobile AtoN in a towed array being an AtoN or associated with the ship and whether AtoN authorities qualified to approve such AtoN.

The Council approved IALA Recommendation R1016 – Mobile AtoN (MAtoN).

Action item 4:

The Secretariat was requested to forward the comment on MAtoN to the ARM Committee for consideration as part of its future work programme.

11.1.3.2. Draft IALA Guideline G1137 – AtoN Management in Protected Areas

Input paper C65-11.1.3.2 refers.

This important document concerned with AtoN operations in Protected Areas and in marine Protected Areas describes principles and provides some examples. It is an important contribution to the growing number of IALA Guidance documents concerned with environment protection.

The Council approved IALA Guideline G1137 – AtoN Management in Protected Areas.

11.1.3.3. Draft IALA Guideline G1138 – The Use of the Simplified IALA Risk Assessment Method (SIRA)

Input paper C65-11.1.3.3 refers.

This is a new and important contribution to the IALA's Risk Toolbox that draws on earlier work by IALA in 2012 and after that by the WWA. It consists in a simplified risk matrix approach (simplified PAWSA). SIRA was used in Oman and Bahrain. The Guideline explains the SIRA process and advises on its correct use.

The Council approved IALA Guideline G1138 – The Use of the Simplified IALA Risk Assessment Method (SIRA)

11.1.3.4. Draft IALA Recommendation R0130(O-130) Ed3.1 – Categorisation and Availability Objectives for Short Range Marine Aids to Navigation

Input paper C65-11.1.3.4 refers.

This Recommendation was approved in June and this latest version 3.1 involves the minor change of removing reference to Recommendation E105.

The Council approved IALA Recommendation R0130(O-130) Ed3.1 – Categorisation and Availability Objectives for Short Range Marine Aids to Navigation.

11.1.4. Draft IALA Recommendation R1015 – Marking of Hazardous Wrecks

Input papers C65-11.1.4 and C65-11.1.4.1 refer.

As a result of The Nairobi International Convention on the Removal of Wrecks 2007, IALA Council determined a need to:

- a) develop a Recommendation for the marking of hazardous wrecks, and
- b) Provide guidance on the marking of hazardous wreckage including new and drifting wrecks.

ARM7 has developed and finalised for Council approval a Recommendation for the marking of hazardous wrecks. This recommendation illustrates the requirements of The Nairobi International Convention on the Removal of Wrecks 2007.

This document closes a significant gap in IALA Recommendations on the marking of wrecks and provides an important reference to National authorities in fulfilling their international obligations.

The Council approved IALA Recommendation R1015 – Marking of Hazardous Wrecks.

11.1.5. Draft IALA NAVGUIDE – 2018 Edition

Input papers C65-11.1.5 and C65-11.1.5.1 refer.

The NAVGUIDE will be produced both on paper and in digital format. The digital version will be available to all free of charge.

The Council approved the text of the 2018 edition NAVGUIDE, noting that it will then be professionally designed.

11.2. ENG Committee

11.2.1. Summary report of ENG7

Input paper C65-11.2.1 refers.

The Council noted the summary report of ENG7.

11.2.2. ENG papers submitted for approval

Input paper C65-11.2.2 summarizes and gives information on the input papers submitted by the ENG Committee for approval and should be referred to for details on the documents listed in this section of the report.

11.2.2.1. Draft IALA Recommendation R0201(E-200-1) Ed.2 – Marine Signal Lights – Colours

Input document C65-11.2.2.1 refers.

The Council approved IALA Recommendation R0201(E-200-1) Ed.2 – Marine Signal Lights – Colours

11.2.2.2. Draft IALA Recommendation R0202(E-200-2) Ed.2 – Marine Signal Lights – Luminous Range

Input document C65-11.2.2.2 refers.

The Council approved IALA Recommendation R0202(E-200-2) Ed.2 – Marine Signal Lights – Luminous Range

11.2.2.3. Draft IALA Recommendation R0204(E-200-4) Ed.2 – Marine Signal Lights – Determination and Calculation of Effective Intensity

Input documents C65-11.2.2.3 refers.

The Council approved IALA Recommendation R0204(E-200-4) Ed.2 – Marine Signal Lights – Determination and Calculation of Effective Intensity.

11.2.2.4. Draft IALA Recommendation R0108(E-108) Ed.4 – Surface Colours Used as Visual Signals on Marine Aids to Navigation

Input document C65-11.2.2.4 refers.

The Council approved IALA Recommendation R0108(E-108) Ed.4 – Surface Colours Used as Visual Signals on Marine Aids to Navigation.

11.2.2.5. Draft IALA Recommendation R0141(E-141) Ed.4 – Training and Certification of AtoN Personnel

Input document C65-11.2.2.5 refers.

The Councillor for Ireland remarked that this was a real issue in the context of the new standard and guidance was needed from the Secretariat on how to have the authorities' professionalism and experience recognized.

The Council noted this comment and approved IALA Recommendation R0141(E-141) Ed.4 – Training and Certification of AtoN Personnel.

11.2.2.6. Draft IALA Guideline G1065 Ed.3 – AtoN Signal Light Beam Divergence

Input document C65-11.2.2.6 refers.

The Council approved IALA Guideline G1065 Ed.3 – AtoN Signal Light Beam Divergence.

11.2.2.7. Draft IALA Guideline G1073 Ed.2 – Conspicuity of AtoN Lights at Night

Input document C65-11.2.2.7 refers.

The Council approved IALA Guideline G1073 Ed.2 – Conspicuity of AtoN Lights at Night.

11.2.2.8. Draft IALA Guideline G1140 – Commissioning of AtoN Equipment and Systems

Input document C65-11.2.2.8 refers.

The Council approved IALA Guideline G1140 – Commissioning of AtoN Equipment and Systems.

11.2.2.9. Draft IALA Guideline G1136 – Providing Marine AtoN Services in Extremely Hot and Humid Climates

Input document C65-11.2.2.9 refers.

The Council approved IALA Guideline G1136 – Providing Marine AtoN Services in Extremely Hot and Humid Climates.

11.2.2.10. Draft IALA Guideline G1092 Ed.2 – Safety Management for AtoN Activities

Input document C65-11.2.2.10 refers.

The Council approved IALA Guideline G1092 Ed.2 – Safety Management for AtoN Activities.

11.2.2.11. Draft IALA Guideline G1134 – Surface Colours Used as Visual Signals on AtoN

Input document C65-11.2.2.11 refers.

The Council approved IALA Guideline G1134 – Surface Colours Used as Visual Signals on AtoN.

11.2.2.12. Draft IALA Guideline G1135 – Determination and Calculation of Effective Intensity

Input document C65-11.2.2.12 refers.

The Council approved IALA Guideline G1135 – Determination and Calculation of Effective Intensity.

11.2.2.13. Draft IALA Guideline G1100 – The Accreditation and Approval Process for AtoN Personnel Training

Input document C65-11.2.2.13 refers.

The Council approved IALA Guideline G1100 – The Accreditation and Approval Process for AtoN Personnel Training.

11.2.2.14. Draft IALA Guideline G1067-0 Ed.2 – Selection of Power Systems for AtoN and Associated Equipment

Input document C65-11.2.2.14 refers.

The Council approved IALA Guideline G1067-0 Ed.2 – Selection of Power Systems for AtoN and Associated Equipment.

11.2.2.15. Draft IALA Guideline G1067-1 – Total Electric Loads of AtoN

Input document C65-11.2.2.15 refers.

The Council approved IALA Guideline G1067-1 – Total Electric Loads of AtoN.

11.2.2.16. Draft IALA Guideline G1067-2 – Power Sources

Input document C65-11.2.2.16 refers.

The Council approved IALA Guideline G1067-2 – Power Sources.

11.2.2.17. Draft IALA Guideline G1067-3 Ed.2 – Electrical Energy Storage for AtoN

Input document C65-11.2.2.17 refers.

The Council approved IALA Guideline G1067-3 Ed.2 – Electrical Energy Storage for AtoN.

Subsequent to the approval of the G1067 guideline series the Council approved the withdrawal of 1042 and 1047.

11.2.2.18. Draft IALA Guideline G1039 Ed.2 – Designing Solar Power Systems for AtoN and Annexes

Input document C65-11.2.2.18, C65-11.2.2.19 and C65-11.2.2.20 refers.

These are a series of three documents consisting of the guideline and two annexes, one being an Excel calculation tool and the other one a user manual.

The Council approved IALA Guideline G1039 Ed.2 – Designing Solar Power Systems for AtoN and its annexes.

11.2.2.21. to 11.2.2.26 Draft IALA revised Model Courses

Input document C65-11.2.2.21 to C65-11.2.2.26 refer.

The Council approved revised Model Courses as follows:

- **L2 10.1 & 2 – Remote monitoring of AtoN Ed.2**
- **L2 11.1-5 – AtoN structures, materials corrosion and protection Ed.2**
- **L2 11.6 – Preservation of structures Ed.2**
- **L2 11.7 – Maintenance planning and records Ed.2**
- **L2 8.1 – AIS AtoN operations Ed.2**
- **L1.1 – Aids to Navigation Manager Training Ed.3**

11.2.2.27. Draft Complementary Lighthouse Use Manual

Input documents C65-11.2.2.27 and C65-11.2.2.27.1 refer.

This is the version of the former Lighthouse Conservation manual, renamed to better reflect its content. It should be available in printed format at the 2018 Conference after final design kindly provided by Neil Jones of Trinity House, Chair of the ENG working group on historic lighthouses.

The Council approved the text of the Complementary Lighthouse Manual and expressed their thanks to Neil Jones for his great contribution.

11.3. VTS Committee

11.3.1. Summary report of VTS44

Input paper C65-11.3.1 refers.

Secretary-General Francis Zachariae introduced the summary report of VTS44.

The Council noted the summary report of VTS44.

11.3.2. Pro-active inter-sessional work prior to working period 2018-2022

Input paper C65-11.3.2 refers.

Secretary-General Francis Zachariae reported that this document expressed the Committee's concern about the time between VTS44 in 2017 and VTS45 in 2018 and its effect on the work related to A.857(20) in particular.

The Secretariat advised that arrangements had already been made to establish a working group to commence work on the draft revision of A.857(20). A schedule was still to be decided but the Secretary-General confirmed that there would be participants from outside the Committee.

The Council noted the information.

11.3.3. Proposal to hold a Workshop on Harmonizing VTS Communications

Input paper C65-11.3.3 refers.

The proposed Workshop in Korea in the first half of 2019 would provide the VTS Committee with proposals and examples of best practice that can be used in the development of guidance on VTS Communications Phrases/Phraseology. The VTS Committee at its last session had produced a draft Recommendation on VTS Communications and a related Guideline on VTS VHF Voice Communication. This Guideline focuses on VHF voice

communication procedures only but not phraseology. The plan is to produce a number of guidelines to sit under this recommendation.

The Council approve the Workshop on Harmonizing VTS Communications.

11.3.4. Draft IALA Recommendations and Guidelines submitted for approval

Input paper C65-11.3.4 refers.

11.3.4.1. Draft IALA Recommendation R1012 – VTS Communications

Input paper C65-11.4.1 refers.

Events and Document Co-ordinator Marie-Hélène Grillet drew the Council's attention to the new version of the draft that had been posted the week before. The previous version was found incomplete and returned to the Committee for improvement.

The Council approved the IALA Recommendation R1012 – VTS Communications.

11.3.4.2. Draft IALA Recommendation R1013 – Auditing and Assessing VTS

Input paper C65-11.4.2 refers.

The Councillor for Italy made the comment that IMO Resolution A.857(20) was subjective and allow for regional variations. IALA should ensure that the procedures are harmonized globally, not only at national level.

The comment was noted and it was added that the Recommendation would be revised, if needed, when the IMO Resolution has been amended.

The Council approved the IALA Recommendation R1013 – Auditing and Assessing VTS.

11.3.4.3. Draft IALA Recommendation R1014 – Portrayal of VTS Information and Data

Input paper C65-11.4.3 refers.

The Council approved the IALA Recommendation R1014 – Portrayal of VTS Information and Data.

11.3.4.4. Draft IALA Guideline G1130 – VTS Information Exchange with Allied or other Services

Input paper C65-11.4.4 refers.

The Council approved the IALA Guideline G1130 – VTS Information Exchange with Allied or other Services.

11.3.4.5. Draft IALA Guideline G1131 – Setting and Measuring VTS Objectives

Input paper C65-11.4.5 refers.

The Council approved the IALA Guideline G1131 – Setting and Measuring VTS Objectives.

11.3.4.6. Draft IALA Guideline G1132 – VTS VHF Voice Communication

Input paper C65-11.4.6 refers.

The Council approved the IALA Guideline G1132 – VTS VHF Voice Communication.

11.4. ENAV Committee

11.4.1. Summary report of ENAV21

Deputy Secretary-General Michael Card presented input paper C65-11.4.1, noting that it showed a very good completion of most of the work programme for the work period.

The Council noted the summary report of ENAV21.

11.4.2. Papers submitted for approval by the ENAV Committee

Input paper C65-11.4.2 refers. This paper summarizes and give the background information for each paper submitted in this section.

11.4.2.1. Draft IALA Guideline G1127 – Systems and Services for High-accuracy Positioning and Ranging

Input paper C65-11.4.2.1 refers.

The Council approved the IALA Guideline G1127 – Systems and Services for High-accuracy Positioning and Ranging.

11.4.2.2. Draft IALA Guideline G1128 – Specification of e-Navigation Technical Services

Input paper C65-11.4.2.2 refers.

The Council approved the IALA Guideline G1128 – Specification of e-Navigation Technical Services.

11.4.2.3. Draft IALA Guideline G1129 – The Retransmission of SBAS Corrections Using MF RB and AIS

Input paper C65-11.4.2.3 refers.

The Council approved the IALA Guideline G1129 – The Retransmission of SBAS Corrections Using MF RB and AIS.

11.4.2.4. Draft IALA Guideline G1117 – VHF Data Exchange System (VDES) Overview

Input paper C65-11.4.2.4 refers.

The Council approved the IALA Guideline G1117 – VHF Data Exchange System (VDES) Overview.

11.4.2.5. to 11.4.2.7 Draft annexes to IALA Guideline G1106

Input papers C65-11.4.2.5 to C65-11.4.2.7 refer.

These are three new annexes to existing Guideline G1106 which was approved by Council at its June session in Korea. The three annexes are concerned with product specifications for IALA's role in the S-100 Geographical Information System of the IHO, which is a key component of the IMO Strategy Implementation Plan for e-Navigation.

The Council approved the annexes to IALA Guideline G1106:

- **1106-1 – IALA Product Specification Template**
- **1106-2 – Proposal for Additional S-100 Feature Concept Dictionary Item – Template**
- **1106-3 – Product Specification under Development - Template**

11.4.2.8. Draft IALA Guideline G1139 – Technical Specification of VDES

Input paper C65-11.4.2.8 refers.

The Council approved the IALA Guideline G1139 – Technical Specification of VDES.

11.4.2.9. Draft IALA Marine Radio Communications Plan (MRCP) Ed.3

Input paper C65-11.4.2.9 refers.

The Council approved the IALA Marine Radio Communications Plan (MRCP) Ed.3.

11.4.2.10. VDES FAQs revision

Input paper C65-11.4.2.10 refers.

The Council approved the revised VDES FAQs.

11.4.3. ENAV submissions to other international organizations

Input paper C65-11.4.3 refers. The paper summarizes external communication documents generated by the ENAV Committee.

11.4.3.1. INF paper to NCSR5 on the IALA Maritime Radio Communications Plan (MRCP) Ed.3

Input papers C65-11.4.3.1 refers.

The Council approved the submission to NCSR5 on the IALA Maritime Radio Communications Plan (MRCP) Ed.3.

11.4.3.2. to 11.4.3.4 Liaison note to IHO S100 WG and NIPWG on S-100 on-line data exchange and supporting documents

Input papers C65-11.4.3.2 to C65-4.3.4 refer.

The Council approved the submission of the liaison note to IHO S100 WG and NIPWG on S-100 on-line data exchange and its supporting documents.

11.4.3.5. Liaison note to IEC regarding VDES specification

Input paper C65-11.4.3.5 refers.

The Council approved the submission of the liaison note to IEC regarding VDES specification.

11.4.3.6. Draft revision of Recommendation ITU-R M.2092-0

Input paper C65-11.4.3.6 refers.

The Council approved the submission of the draft revision of Recommendation ITU-R M.2092-0 to ITU.

11.4.3.7. to 11.4.3.11 Draft liaison note to other international organizations on MSPs

Input papers C65-11.4.3.7 to C65-11.4.3.11 refer.

The Council approved the submission of a liaison note on MSPs to IHO, IMPA, WMO, IMRF and IHMA.

11.4.3.12. to 11.4.3.17 Submissions to other international organizations approved by correspondence

Input papers C65-11.4.3.12 to C65-11.4.3.17 refer.

The Council noted that submissions to other international organizations had been approved by correspondence as per input papers C65-11.4.3.12 to C65.11.4.3.17.

11.4.4. Papers submitted by the ENAV Committee to the Council for noting

11.4.4.1. Management of Maritime Resource Name (MRN)

11.4.4.2. ENAV work plan

The Council noted the paper on the management of Maritime Resource Name and the ENAV work plan.

11.5. e-Navigation Underway

Input paper C65-11.5 refers.

Secretary-General Francis Zachariae reported that the first e-Navigation Underway Asia-Pacific (ENUW AP) conference was held from 18th to 20th June 2017 on Jeju Island, Republic of Korea and the fourth e-Navigation Underway North America (ENUW NA) conference was held from 16th to 18th October 2017 in St. Johns, Newfoundland.

ENUW Asia Pacific had the theme of implementing e-Navigation in the Asia-Pacific region and the ENUW North America was a joint conference with the Marine Institute, St. Johns, on Enhancing Technology and Innovation for Polar Navigation.

Organized by the Republic of Korea's Ministry of Oceans and Fisheries and supported by IALA and the Danish Maritime Authority, the e-Navigation Underway Asia-Pacific Conference focused on the harmonized implementation of e-Navigation in the Asia-Pacific region. It highlighted, in particular, technologies to provide e-navigation services for non-SOLAS ships, the implementation of Maritime Service Portfolios (MSPs) and

supporting infrastructure, regional coordination and collaboration, and cooperation with IALA to develop training programmes.

The Marine Institute in St. Johns hosted a joint conference which combined e-Navigation Underway (North America) 2017 with Ocean Innovation 2017 under the theme “Enhancing Technology and Innovation for Polar Navigation”.

The ENUW Asia Pacific generated five highlights and the ENUW North America generated eight highlights. As usual they will be studied by the ENAV Committee and now also by ENG and ARM.

The eight 2018 e-Navigation Underway International Conference will be held in Copenhagen/Oslo 24th to 26th January 2018 and the second e-Navigation Underway – Asia-Pacific 2018 will take place in Seoul, Republic of Korea, from 4th to 5th June 2017, back to back with the IALA Conference.

11.6. Withdrawal of IALA Recommendation P-137

Input paper C65-11.6 refers.

Secretary-General Francis Zachariae informed the Council that his attention had been drawn by the IMPA Secretary-General on IALA Recommendation P-137 – Quality Management Systems for Competent Pilotage Authorities.

Both were of the opinion that keeping this Recommendation was no longer relevant after the Council decision made years ago that IALA should not recommend pilotage providers and the Council was requested to withdraw this recommendation from the IALA documents.

The Council approve the withdrawal of IALA Recommendation P-137 – Quality Management Systems for Competent Pilotage Authorities.

12. IALA WORLD-WIDE ACADEMY

12.4. Progress report and future actions

The Dean of the IALA WWA Omar Frits Eriksson explained that the Academy supports Goal 2 of the IALA Strategic Vision. Its main activities are education and training, capacity building with need assessment missions, and research and development.

The objectives given to the Academy by its Board for 2017 were:

- A focus on target States in the greatest needs
- The achievement of at least one training hub per region
- Keeping people in contact to ensure sustainable learning with the creation of a WWA Alumni association
- “Delivering as One” in the context of the UN strategy through close cooperation with other international organizations.

With regard to training distance learning was implemented, in addition to the five L1 AtoN management courses delivered in 2017 in China, the Republic of Korea, France, Morocco and Surinam. Seven L1 courses are planned for 2018 in South Africa, Morocco, India, China, France, Malaysia and Ecuador (organized by Spain) and distance learning will continue.

Ten needs assessment missions were carried out, plus two review missions.

The Dean then explained how the “greatest needs” are estimated based on the volume of traffic and degree of risk assessed against the quality of the maritime management. The Dean invited all councilors to attend the pre-conference “Quality of Maritime Management” forum, arranged by the Academy, and where there will be an opportunity to conduct a self-assessment using this method.

The Dean then went through the financial situation of the Academy and while thanking for the sponsorships already provided to the Academy, he encouraged all council members to seek for further opportunities to sponsor the Academy.

The presentation made by the WWA Dean is available from the Website.

The report of the Academy Board meeting is at input paper C65-12.1.1 and the Risk register at input paper C65-12.1.2.

The Council noted the information provided.

13. INTERNATIONAL

13.1. IMO

13.1.1. MSC98

Deputy Secretary-General Michael Card reported that IMO MSC98 was held in the same week as the IALA Council in Korea in June and the IALA Secretariat was not able to send a delegate.

Matters of direct interest to IALA included Guidelines associated with multi-system shipborne radionavigation receivers dealing with the harmonized provision of PNT data and integrity information.

Decisions of particular interest to IALA were:

11.12 The Committee approved MSC.1/Circ.[...] on Guidelines for shipborne position, navigation and timing (PNT) data processing.

11.13 The Committee adopted resolution MSC.[...](98) on Amendments to Performance standards for multi-system shipborne radionavigation receivers (resolution MSC.401(95)), as set out in annex [...].

11.21 The Committee approved the Modernization Plan of the Global Maritime Distress and Safety System (GMDSS) (NCSR 4/29, annex 11).

11.37 The Committee agreed to activate the IMO/IHO Harmonization Group on Data Modelling (HGDM) to work only on the output on "Develop guidance on definition and harmonization of the format and structure of MSPs (the first meeting of this Group was at IMO Headquarters in London, from 16 to 20 October 2017)

11.40 The Committee revoked MSC/Circ.586/Rev.1 on World VTS Guide, and noted that the references to the World VTS Guide in resolution A.857(20) were no longer valid.

The Committee also agreed to a new output on a regulatory scoping exercise for Maritime Autonomous Surface Ships.

The Council noted the information provided.

13.1.2. IMO-IHO Harmonisation Group on Data Modelling

Input paper C65-13.1.2 refers.

Deputy Secretary-General Michael Card said that in preparation for the HGDM meeting, IALA had hosted IHO representatives to a meeting at IALA HQ on 18 July as shown in Annex A of the input paper. The meeting resulted in a joint submission to IMO by IALA and IHO.

The first meeting of the HGDM was held at IMO London in October. Both the Secretary-General and the Deputy Secretary-General were committed on other activities that week (e-Navigation Underway North America and FERNs Council respectively) and were unable to participate in the HGDM meeting.

With the kind assistance of the US Coast Guard, and of Offis, Germany, Mr David Lewald and Dr Axel Hahn represented IALA at the meeting.

The HGDM was tasked by the Maritime Safety Committee to work only on the Guidance on the definition and harmonization of the format and structure of Maritime Service Portfolios (MSPs). The group agreed to a revised definition of MSPs. The term 'Maritime Service' was introduced into the definition and intended to emphasize that a Portfolio comprised two or more related maritime services.

The group decided that the current list of MSPs in the IMO e-navigation Strategy Implementation Plan (SIP) should not be called a list of MSPs but rather a list of e-navigation 'Maritime Services'.

It was agreed that IMO had the lead role on e-navigation development and implementation, and therefore should manage and control the development of maritime services to achieve harmonization. Domain coordinating bodies would be involved at the next level and it can be assumed that IALA will be one of them.

The group noted the need for a guideline for the specification of technical services and noted IALA's statement that the work on the IALA Guideline on specification of e-navigation technical services had been finalized but needed internal approval. Consequently, the group requested IALA to submit the final approved version, preferably to NCSR 5, together with a short non-technical description that explained the nature and need for the guideline.

Finally the Group made progress on a draft IMO Resolution on IMO guidance on the definition and harmonization of the format and structure of maritime services within the maritime service portfolio (MSP).

A second meeting of the Group is required and the dates expected, after IALA-IHO-IMO coordination are 29 October to 01 November 2018.

The Council noted the information provided.

The Council approved the forwarding of the Comment paper to IMO NCSR5.

Action item 5:

The Secretariat is requested to submit the Comment paper C65-13.1.2.1 to IMO NCSR5.

13.1.3. IMO Assembly 30

Input paper C65-13.1.3 refers.

Technical Operations Manager Minsu Jeon, as IALA accredited representative at IMO, reported on the 30th IMO Assembly, which was held the week before the Council session. He focused on the main highlights of the meeting, namely the Organization's strategy plan, the review of the work done by the Organization, the IMSAS audit and the election of the new Council.

The Council noted the report.

13.2. ITU

Input paper C65-13.2 refers.

Deputy Secretary-General Michael Card reported that the IALA focus was on the preparation for the World Radio Conference in 2019 and the securing of the frequency allocations for VDES, especially the satellite downlink frequencies.

ITU-R WP5B met in the period 06 to 17 November 2017, at ITU Geneva. IALA was represented by expert Mr Stefan Bober, by kind permission of the German Federal Waterways and Shipping Authority.

Three liaison notes were provided by IALA to this meeting, all approved by Council via email procedure.

The Council noted this information.

13.3. IHO

Deputy Secretary-General Michael Card reported IALA was pleased to welcome the IHO Secretary-General Mr Mathias Jonas at IALA Headquarters during the Arctic Seminar in November. There were no IHO matters to report.

13.4. Arctic Matters

13.4.1. IALA Arctic Seminar

Input paper C65-13.4.1 refers. The six Conclusions generated by the Seminar appear in this paper.

Secretary-General Francis Zachariae said that between 10 and 12 February 2010 delegates from Canada, Denmark, Norway, Russia, and the United States as well as the International Hydrographic Organization had met at IALA headquarters to discuss the marking of polar traffic routes. IALA delegates from five of the Arctic states and the chairs of IALA's Committees presented their perspectives on the current challenges in the Arctic.

The result was advised by IALA to IMO MSC 87. This paper pointed to the necessity to adopt a harmonised approach in addressing current and future risks in Arctic waters.

In an attempt by IALA to follow up the initiative to organise a seminar on Arctic navigation at IALA Headquarters developed from 2013, with advice from IALA Councillors from Arctic Council member states, and in consultation with the President of the IHO. The Seminar took place on 9-10 October and was very successful. The report with 6 important conclusions, including agenda and participants is provided as input document C65-13.4.1.2.

The Secretary-General thanked warmly all Council members who supported and participated in the event.

13.5. EfficienSea2 project

13.5.1. Status report

Input paper C65-13.5.1 refers.

Deputy Secretary-General Michael Card reported that IALA deliverables for the E2 project were all completed or will be completed by project end in April 2018. The work has been done by contractors, led by Dr Nick Ward of the UK. Expenditure is at 85% of budget and the remaining 15% should be expended by April.

13.6. SEA TRAFFIC MANAGEMENT VERIFICATION PROJECT

Input papers C65-13.6.1, C65-13.6.1.1 and C65-13.6.1.2 refer.

A presentation was made by the Councillor for Sweden Mr Ove Eriksson. This presentation is available from the Website.

13.7. Baltic R-Mode PNT Project

Deputy Secretary-General Michael Card informed the Council that this was a new project intended to verify R-mode positioning using DGPS stations (Medium Frequency) and AIS and VDES base stations (VHF).

IALA had been asked to be an advisor to the project. Theoretical work was done first by the ACCSEAS project on the use of DGPS stations for R-mode terrestrial positioning and Councillors would recall that they approved a new Recommendation to members to retain DGPS infrastructure, even if the stations cease broadcasting.

13.8. FERNS

Input paper C65-13.8.1 was presented by Deputy Secretary-General Michael Card.

China MSA was the host for the 26th session of the Council of the Far East Radionavigation Service on 24 to 27 October in the historic city of Xi'an, the ancient capital of China.

The Chair for the Council meeting was Mr WANG Zelong, Deputy Director General, China MSA.

A meeting of the Technical Working Group, chaired by Professor Seung-gi GUG of Korea was held on 23 October.

IALA was represented by the Deputy Secretary-General and Mrs Marie-Helene Grillet who did the minutes and report of the meeting.

The primary purpose of FERNs is to coordinate Loran-C radionavigation transmissions by China, the Republic of Korea and the Russian Federation in the Far East area but in his opening address, Mr WANG recalled the Resolution adopted by the Council at its 2016 session to expand its scope to all radionavigation services, including e-Navigation. Mr Wang also mentioned an expectation of improved cooperation with IALA as a result of the expanded activities and recalled the continuous support of IALA to FERNs.

It is worth drawing attention to the important work done by China on VDES data throughput trials, NAVDAT tests and R-mode positioning using AIS signals, which is very significant for the introduction of VDES.

The Council noted the report.

14. IALA CONFERENCES AND SYMPOSIA

14.1. 2018 IALA Conference – Republic of Korea

A report on the last meeting of the International Conference Steering Committee is provided at input paper C65-14.1.

The Councillor for the Republic of Korea presented in detail their progress in the organisation of the Conference. Their presentation is available from the Website.

Council members were encouraged to register as early as possible to benefit from the early bird discount.

14.2. 2020 IALA Symposium – The Netherlands

The Councillor for The Netherlands reported that the Organisers were working on the programme budget and exploring potential venues for the Symposium.

14.3. 2022 IALA Conference – Brazil

The Councillor for Brazil reported that he and his team were still in the process of choosing the city, many of them being equally suitable for an IALA Conference.

Secretary-General Francis Zachariae drew the Brazilian Councillor attention to the need to identify a suitable company that join IALA as an Industrial member in order to be the President of the IMC, as required by the IMC Bye-Laws.

The Councillor from Brazil explained that they were working on it.

15. MEMBERSHIP

15.1. Applications for membership

Input paper C65-15.1 refers.

Secretary-General Francis Zachariae listed the organisations or companies having applied for IALA membership, with the addition of three companies that had applied after the beginning of the meeting. He also reminded that, according to the General Regulations, some new members had been provisionally accepted, subject to endorsement by the Council.

Some members were also presented for reinstatement after they had paid their outstanding fees.

In addition the Secretary-General announced that he had just been information of the acquisition of Signalis (Germany) by Airbus Defence and Space SAS, the latter requesting that Industrial membership of Signalis being transferred to the French company.

The Council **noted** the information and

The Council endorsed the approval of national membership for:

- Ministry of Communication of Qatar

The Council endorsed the approval of industrial membership for:

- M/S Navaid Energy Private Limited, India
- IRM Offshore and Marine Engineers Pvt.Ltd., India
- PMS Polietilen Mam San.Tic.A.S, Turkey

The Council endorsed the approval of associate membership for:

- Korean Register of Shipping, Republic of Korea
- SSPA Sweden AB, Sweden

The Council approved the applications for Industrial membership of:

- Shanghai Spaceflight Institute of TT & C and Telecommunication, People's Republic of China.
- Zhejiang Space-Iching Science and Technology Co, Ltd., People's Republic of China
- Wenzhou Lighthouse Electronic Technology Co., Ltd, People's Republic of China
- BoLooMo International Group, Ltd, People's Republic of China
- Continental Shipyards Ltd., Nigeria
- Depasa Marine International Ltd., Nigeria
- Dorrana Nigeria Ltd., Nigeria

The Council approved the applications for Industrial membership, subject to confirmation by China MSA, of:

- Langfang AtoN Ltd., People's Republic of China

The Council approved the application for membership of PT Alinda Nusantara, Indonesia, provided that they join as Industrial member.

The Council approved for Associate membership of:

- National Geospatial Intelligence Agency, USA

The Council approved the applications for Associate membership, subject to confirmation by China MSA, of:

- National Mobile Communications Research Laboratory, Southeast University, People's Republic of China

The Council reinstated the following members:

- Corilla Plastics, United Kingdom, Industrial member.
- Instituto de Canalizaciones, Venezuela, Associate member.

The Council approved the transfer of Industrial membership of Signalis (Germany) onto Airbus Defence and Space SAS (France).

15.2. Resignations from membership

Input paper C65-15.2 refers.

Secretary-General Francis Zachariae invited the Council to note the resignations from membership as follows:

National member: Ministry of Transport, Israel

Industrial members:

- Trelleborg Offshore and Construction AB, Sweden
- Seven Colour Electric Lighting Inc., Canada

Associate member: Shelter Cursos, Brazil

15.3. Terminations or suspensions of membership

Input paper C65-15.3 refers.

The Council took a close look at the members on the list submitted for suspension or termination of membership and made the following decision:

National members would be approached again by the Secretary-General. If no agreement can be concluded with the member, membership would be considered terminated at the end of 2018.

It was noted that Aster SpA of Italy was removed from the list after they started to pay their debts.

On the advice by the IMC, who explained that the company located in Iran had payment difficulties due to the embargo, **the Council decided that AMACO, Iran, should remain an Industrial member for the time being.**

The Council terminated associate membership of Direccion de Vias Navegables, Argentina, and Centre National d'Information et de Documentation Maritime, Republic of Congo.

16. IALA COMMUNICATION TOOLS

16.1. IALA Website

Secretary-General Francis Zachariae reported briefly on the recent improvements to the IALA Website and invited the Council to provide inputs for further improvements.

The Council noted the information provided.

16.2. IALA Bulletin

Secretary-General Francis Zachariae informed the Council that the eBulletin would appear 4 times a year and the paper Bulletin twice a year in June and December. The paper Bulletin is now free of charge to all readers and the eBulletin is circulated to the 3,000 registered users of the IALA Website.

The Council noted the information provided.

17. ANY OTHER BUSINESS

There was no other business.

18. DATES AND PLACES FOR NEXT MEETINGS

The President confirmed the dates and places for the next Council meetings as follows:

Session 66:	27 May 2018	Incheon, Korea
Session 67:	2 June 2018	Incheon, Korea
Session 68:	10-14 December 2018	IALA Headquarters

The President closed the meeting at 11h50 on Friday 15th December 2017, thanking all participants for their attendance and the IALA Secretariat for their wonderful arrangements.

ANNEX A – AGENDA FOR THE MEETING

APPROVED AGENDA

ITEM		ACTION REQUESTED
1.	PRESIDENT'S OPENING REMARKS ^(a)	
2.	APOLOGIES FOR ABSENCE ^(a)	Note
3.	APPROVAL OF THE AGENDA	
3.1	Draft Agenda	Approve
3.2	Draft programme	Note
4.	VACANT POSITIONS WITHIN COUNCIL	N/A
5.	REPORT OF THE 64th SESSION	
5.1	Matters arising from the session	Note
6.	NATIONAL MATTERS	Note
7.	REPORT BY THE SECRETARY GENERAL	Note
8.	STRATEGY AND POLICY	
8.1	13th IALA General Assembly	
8.1.1	Progress report on preparation works	Note
8.1.2	Draft IALA Standards	Approve
8.1.3	Draft revised IALA Constitution	Approve
8.1.4	Council's proposals	Consider
8.2	Policy Advisory Panel	
8.2.1	Report of PAP34	Note
8.2.2	Strategic Vision 2018-2026	Note
8.2.3	Position on the Development of AtoN Services	Note
8.2.4	Recommendations Plan	Note
8.2.5	Committee structure 2018-2022	Note
8.2.6	Committee work programme 2018-2022	Note
8.2.7	Retirement of Committee Chairs and Vice Chairs	Note
8.2.8	Nominations for Committee Chairs and Vice Chairs for work period 2018-2022	Note

ITEM		ACTION REQUESTED
8.3	Change of status	
8.3.1	3 rd Extraordinary LAP meeting on change of status	Note
8.3.2	Pre-Diplomatic Conference February 2018	Note
8.4	Legal Advisory Panel (LAP)	
8.4.1	IALA Risk Register	Note/Comment
8.5	World Marine Aids to Navigation Day	Discuss/Approve
9.	FINANCE AND AUDIT COMMITTEE REPORT	
9.1	Budget for 2018	Approve
9.2	Draft outline budget 2019-2021	Note
9.3	Cash flow situation as at 31 st October 2017	Note
9.4	Membership contributions status	Note
10.	INDUSTRIAL MEMBERS COMMITTEE	Note
11.	IALA TECHNICAL ACTIVITIES	
11.1	ARM	Note/Approve
11.2	ENG	Note/Approve
11.3	VTS	Note/Approve
11.4	ENAV	Note/Approve
11.5	e-Navigation Underway	Note
11.6	Withdrawal of IALA Recommendation P-137 – Quality Management Systems for Competent Pilotage Authorities	Approve
12.	IALA WORLD-WIDE ACADEMY	
12.1	Progress report and future actions	Note
12.2	Academy Risk Register	Note
13.	INTERNATIONAL	
13.1	IMO	
13.1.1	MSC98 ^(a)	Note
13.1.2	IMO-IHO Harmonisation Group on Data Modelling	Note
13.1.3	IMO Assembly 30	Note
13.2	ITU	

ITEM	ACTION REQUESTED
<p>13.2.1 ITU Working Party 5B</p> <p>13.3 IHO</p> <p>13.4 Arctic Matters</p> <p>13.4.1 Arctic Seminar, November 2017</p> <p>13.5 EfficienSea 2 project</p> <p>13.5.1 Status report</p> <p>13.6 Sea Traffic Management Verification Project</p> <p>13.6.1 Project Policy Advisory Group</p> <p>13.7 Baltic R-Mode PNT Project ^(a)</p> <p>13.8 FERNS</p> <p>13.8.1 26th session of FERNS Council</p>	<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>
<p>14. IALA CONFERENCES AND SYMPOSIA</p> <p>14.1 2018 IALA Conference – Korea</p> <p>14.2 2020 IALA VTS-e-Navigation Symposium – The Netherlands</p> <p>14.3 2022 IALA Conference – Brazil</p>	<p>Note</p> <p>Note</p> <p>Note</p>
<p>15. MEMBERSHIP</p> <p>15.1 Applications for Membership</p> <p>15.2 Resignations from Membership</p> <p>15.3 Terminations or suspensions of Membership</p>	<p>Approve</p> <p>Note</p> <p>Decide</p>
<p>16. IALA COMMUNICATION TOOLS</p> <p>16.1 IALA Website</p> <p>16.2 IALA Bulletin</p>	<p>Note</p> <p>Note</p>
<p>17. ANY OTHER BUSINESS</p>	
<p>18. DATES AND VENUES FOR NEXT MEETINGS</p>	<p>Note</p>

ANNEX B – LIST OF PARTICIPANTS

Spain	Puertos del Estado Sr Juan Francisco REBOLLO (President) Head of Spanish AtoN Service Tel + 34.915 245 526 e-mail jfrebollo@puertos.es
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ANNEX C – REPORTS PROVIDED IN WRITING BY COUNCILLORS ON NATIONAL MATTERS

AUSTRALIA:

In a collaborative effort with New Zealand, Australia is conducting a testbed of a 2nd Generation Satellite Based Augmentation System (SBAS). The trial will be conducted over the next two years. If successful, it is expected to result in a regional SBAS capability for the Australia and New Zealand region – one of the few regions in the world without a SBAS.

For marine users, SBAS has the potential to provide a higher degree of accuracy, better coverage and integrity-checked positioning, navigation and timing information, when compared with that currently provided by GNSS in combination with AMSA's radiobeacon Differential GPS network.

The SBAS testbed will be established by a group of technology companies that includes Lockheed Martin, INMARSAT and GMV.

Planning is underway for the AMSA-hosted navigation safety symposium at Gold Coast, Queensland from 1 to 3 May 2018 (NAV 18). The technical program will address four areas: a. aids to navigation b. shipboard navigational aids c. domestic commercial (broadly, non-SOLAS) vessels, and human factors.

A ten booth industrial exhibition is also being organised at the venue.

FINLAND:

- The Autonomous Maritime Ecosystem called One Sea, has established an open test area in the west coast of Finland. The test area is open for anyone willing to run trials of autonomous vessels. Area is available for testing from January to April and then again from July to December every year until the end of 2025. May and June are not available due to fishing industry's needs.

No navigational aids will be installed in the area, but use of the virtual AIS is under consideration. Test area will be published on Finnish nautical charts.

Finnish Transport Agency has supported the One Sea ecosystem in the planning of the area and assisted with the administrative processes related to the required traffic restrictions in the test area.

- The Intelligent Fairway –project has also continued. At the moment, our experts of the FTA are focusing on ensuring that the software and data development is done in a way, which enables and ensures use of the open source systems in the future.

In the next phase, the aim is to study, how the new tools would affect mariner's work and situational awareness.

- We've also positive news regarding the outcomes of the EfficienSea2 -project. The Enhanced Navigation Support Information service, ENSI, which allows vessels to send their route plans and mandatory Ship Reporting System reports electronically, has been further developed within the EfficienSea2.

The created service enables a single window approach for reporting. A vessel needs to report only once, as this information is stored and available for all relevant and authorized partners, who are connected to the service. This is extremely efficient especially in an area like the Baltic Sea, where the distances are relatively short and the reported information mainly remains the same during the voyage. In a case where there is need for a vessel to change the information, it can of course do so, and then this updated information is shared with all participating shore stations.

The service has been published in the Maritime Connectivity Platform registry and documented following guidance of the relevant IALA Guideline.

- The Finnish Transport Agency has defined a vendor independent interface for receiving reports from different remote aids to navigation monitoring systems. At the moment Finnish Transport Agency uses remote monitoring systems, which are provided by four different manufacturers. All aids to navigation status reports from these different systems are now stored in one common database and the collected information can be accessed in real-time by various applications.

The Finnish Transport Agency has done preparations to update our VTS system during next year. The update will include advanced Risk Identification tool and implementation of enhanced support for operator workflow quality control.

INDIA:

- Establishment of VTS along the coast of India has been envisaged. The proposal is to integrate all the individual VTSs in the country and install new Radars, wherever needed, to cover the gaps to monitor the vessel traffic centrally and from select locations. National AIS network of 87 base stations will also be integrated. The goal is to extend information service for the vessels plying in coastal waters and to provide feed to upcoming ports to manage the traffic within its port boundary. The envisaged system is named as National Coastal VTS (NCVTS) which will also contribute to enhance coastal security and surveillance. Detailed Project Report is under deliberation to finalize for placing before the Government for approval.
- Promotion of tourism at lighthouses has also gained emphasis. We have recently established a lighthouse cum maritime museum at Muttom lighthouse which inaugurated by the Hon'ble Minister of State for Shipping.
- Construction and establishment of four lighthouses have been recommended by the Central Advisory Committee o lighthouses.
- Regarding development of Marine Navigation Training Institute at Kolkata for imparting VTS training and Level-1 AtoN Manager training courses, it is informed that as per the time schedule drawn by the dean IALA WWA we have moved the proposal for ISO certification and various audit, however approval for recruitment of faculty is yet to be received from the Government. We will keep updating IALA time to time on the subject.
- For broadcasting navigational safety messages, we have established network of 07 Navtext transmitting stations. System is working satisfactory of trial run and to be shortly dedicated to the nation for the benefit of the fishermen and mariners.
- We have a network of 23 DGPS stations seamlessly covering the entire coastline. Recapitalization of 3 DGPS stations has been taken up in the first phase.

Regarding change of status of IALA to IGO, Government of India has supported the proposal.

IRELAND:

Completion of strategy, focus on visual and electronic AtoN; Value Added Services, Commercial and Heritage. Strategy recognises the increasing convergence of AtoN, Data & Communications services and Navigation Aids.

- Installation of Fixed and Flashing Light at Mew Island
- IALA staff day. Honoured to host a very hard working but enjoyable visit.
- 4 papers submitted for Conference; 2 accepted for presentation Another New Life for a Hyper Radial Lens and Consolidation of Offshore Lighthouses - The Benefits and Challenges; 2 accepted for reserve; Great Lighthouses of Ireland and Use of Drone Technology in Lighthouse Operations
- First Irish Lights participant on AtoN manager's course starting in January. Intention to advance IALA training across organisation and Local AtoN providers.
- New MetOcean strategy emerging; consolidate and then expand.
- New Monitoring strategy being finalised primarily using AIS
- Increasing focus on cyber security

THE NETHERLANDS:

The renewal of the Netherlands dGPS network has been successfully completed in November 2017. In close cooperation with the UK and Germany a proposal for a new testbed on R-Mode for the North Sea area is under consideration building on the results of the ACCSEAS project and of the current Baltic Sea R-Mode project.

The Netherlands launches an extensive research and testing project on autonomous shipping both on the North sea as on the inland waters. The first have been taken place. Since last Sunday even an autonomous vessel is cruising the canals of Amsterdam.

PORTUGAL:

The Portuguese Lighthouse Authority, besides the main mission on planning, updating and maintaining the aids to navigation and DGNSS/DGPS under its responsibility, it is relevant to highlight the following activities:

- The implementation of a monitoring coastal system, called Safe Coast, whose main objective is to obtain situational awareness information in areas under the jurisdiction of the Local Maritime Authorities (coast, littoral, harbor approaches and high-density traffic areas). The integrated information (radar, AIS and optic camera) collected by the local stations, is intended to assist this authorities on matters of safety of navigation, search and rescue, and combat to pollution. The national coverage of this system will be achieved with 30 stations, 16 of them are already installed.
- The cooperation/capacity building with the Coast Guard of São Tomé e Príncipe to maintain and update the network of lighthouses and lights.

ANNEX D – MINUTES OF 2ND SESSION OF THE STRATEGY DRAFTING GROUP ON 11 DECEMBER 2017

1. INTRODUCTION

The Council 63 decided to establish a Strategy Drafting Group as a replacement for the current Strategy Group. The mission of the Strategy Drafting Group is to collect information from IALA members and to draft a high-level Strategy for IALA.

The first meeting was held in Incheon, Republic of Korea, on the occasion of the 64th session of the IALA Council on 12 June 2017.

2. OPENING OF MEETING

The second meeting of the Strategy Drafting Group was held at IALA HQ on 11th Dec 2017, before the 65th IALA Council meeting. The chair, Mr Christian Forst, Germany, opened the meeting at 13.30 and welcomed all participants. The meeting was attended by the IALA President and by Councillors or their delegates from;

- Australia
- Brazil
- China
- France
- Germany
- India
- Ireland
- Korea
- South Africa
- Spain
- Sweden
- UK

and from the Secretariat by the Secretary-General, Deputy Secretary-General, Dean of WWA, and the Technical Operations Manager.

3. PROGRESS AFTER THE FIRST MEETING

The Secretary-General introduced the summary of the first meeting of the Strategy Drafting Group meeting. After the meeting, a letter from IALA to all IALA members, seeking views on this issue was sent, and 17 replies (14 National members, 1 Associate member, 2 Industrial members) were received at the IALA secretariat on following areas;

- Connectivity, port CDM, Shore services (for future VTS, revision IMO Resolution A.857(20));
- MASS (Autonomous ships);
- Traditional AtoN in the future;
- Capacity building ;
- UN Sustainable Development Goals;
- Special IMC needs.

4. DISCUSSION

The input prepared by the secretariat went through few revisions, and was finalised as follows:

Goals

G1 – Marine Aids to Navigation are developed and harmonised through international cooperation and the provision of standards.

G2 - All coastal states have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise.

Strategies

S1 - Develop standards suitable for direct citation by States, in areas deemed important by the General Assembly, and the related Recommendations and Guidelines.

S2 - Position IALA as the source of standards, knowledge, and expertise that will enable States to provide Marine Aids to Navigation, in accordance with relevant international obligations and recommendations.

S3 - Coordinate the future development of Marine Aids to Navigation, taking into account new technologies and UN sustainability goals.

S4 - Continue to develop capacity building activities to improve the global provision of Marine Aids to Navigation.

S5 - Harmonise the information structure and communications for future navigation by creating standards, and by cooperation with other international organisations, to achieve worldwide interoperability of shore and ship systems.

S6 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, national legislation and public expectations, to ensure the safety and efficiency of vessel traffic and to protect the environment.

S7 - Work towards the transformation of IALA into an IGO, to enable the organization to achieve its aim objectives.

S8 - Ensure that the resources and capabilities of the Secretariat are sufficient to enable IALA and its committees and organs to reach its goals.

5. CLOSING OF THE MEETING

The Chair expressed his thanks to all participants. The revised version of the Strategic Vision 2018-2026 (C65-8.2.2.1 v2) will be forwarded to the Council 65 for approval.

ANNEX E – ACTION ITEMS

Action item 1:

The Secretariat was invited to consider providing for a transitional period after the standards are approved by the next General Assembly.

Action item 2:

The Secretariat was requested to amend the standards in accordance with the change in the goals, should the amended Strategy Vision be approved.

Action item 3:

The Secretariat should prepare an input to the General Assembly for the establishment of a World Marine Aids to Navigation Day, preferably on 1st July, which is the day IALA was created.

Action item 4:

The Secretariat was requested to forward the comment on MAtoN to the ARM Committee for consideration as part of its future work programme.

Action item 5:

The Secretariat is requested to submit the Comment paper C65-13.1.2.1 to IMO NCSR5.

ANNEX F – RECORD OF DECISIONS OF THE 65th SESSION OF THE IALA COUNCIL

The Council approved the forwarding to the General Assembly of the seven draft Standards:

- 1010 – AtoN Planning and Service Requirements
- 1020 – AtoN Design and Delivery
- 1030 – Radionavigation Services
- 1040 – Vessel Traffic Services
- 1050 – Training and Certification
- 1060 – Digital Communication Technologies
- 1070 – Information Services

subject to small editorial amendments in the formulation of the IALA goals, should the revised Strategic Vision be approved.

The Council approved the forwarding of the revised IALA Constitution to the next General Assembly.

The Council approved the forwarding of the draft Strategic Vision to the General Assembly with these two amendments.

The Council approved the Position on the Development of AtoN Services as amended, requesting the Secretariat to give further consideration to Cyber-security.

The Council approved the forwarding of the proposed new structure to the Council to be elected in May 2018.

The Council agreed that the Secretariat should prepare an input to the General Assembly for the establishment of an International Maritime Aids to Navigation Day, independent from the International Lighthouse Day, preferably on 1st July.

The Budget for 2018 was approved.

The Council approved IALA Guideline G1137 – AtoN Management in Protected Areas.

The Council approved IALA Guideline G1138 – The Use of the Simplified IALA Risk Assessment Method (SIRA)

The Council approved IALA Recommendation R0130(O-130) Ed3.1 – Categorisation and Availability Objectives for Short Range Marine Aids to Navigation.

The Council approved IALA Recommendation R1015 – Marking of Hazardous Wrecks.

The Council approved the text of the 2018 edition NAVGUIDE, noting that it will then be professionally designed.

The Council approved IALA Recommendation R0201(E-200-1) Ed.2 – Marine Signal Lights – Colours

The Council approved IALA Recommendation R0202(E-200-2) Ed.2 – Marine Signal Lights – Luminous Range

The Council approved IALA Recommendation R0204(E-200-4) Ed.2 – Marine Signal Lights – Determination and Calculation of Effective Intensity.

The Council approved IALA Recommendation R0108(E-108) Ed.4 – Surface Colours Used as Visual Signals on Marine Aids to Navigation.

The Council approved IALA Recommendation R0141(E-141) Ed.4 – Training and Certification of AtoN Personnel.

The Council approved IALA Guideline G1065 Ed.3 – AtoN Signal Light Beam Divergence.

The Council approved IALA Guideline G1073 Ed.2 – Conspicuity of AtoN Lights at Night.

The Council approved IALA Guideline G1140 – Commissioning of AtoN Equipment and Systems.

The Council approved IALA Guideline G1136 – Providing Marine AtoN Services in Extremely Hot and Humid Climates.

The Council approved IALA Guideline G1092 Ed.2 – Safety Management for AtoN Activities.

The Council approved IALA Guideline G1134 – Surface Colours Used as Visual Signals on AtoN.

The Council approved IALA Guideline G1135 – Determination and Calculation of Effective Intensity.

The Council approved IALA Guideline G1100 – The Accreditation and Approval Process for AtoN Personnel Training.

The Council approved IALA Guideline G1067-0 Ed.2 – Selection of Power Systems for AtoN and Associated Equipment.

The Council approved IALA Guideline G1067-1 – Total Electric Loads of AtoN.

The Council approved IALA Guideline G1067-2 – Power Sources.

The Council approved IALA Guideline G1067-3 Ed.2 – Electrical Energy Storage for AtoN.

Subsequent to the approval of the G1067 guideline series the Council approved the withdrawal of 1042 and 1047.

The Council approved IALA Guideline G1039 Ed.2 – Designing Solar Power Systems for AtoN and its annexes.

The Council approved revised Model Courses as follows:

- L2 10.1 & 2 – Remote monitoring of AtoN Ed.2
- L2 11.1-5 – AtoN structures, materials corrosion and protection Ed.2
- L2 11.6 – Preservation of structures Ed.2
- L2 11.7 – Maintenance planning and records Ed.2
- L2 8.1 – AIS AtoN operations Ed.2
- L1.1 – Aids to Navigation Manager Training Ed.3

The Council approved the text of the Complementary Lighthouse Manual and expressed their thanks to Neil Jones for his great contribution.

The Council approve the Workshop on Harmonizing VTS Communications.

The Council approved the IALA Recommendation R1012 – VTS Communications.

The Council approved the IALA Recommendation R1013 – Auditing and Assessing VTS.

The Council approved the IALA Recommendation R1014 – Portrayal of VTS Information and Data.

The Council approved the IALA Guideline G1130 – VTS Information Exchange with Allied or other Services.

The Council approved the IALA Guideline G1131 – Setting and Measuring VTS Objectives.

The Council approved the IALA Guideline G1132 – VTS VHF Voice Communication.

The Council approved the IALA Guideline G1127 – Systems and Services for High-accuracy Positioning and Ranging.

The Council approved the IALA Guideline G1128 – Specification of e-Navigation Technical Services.

The Council approved the IALA Guideline G1129 – The Retransmission of SBAS Corrections Using MF RB and AIS.

The Council approved the IALA Guideline G1117 – VHF Data Exchange System (VDES) Overview.

The Council approved the annexes to IALA Guideline G1106:

- 1106-1 – IALA Product Specification Template
- 1106-2 – Proposal for Additional S-100 Feature Concept Dictionary Item – Template
- 1106-3 – Product Specification under Development - Template

The Council approved the IALA Guideline G1139 – Technical Specification of VDES.

The Council approved the IALA Marine Radio Communications Plan (MRCP) Ed.3.

The Council approved the revised VDES FAQs.

The Council approved the submission to NCSR5 on the IALA Maritime Radio Communications Plan (MRCP) Ed.3.

The Council approved the forwarding of the Comment paper to IMO NCSR5.

The Council approved the submission of the liaison note to IHO S100 WG and NIPWG on S-100 on-line data exchange and its supporting documents.

The Council approved the submission of the liaison note to IEC regarding VDES specification.

The Council approved the submission of the draft revision of Recommendation ITU-R M.2092-0 to ITU.

The Council approved the submission of a liaison note on MSPs to IHO, IMPA, WMO, IMRF and IHMA.

The Council approve the withdrawal of IALA Recommendation P-137 – Quality Management Systems for Competent Pilotage Authorities.

The Council endorsed the approval of national membership for:

- Ministry of Communication of Qatar

The Council endorsed the approval of industrial membership for:

- M/S Navaid Energy Private Limited, India
- IRM Offshore and Marine Engineers Pvt.Ltd., India
- PMS Polietilen Mam San.Tic.A.S, Turkey

The Council endorsed the approval of associate membership for:

- Korean Register of Shipping, Republic of Korea
- SSPA Sweden AB, Sweden

The Council approved the applications for Industrial membership of:

- Shanghai Spaceflight Institute of TT & C and Telecommunication, People's Republic of China.
- Zhejiang Space-Iching Science and Technology Co, Ltd., People's Republic of China
- Wenzhou Lighthouse Electronic Technology Co., Ltd, People's Republic of China
- BoLooMo International Group, Ltd, People's Republic of China
- Continental Shipyards Ltd., Nigeria
- Depasa Marine International Ltd., Nigeria
- Dorrana Nigeria Ltd., Nigeria

The Council approved the applications for Industrial membership, subject to confirmation by China MSA, of:

- Langfang AtoN Ltd., People's Republic of China

The Council approved the application for membership of PT Alinda Nusantara, Indonesia, provided that they join as Industrial member.

The Council approved for Associate membership of:

- National Geospatial Intelligence Agency, USA

The Council approved the applications for Associate membership, subject to confirmation by China MSA, of:

- National Mobile Communications Research Laboratory, Southeast University, People's Republic of China

The Council reinstated the following members:

- Corilla Plastics, United Kingdom, Industrial member.
- Instituto de Canalizaciones, Venezuela, Associate member.

The Council terminated associate membership of Direccion de Vias Navegables, Argentina, and Centre National d'Information et de Documentation Maritime, Republic of Congo.

The Council approved the transfer of Industrial membership of Signalis (Germany) onto Airbus Defence and Space SAS (France).





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